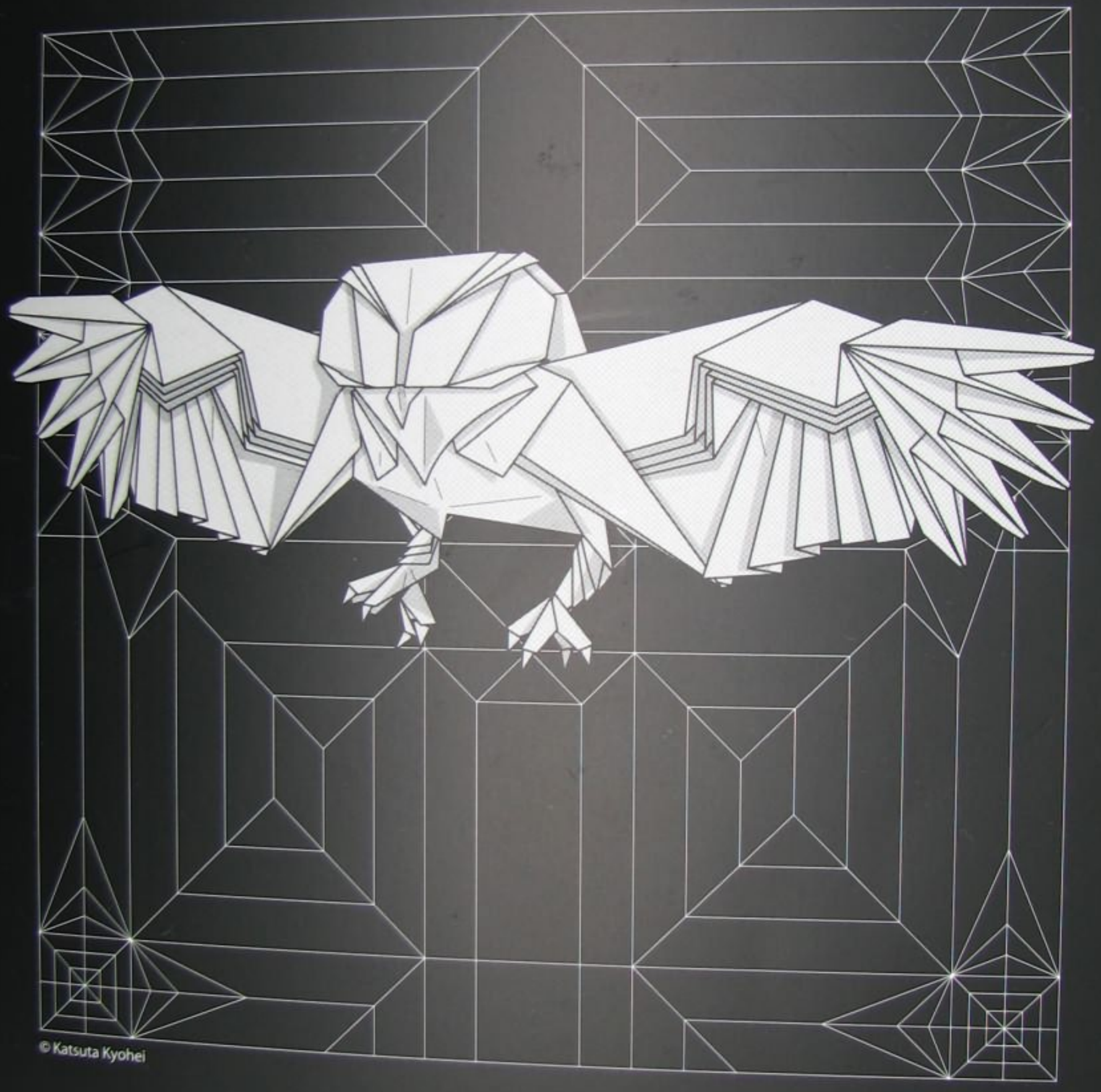
ORIGAMI TANTEIDAN 17th CONVENTION

第17回

# 折紙探偵団コンベンション



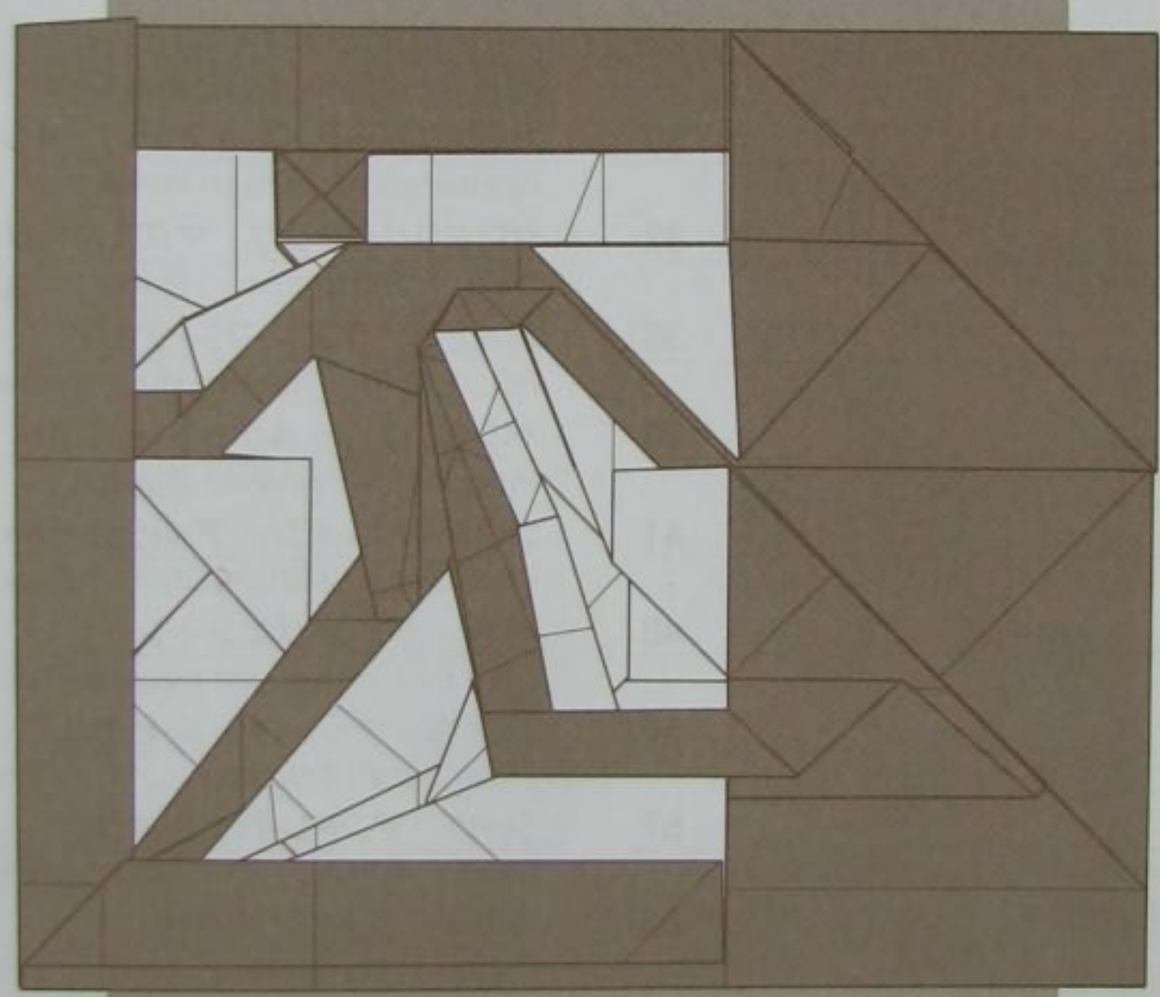

# 折り図集

## Vol.17

発行・日本折紙学会

17th Origami Tanteidan Convention

# 第17回 折紙探偵団 コンベンション



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# 折り図集 Vol. 17

発行・日本折紙学会

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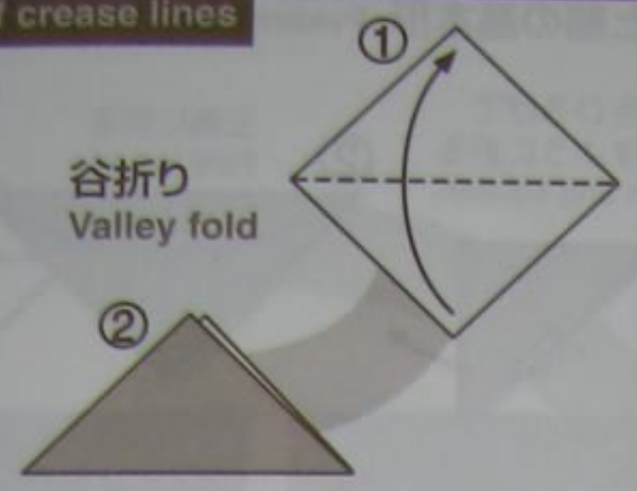
# 折り図記号 Symbols for Folding

## 折り線の種類 Types of crease lines

谷折り線 Valley fold

手前に折る
Fold paper forwards

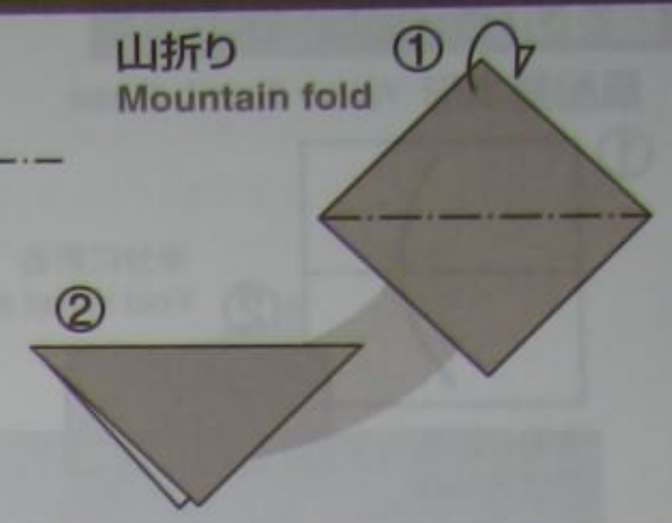
谷折り
Valley fold




山折り線
Mountain fold

後ろへ折る
Fold paper backwards

山折り
Mountain fold



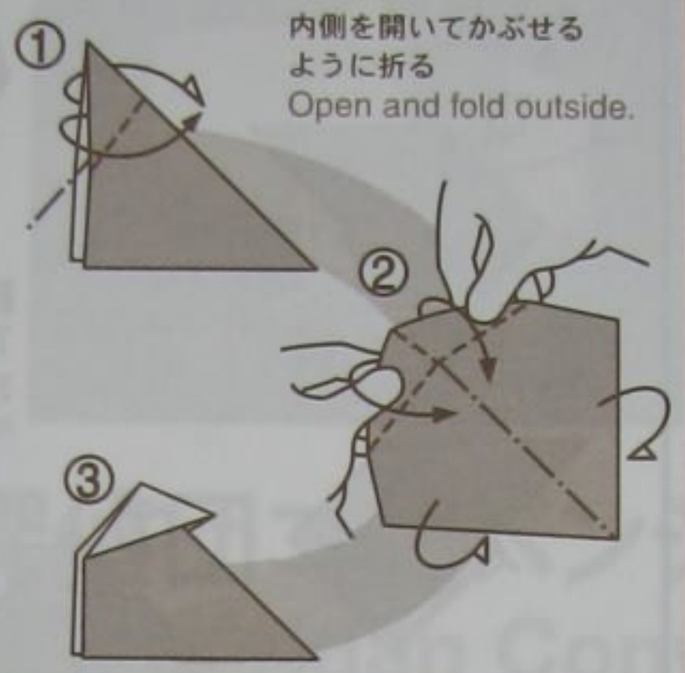

## 折り方の技法 Basic Folding Skills

### 中わり折り Inside-reverse fold

内側を割るようにして
カドを出すように折る
Push the corner in the middle.

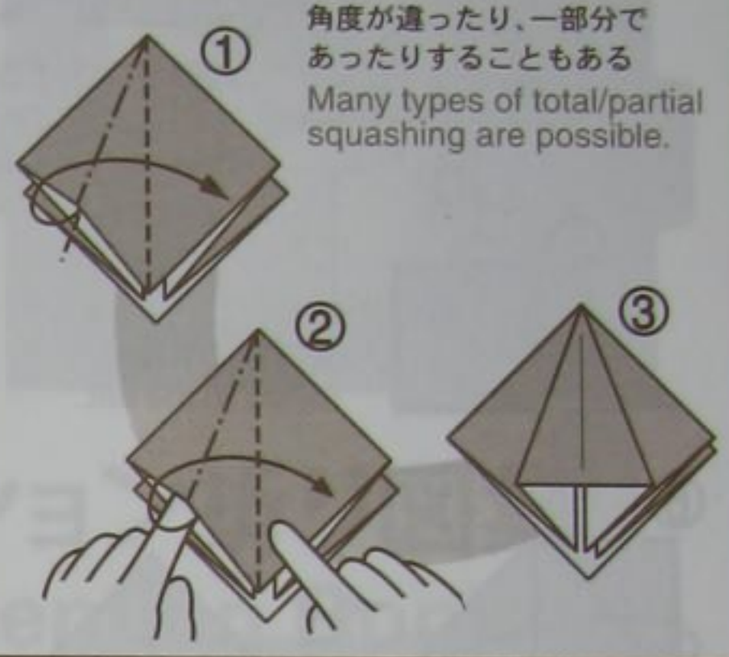
### かぶせ折り Outside-reverse fold

内側を開いてかぶせる
ように折る
Open and fold outside.




### 内側をひろげてつぶすように折る Squash fold

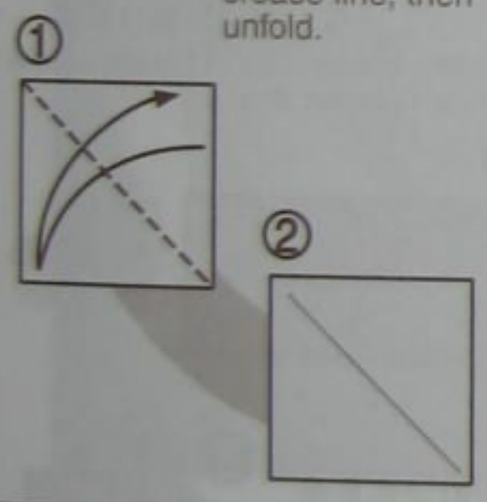
角度が違ったり、一部分で
あったりすることもある
Many types of total/partial squashing are possible.




## いろいろな記号 Symbols

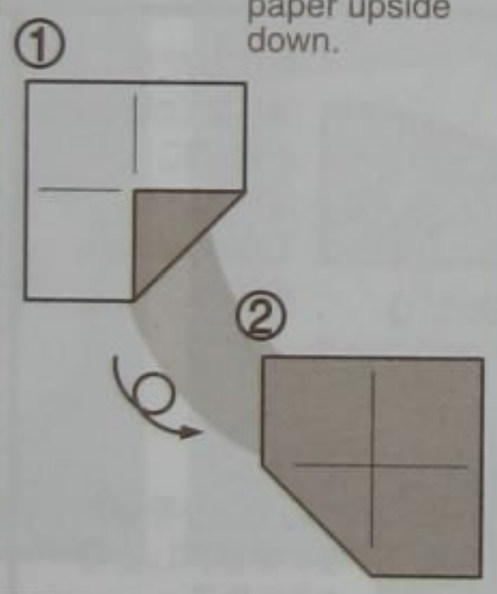
### 折り筋をつける Making a crease line

一度折ってから戻して
折り筋をつける
Fold and mark a crease line, then unfold.



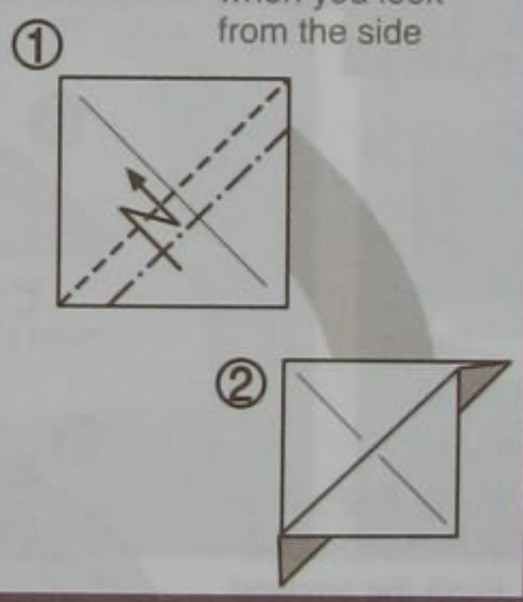

### 裏返す Turn paper over

おりがみを裏返す
上下の位置は
変わらない
Don't rotate the paper upside down.

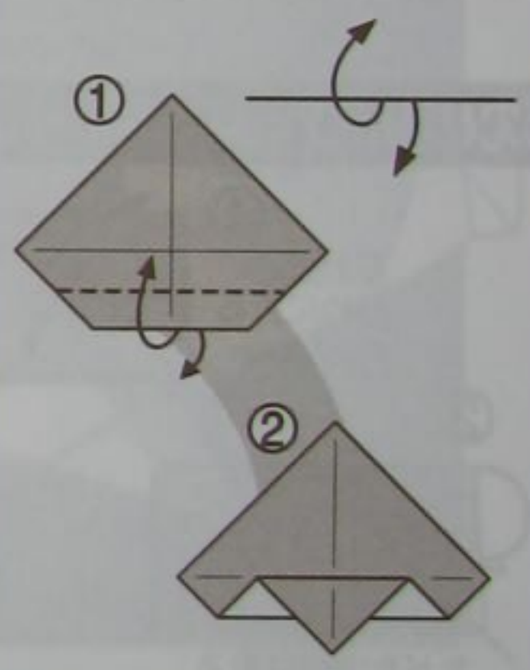



### 段折り Pleat fold

横から見ると
段になっている
ように見える
Pleats are formed when you look from the side




### 下の部分を出すように折る Release bottom flap when making a fold




次の図が
大きくなる
A magnified view

仮想線・透視線
A hidden line

押す・つぶす
Push paper in

引き出す
Pull out

ひろげる Open up

○と○を
合わせて折る
Match circled points

巻くように折る
Roll the flap by repeated folds

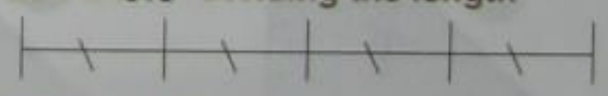
注意するところ
Marked points
☆ ★

### 次の図の見る位置が変わる
Paper position changes (rotation)

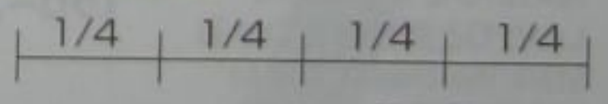
視点が大きく変わる場合
この記号の位置から見る
The viewpoint shifts to this position.

### 等分記号 Division

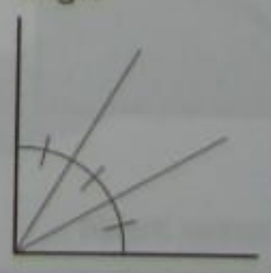
長さの等分 Dividing the length



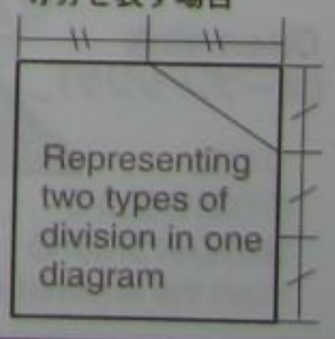
数字で表す場合もある
The ratio is often represented with numbers.




角度の等分
Dividing the angle



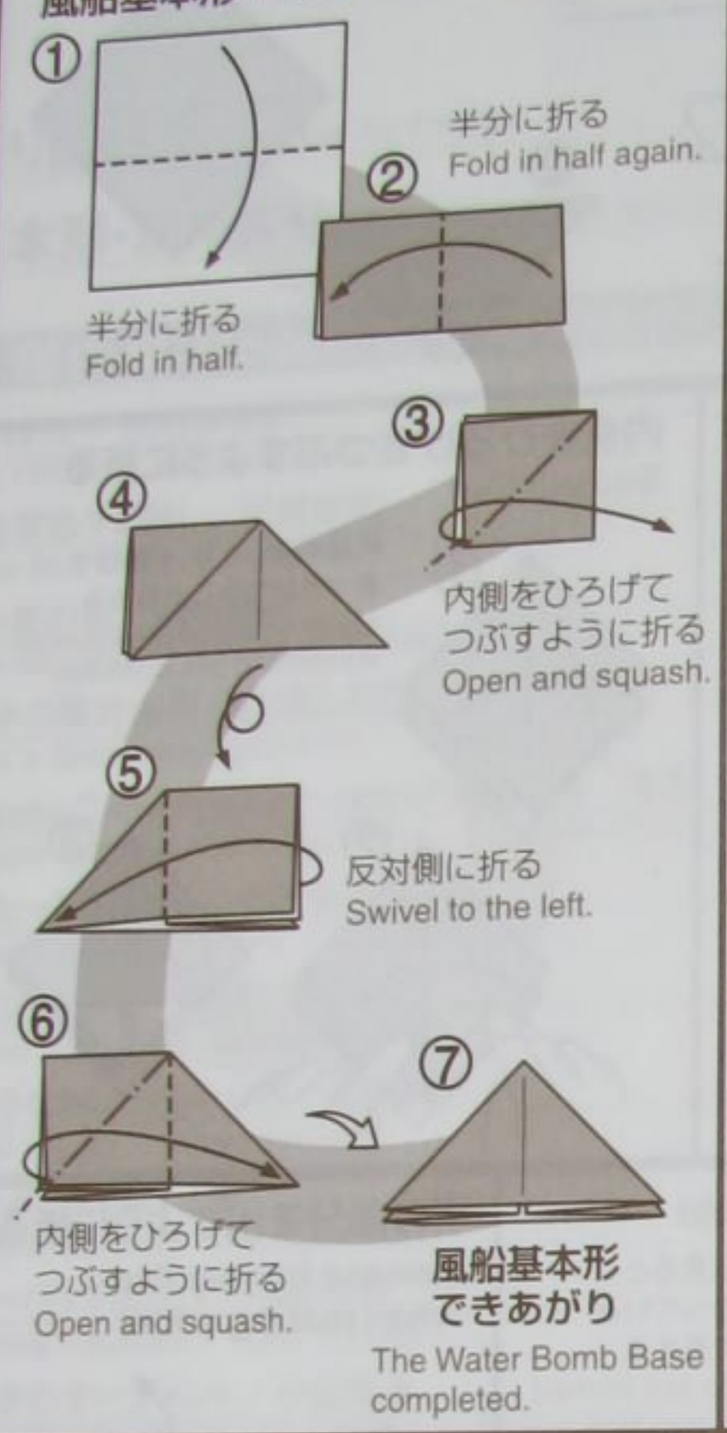
1つの図で2種類の
等分を表す場合



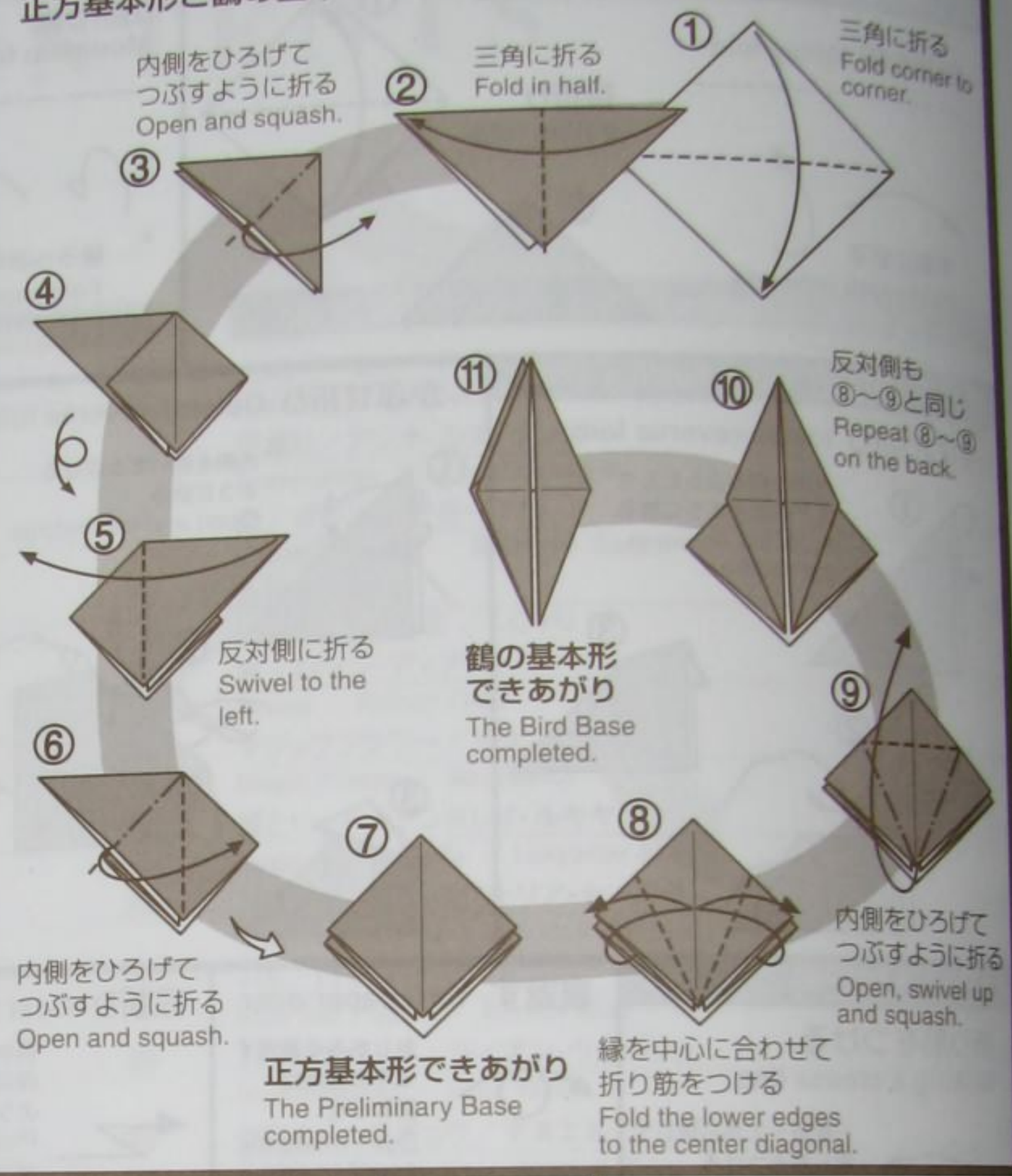
# 基本形／沈め折り Preliminary Bases and Sink

## 基本形 Preliminary bases

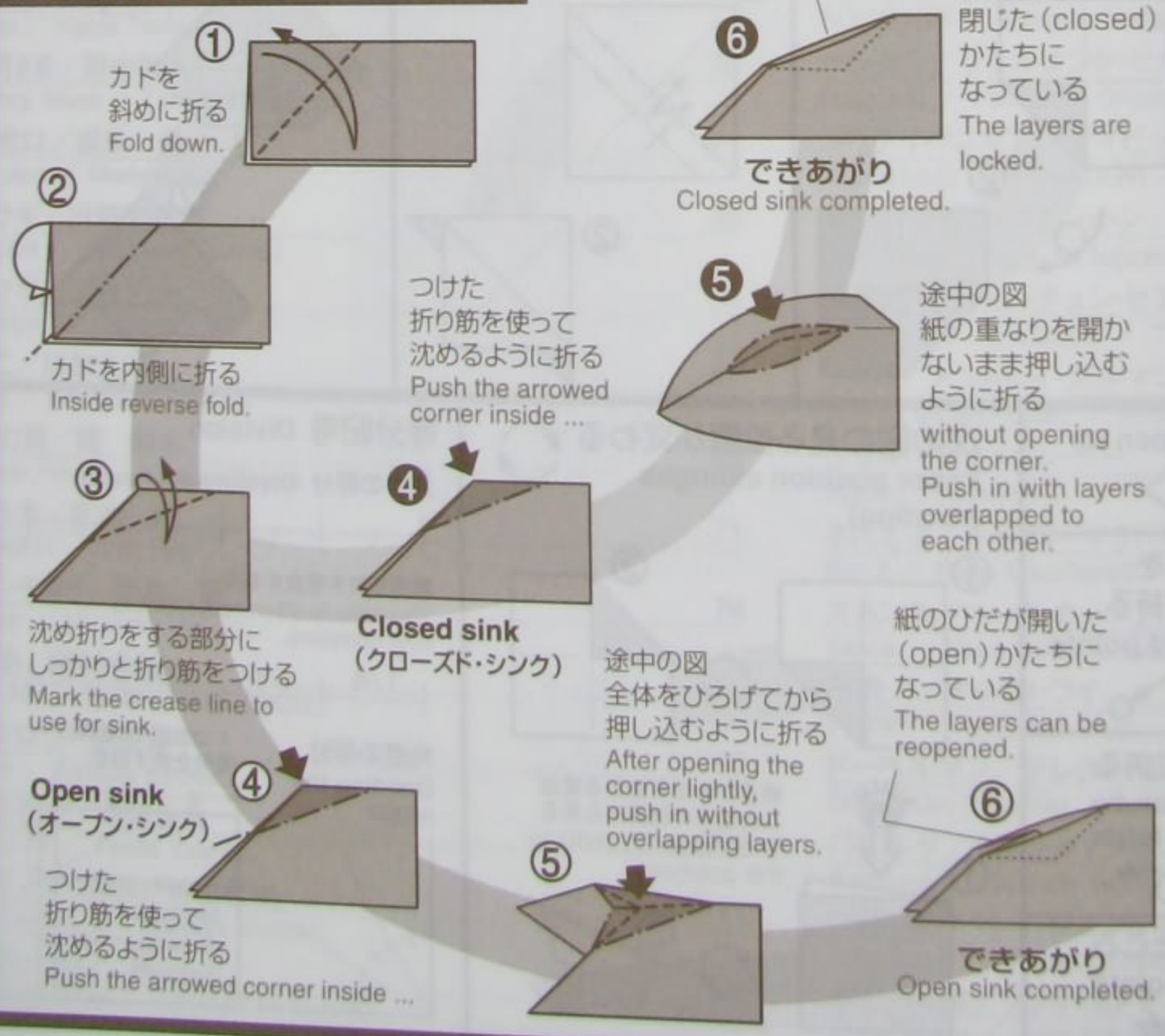
### 風船基本形 Water Bomb Base



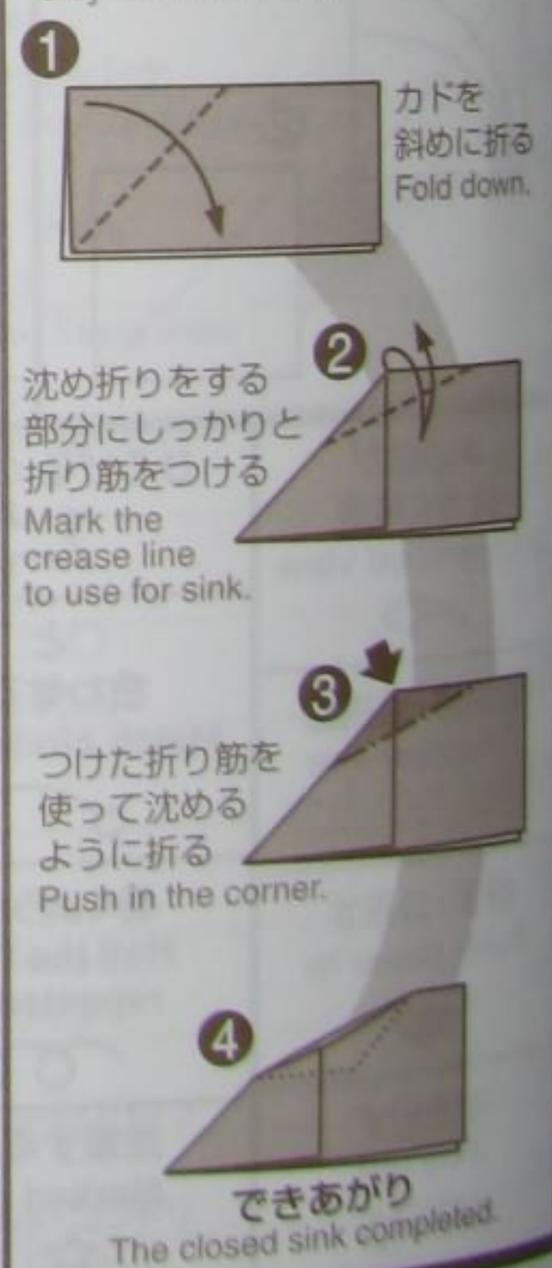

### 正方基本形と鶴の基本形 Preliminary Base / Bird Base



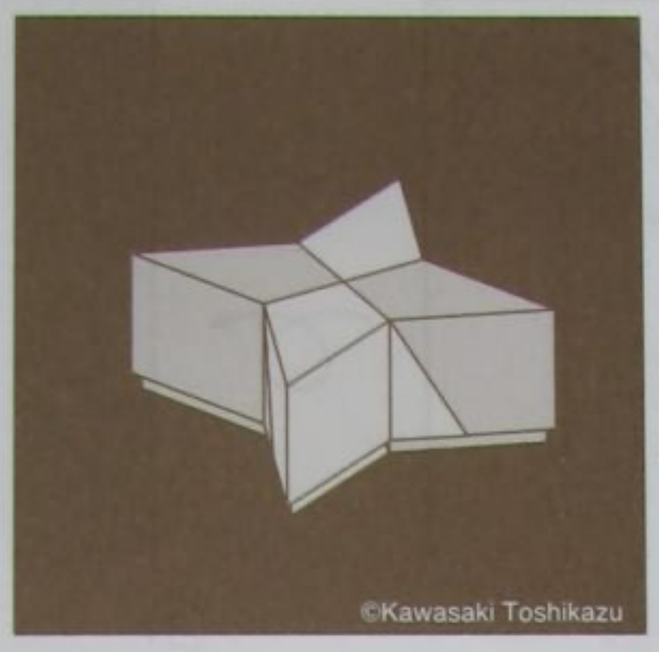

## 沈め折り Open sink / Closed sink

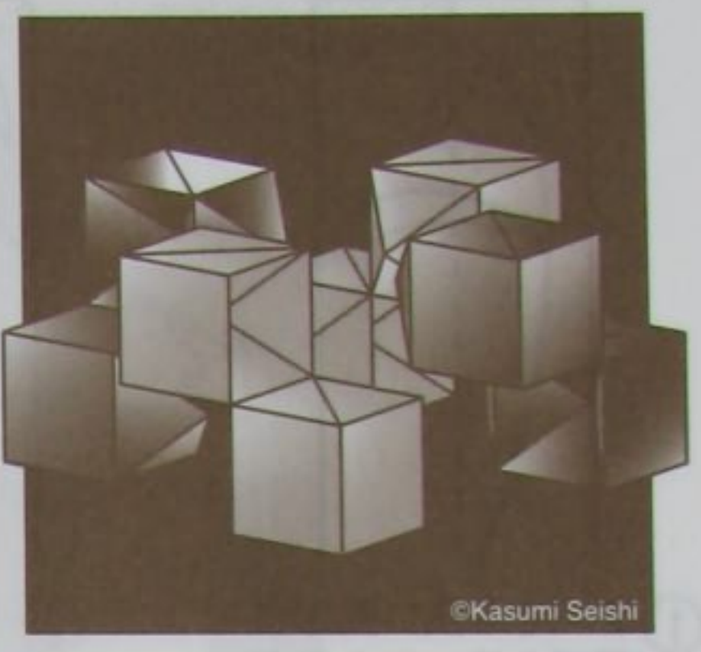



ひだの形によってはclosed sink
にしかできない場合もあります
Certain complexes of layers allows only for closed sink.



©Kawamura Miyuki


©Kawasaki Toshikazu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# 第17回折紙探偵団コンベンション折り図集

## 17th Origami Tanteidan Convention Book

### 国内編／Models by Japanese Folders

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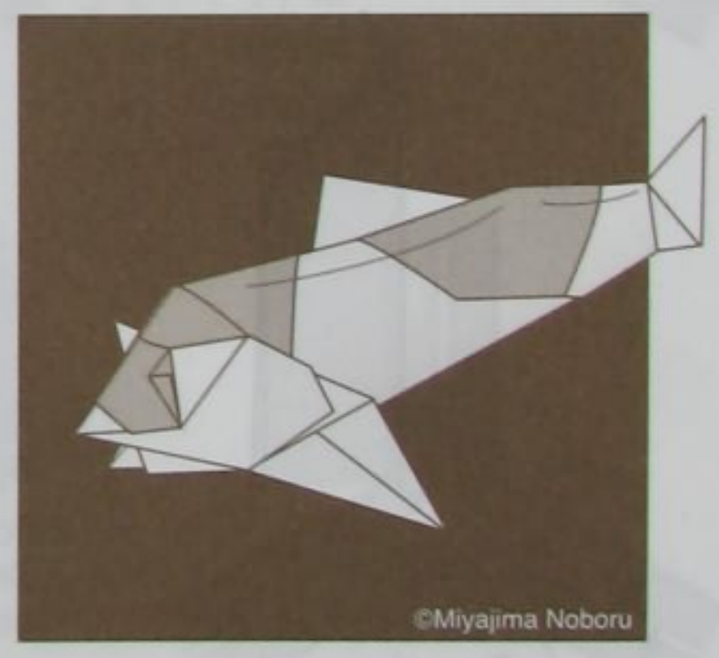
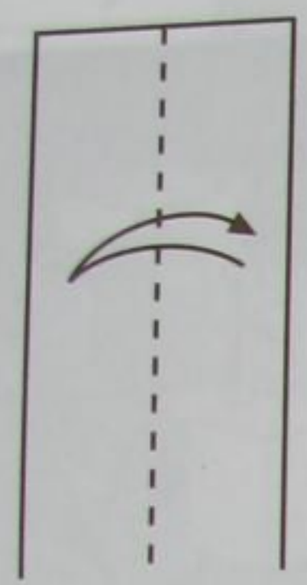

©Miyajima Noboru

Design : 20110507

# ポリロッド
# POLYROD

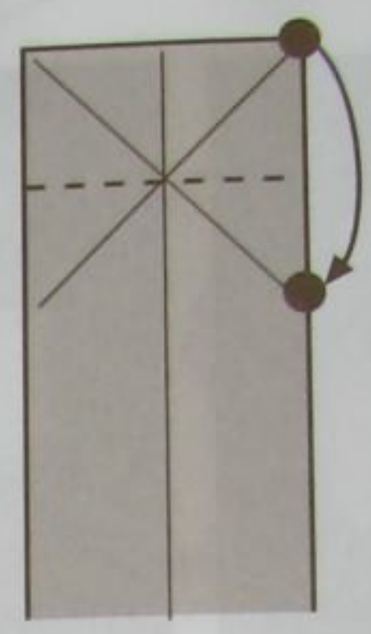
©2011 Miyuki Kawamura
川村みゆき

胴体の部分は紙のハリを利用して膨らませると綺麗にできます。ツルの背中を膨らませる要領に似ています。
To make tube good shape, use tension of paper. It is similar to make a back of crane.

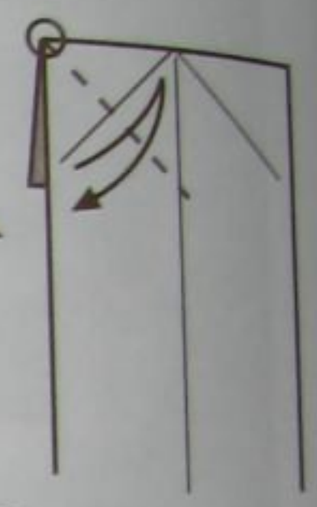


① 2:1より長い長方形用紙を使います。下側も同様に折っていきます。
Use a rectangular paper longer than 2:1. Do the same steps on the other end.

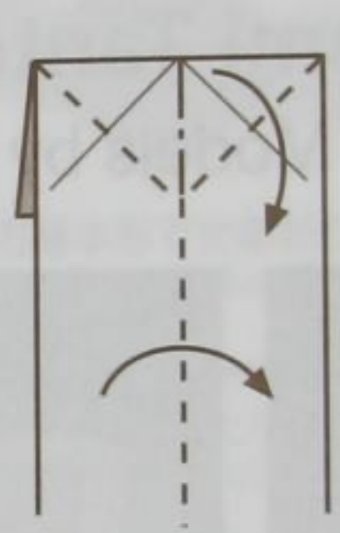
②



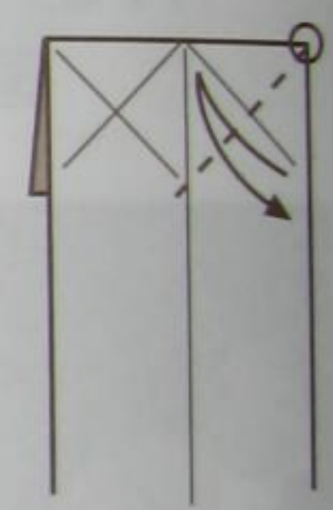
③



④ 1枚だけ折る
Fold only the upper layer and unfold.



⑥ 平らにたたむ。
Fold into flat.

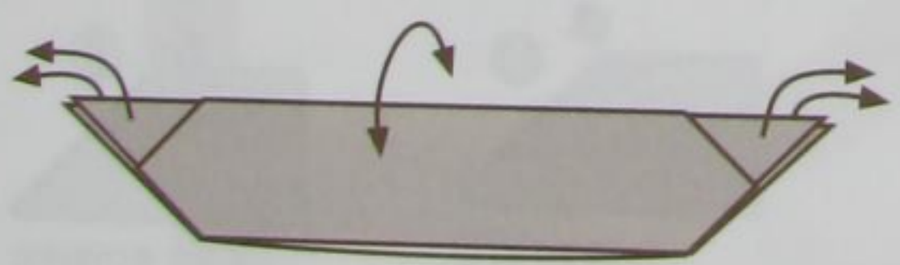


⑤ 1枚だけ折る
Fold only the upper layer and unfold.

⑦ カドを中へ折り込む。向こう側も同じ。
Fold corner down. Do the same on the other corner.

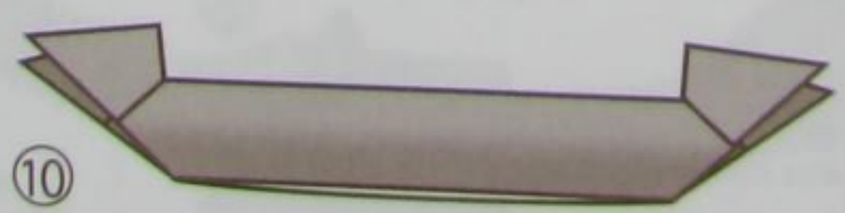
⑧

向きを変える
Turn the model.



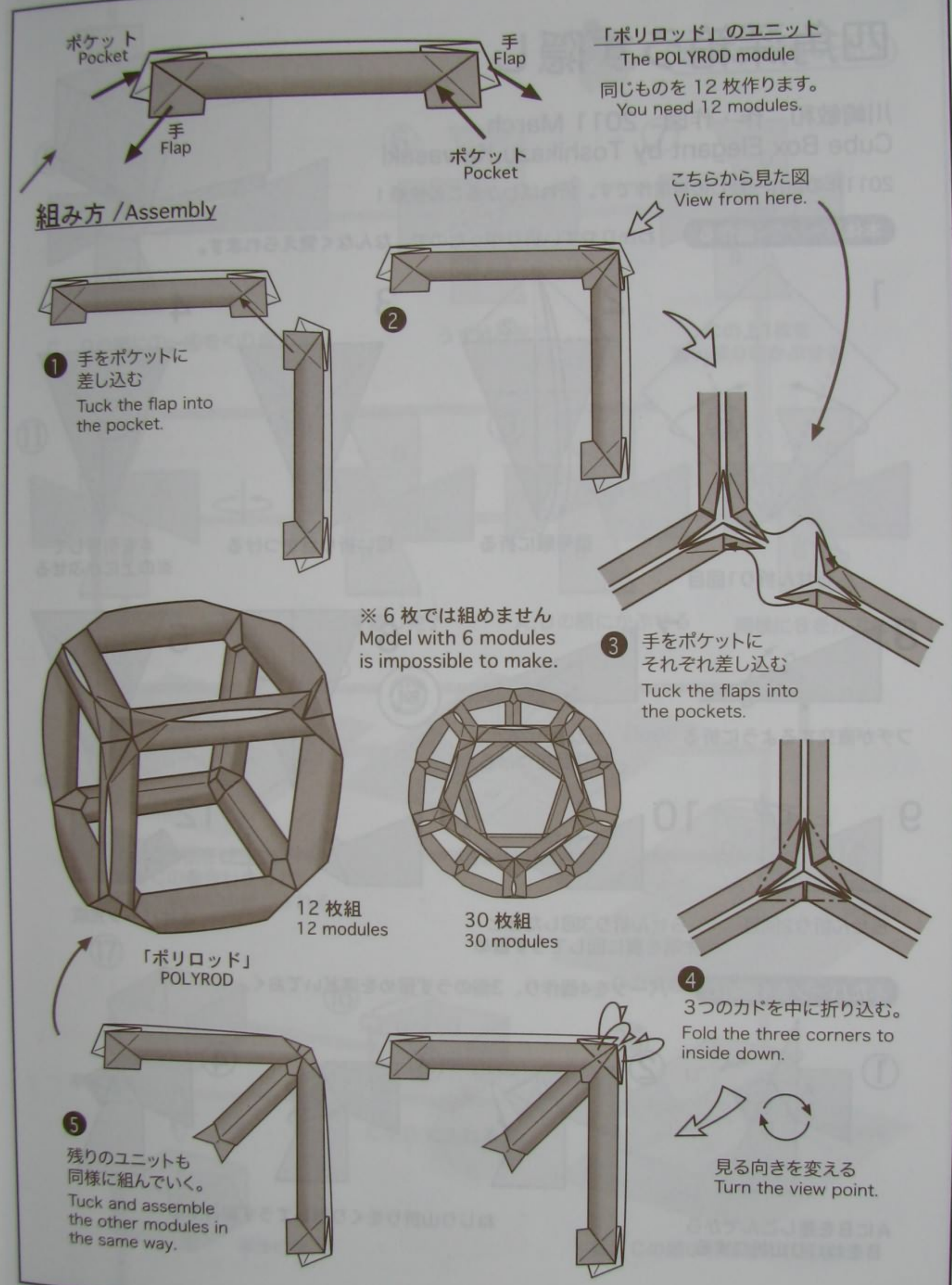
⑨ 4枚のカドを引き下げながら胴体の部分を筒状にふくらませる。
Pull the four flaps down, and make a tube.

⑪ 折り込んだカドを4つとも引き出す。胴体部分をつぶさないように注意。
Unfold the four corners. Don't squash the tube.

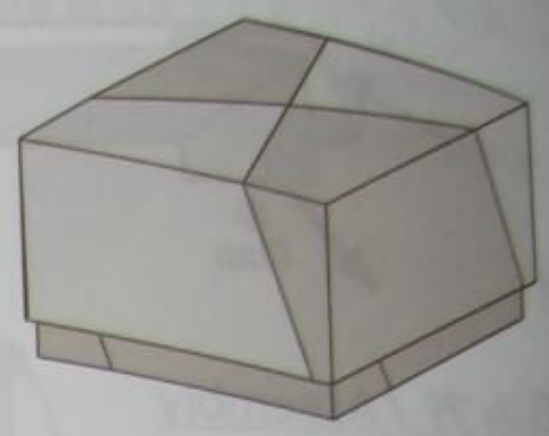


⑩

向きを変える
Turn the model.


ポケット
Pocket
手
Flap
手
Flap
ポケット
Pocket
「ポリロッド」のユニット
The POLYROD module
同じものを 12 枚作ります。
You need 12 modules.
組み方 /Assembly
こちらから見た図
View from here.
❶ 手をポケットに
差し込む
Tuck the flap into
the pocket.
❷
❸ 手をポケットに
それぞれ差し込む
Tuck the flaps into
the pockets.
※ 6 枚では組めません
Model with 6 modules
is impossible to make.
12 枚組
12 modules
30 枚組
30 modules
「ポリロッド」
POLYROD
❹
3つのカドを中に折り込む。
Fold the three corners to
inside down.
❺
残りのユニットも
同様に組んでいく。
Tuck and assemble
the other modules in
the same way.
見る向きを変える
Turn the view point.

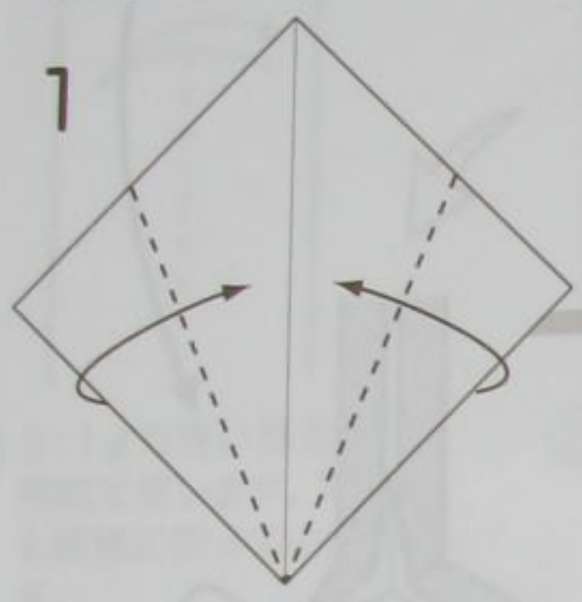
# 四角深箱うず隠し



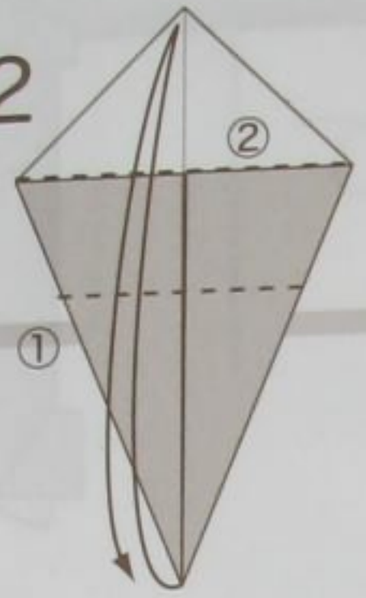
川崎敏和　作・作図　2011 March
Cube Box Elegant by Toshikazu Kawasaki

2011年の新作一押しの自信作です。折ればわかるこの快感！

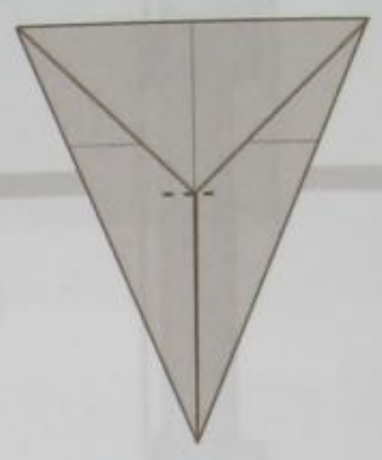
**本体パーツを4個作る**　わかりやすい折り作ったので、なんなく覚えられます。



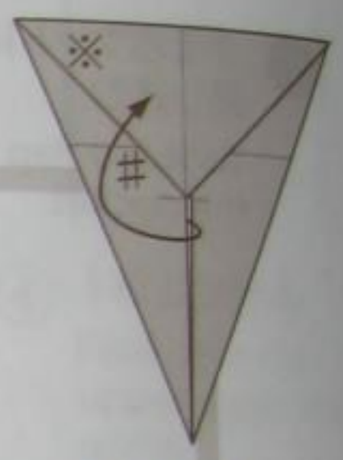
1
らせん折り1回目



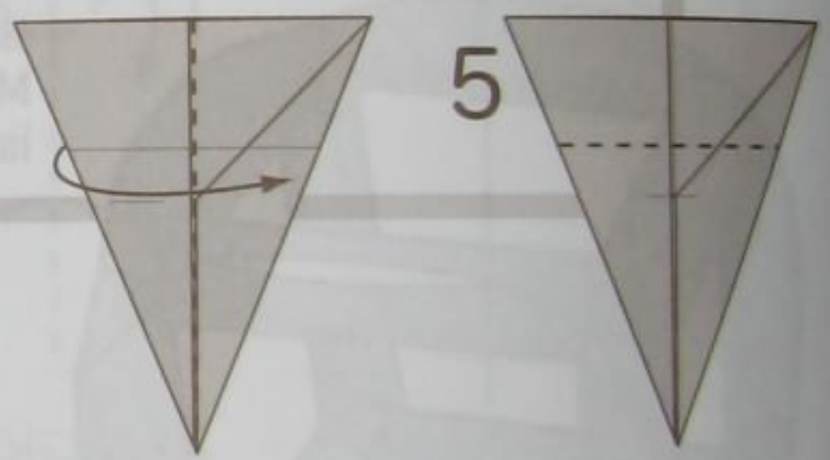

2
番号順に折る



3
短い折り目をつける

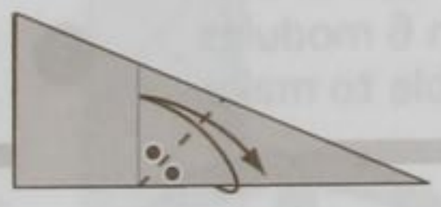



4
#を引きして
※の上にかぶせる

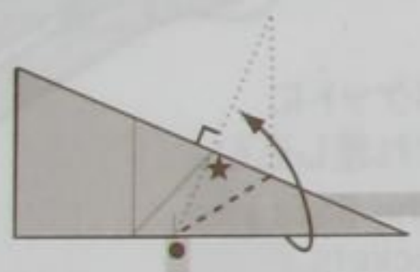


5

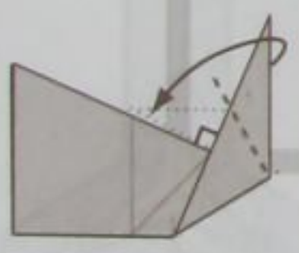
6



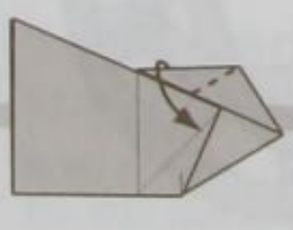
7
ななめ45度に
折り目をつける



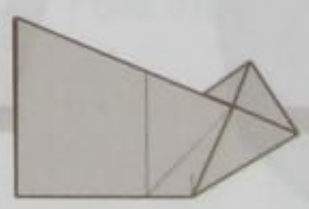
8
フチが直交するように折る



9
らせん折り2回目



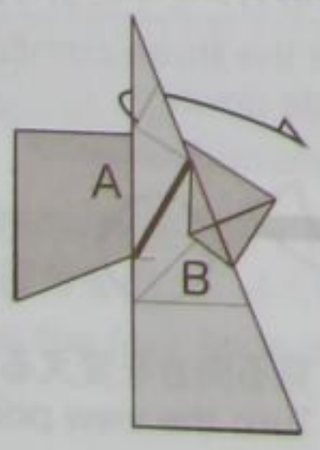
10
らせん折り3回したあと
先端を裏に回してうず留め



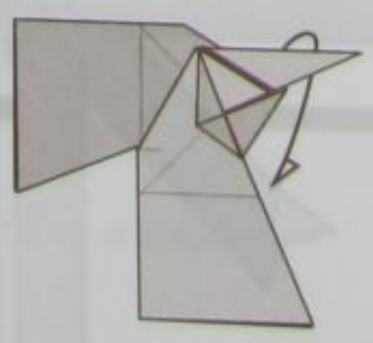
11

12
本体パーツ完成

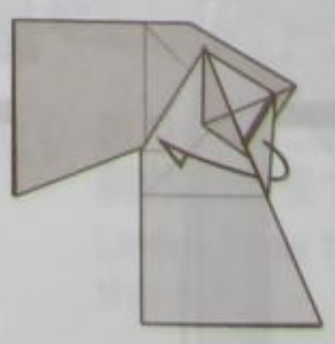
**ふたパーツを4個組む**　パーツを4個作り、3個のうず留めをほどいておく。



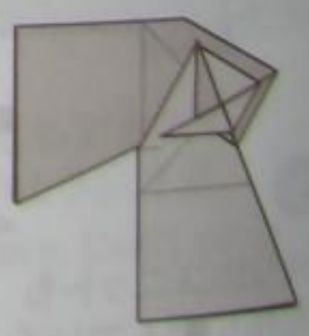

①
AにBを差しこんでから
Bをねじり山折りする



②

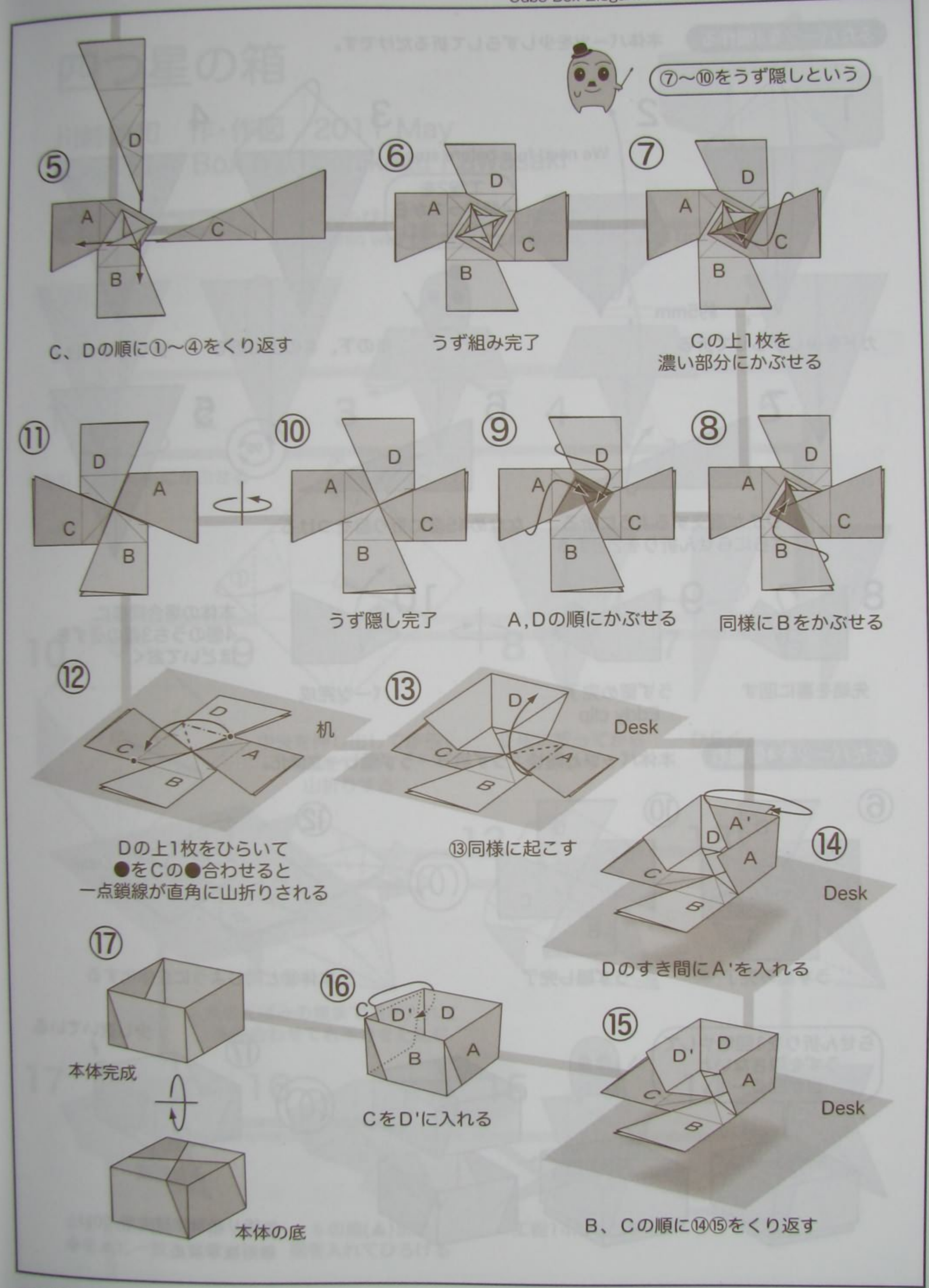


③



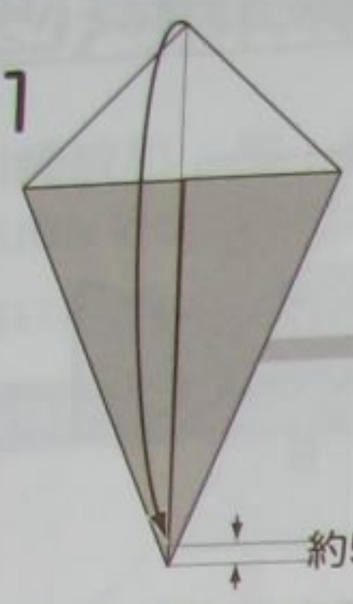
④

ねじり山折りをくり返してうず組みする


⑦～⑩をうず隠しという
⑤
D
A
C
B
C、Dの順に①～④をくり返す
⑥
D
A
C
B
うず組み完了
⑦
D
A
C
B
Cの上1枚を
濃い部分にかぶせる
⑪
D
A
C
B
⑩
D
A
C
B
うず隠し完了
⑨
D
A
C
B
A,Dの順にかぶせる
⑧
D
A
C
B
同様にBをかぶせる
⑫
D
C
A
B
机
Dの上1枚をひらいて
●をCの●合わせると
一点鎖線が直角に山折りされる
⑬
D
C
A
B
Desk
⑬同様に起こす
⑭
A'
D
A
C
B
Desk
Dのすき間にA'を入れる
⑮
D'
D
A
C
B
Desk
B、Cの順に⑭⑮をくり返す
⑰
本体完成
本体の底
⑯
C
D'
D
B
A
CをD'に入れる

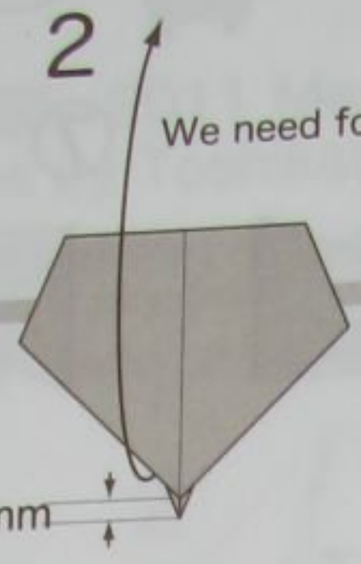
**ふたパーツを4個作る**　本体パーツを少しずらして折るだけです。

1




カドを少しずらして折る

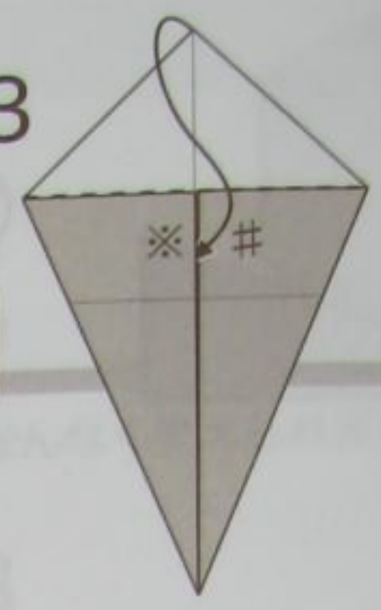
2



We need four before step 3.

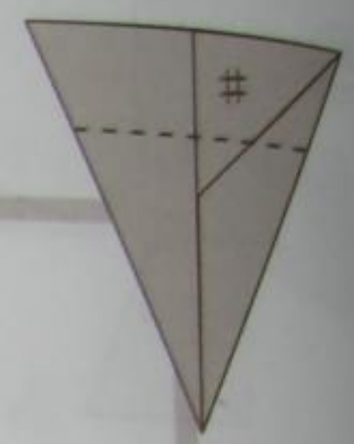
工程2を
4個作ってから
工程3に進む

3



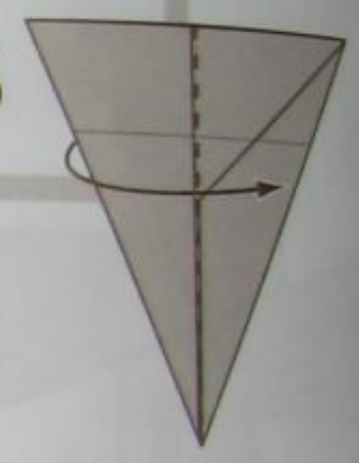

※の下、#の上に折る

4



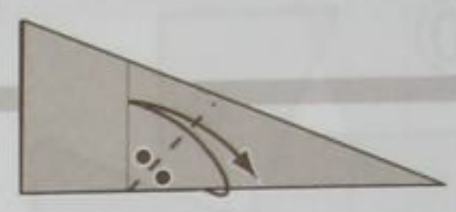

折り目をつける

5



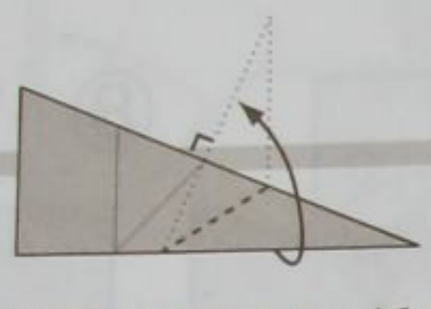
90°

6



ななめ45度に折り目をつける

7

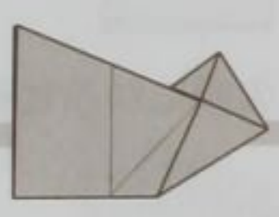


フチが直交するように折る
さらにらせん折りを2回する

8

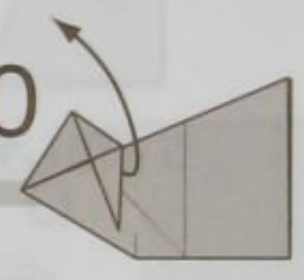
先端を裏に回す

9



うず留め完了
Eddy clip

10

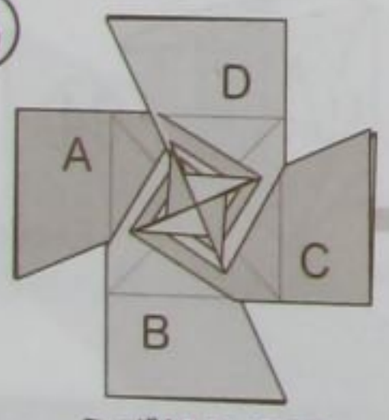


パーツ完成

本体の場合同様に
4個のうち3個のうずを
ほどいておく

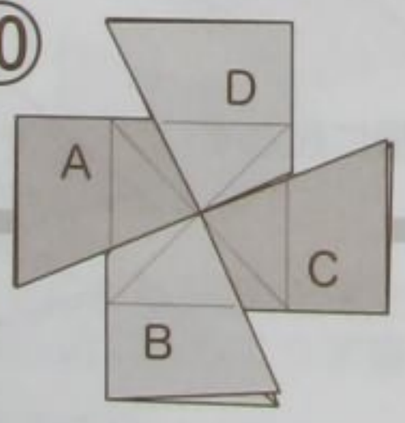
**ふたパーツを4個組む**　本体パーツと同じ：うず組み→うず隠し→立体化。

⑥



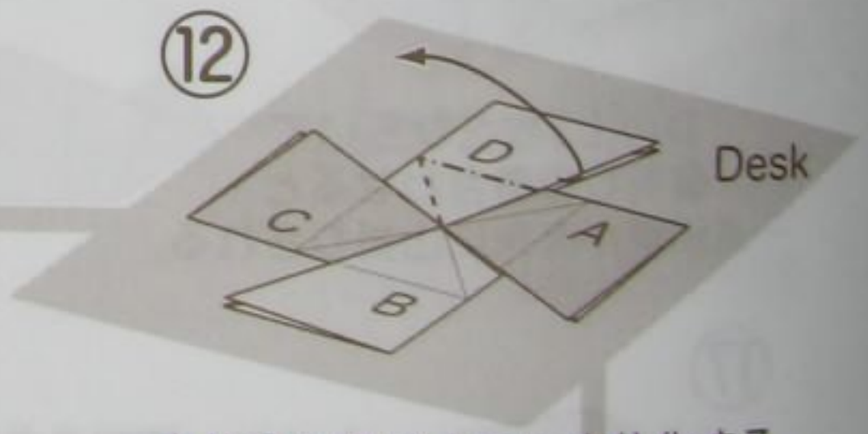

うず組み完了

⑩



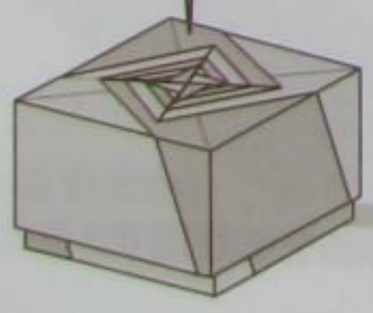

うず隠し完了

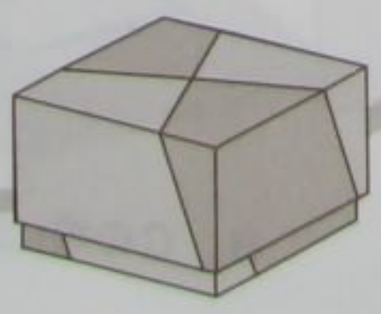
⑫

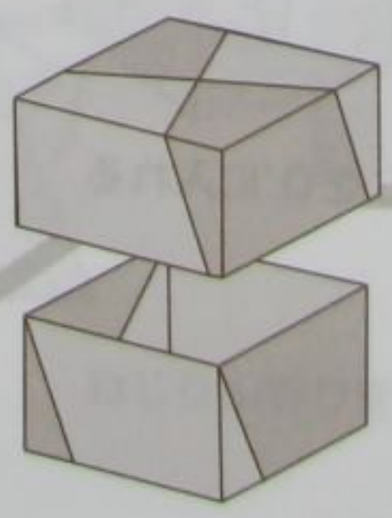



本体⑫と同じように立体化する

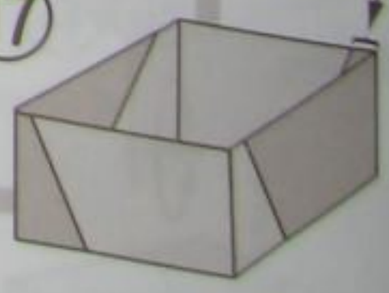
らせん折りを1回増やして
うずを隠さないと
目が回る～！







⑰




ふた完成

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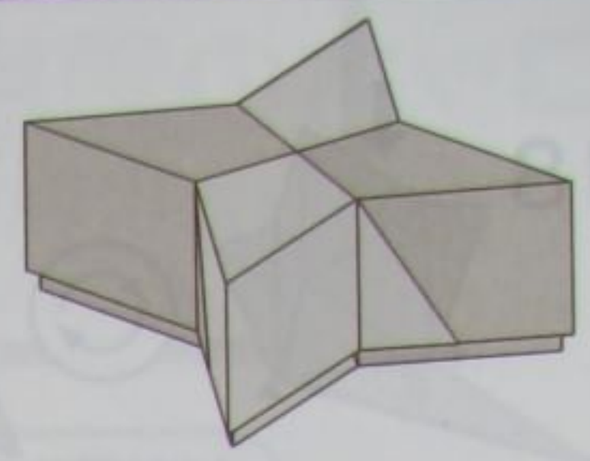
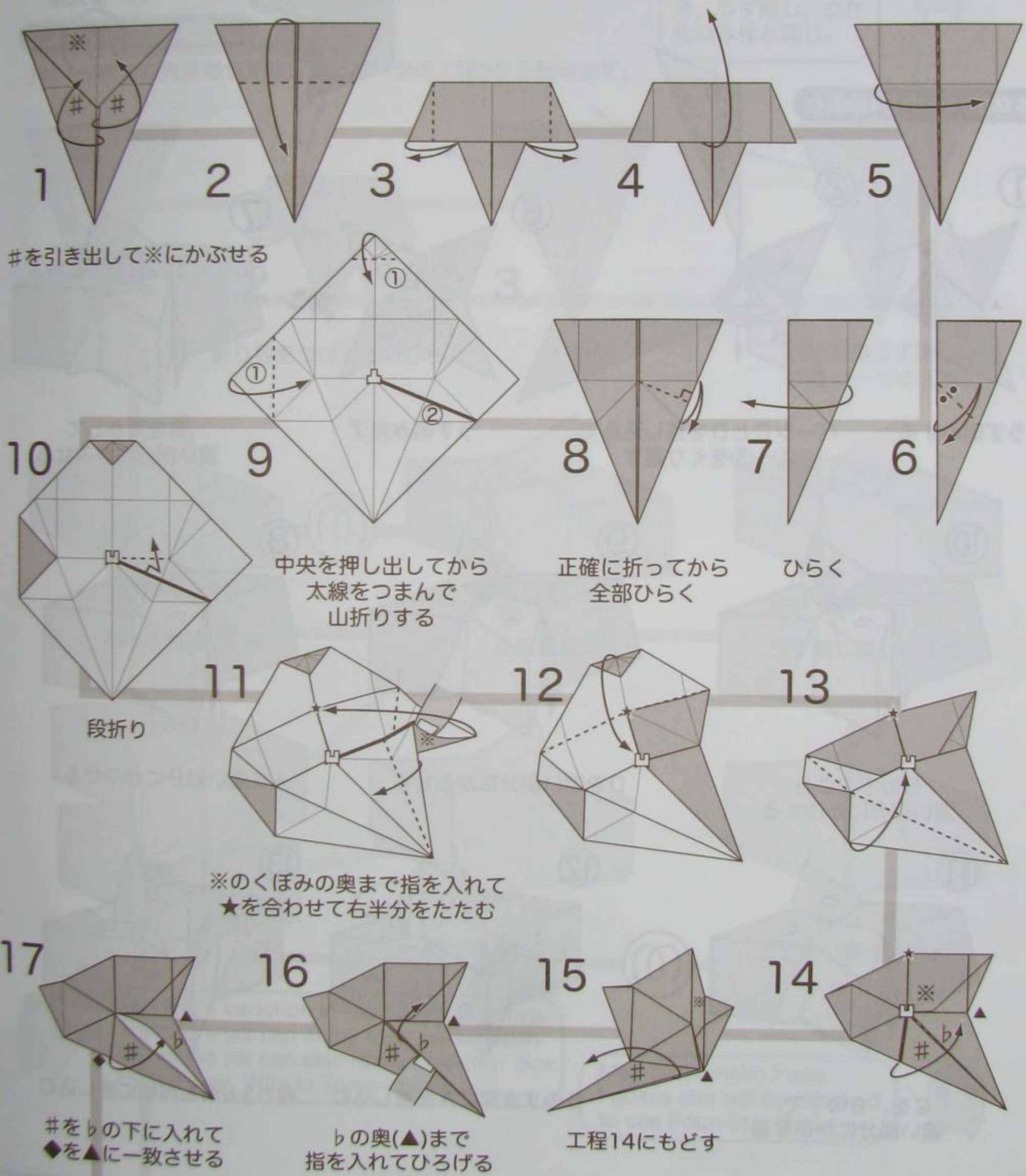
無断複写禁止

# 四つ星の箱

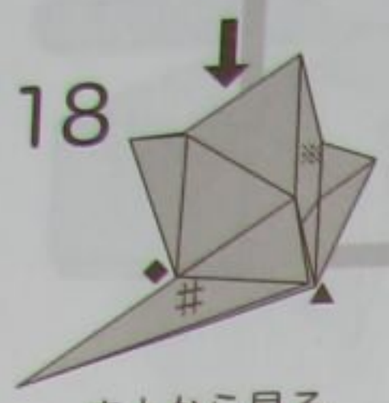
川崎敏和　作・作図　2011 May
Four-Star Box by Toshikazu Kawasaki



**本体星パーツを4個作る**　ともちんもびっくり！？星型の箱です。
Tomo-chin well be also surprised at this Star Box.

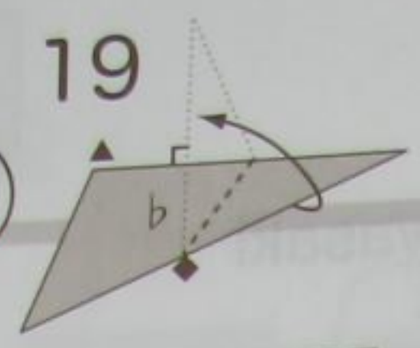


18



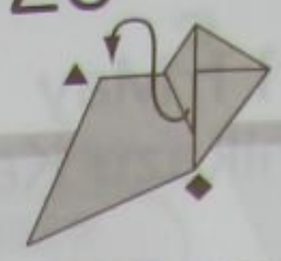
ま上から見る

19



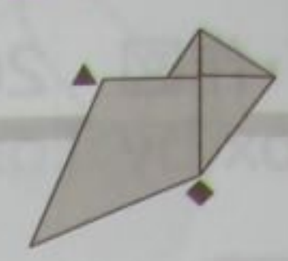

らせん折り1回目
3回らせん折りする

20



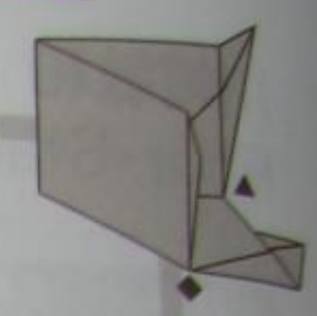
うず留めする

21

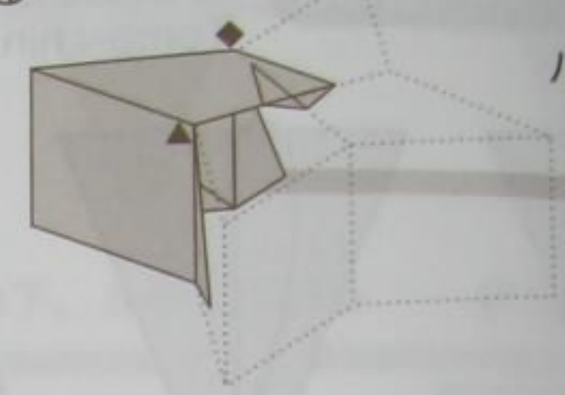


3D

22

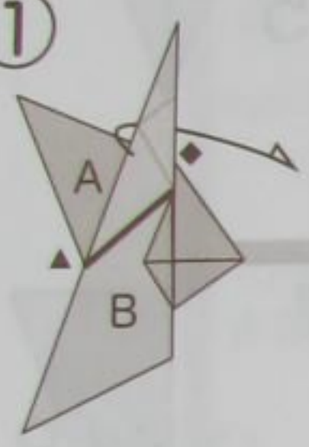


パーツ完成



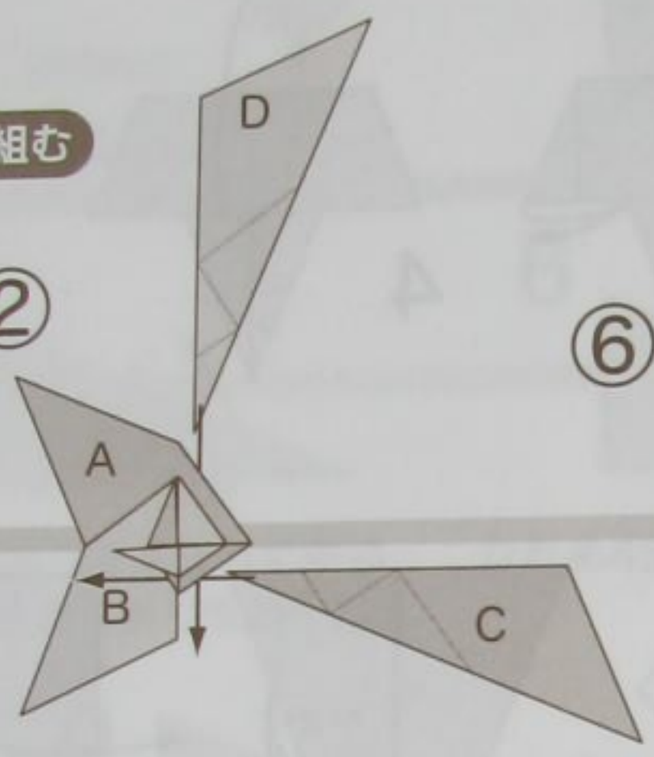
## 本体星パーツを4個組む

①



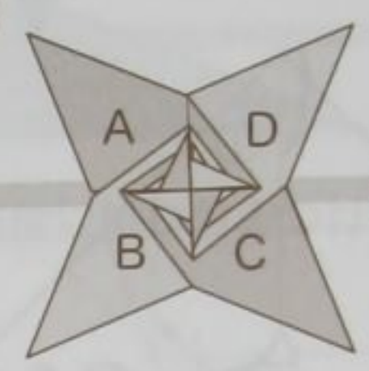

うず組みする

②




パーツCとDを差し込んで
①〜⑤をくり返す

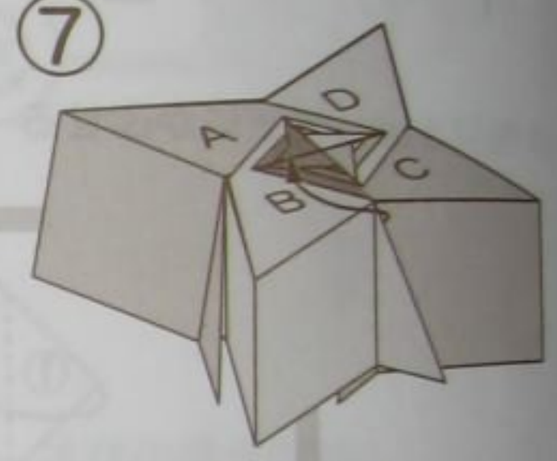
⑥




3D

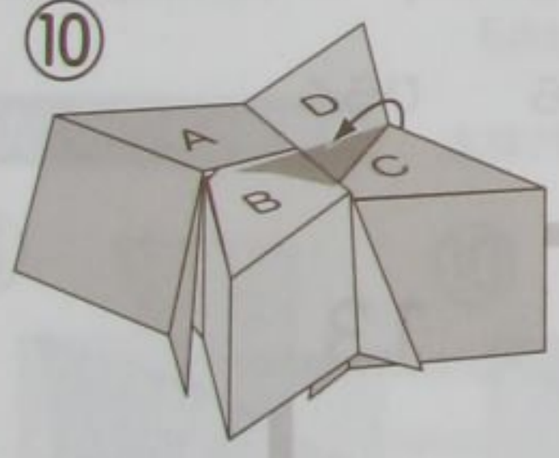
うず組み完了

⑦



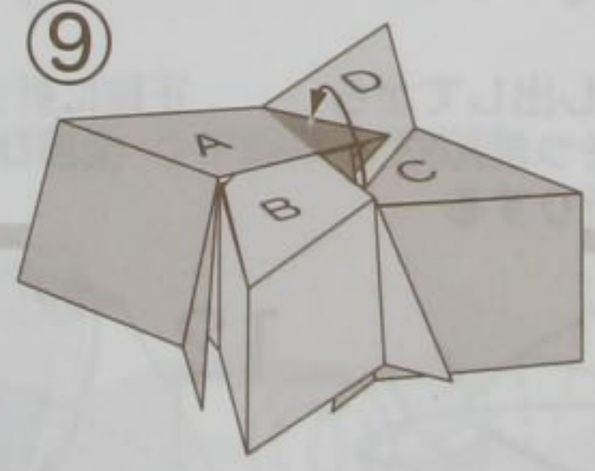

Bを浮かして
濃い部分にかぶせる

⑩



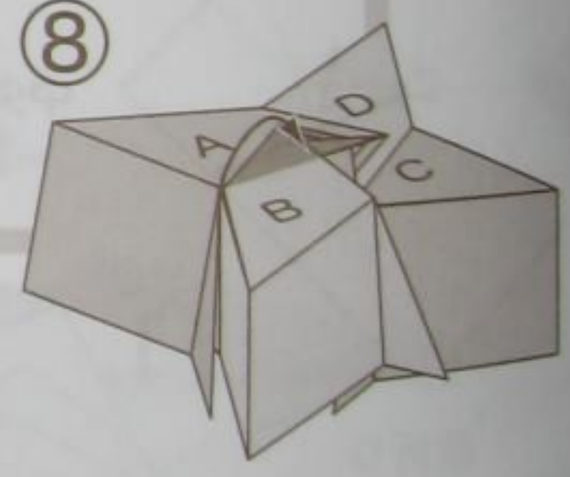

Bの下でCを
濃い部分にかぶせる

⑨



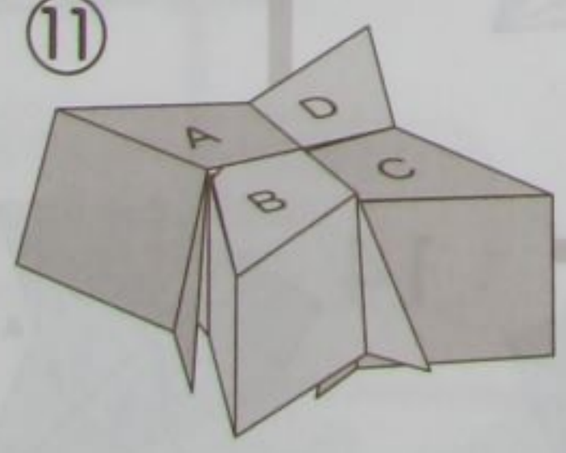

Dを濃い部分にかぶせる

⑧



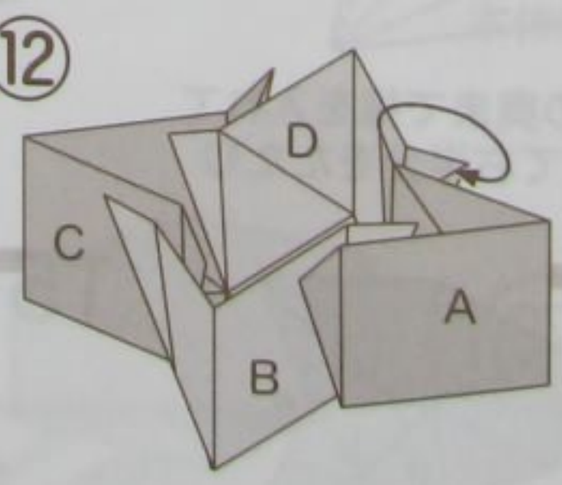

Aを濃い部分にかぶせる

⑪



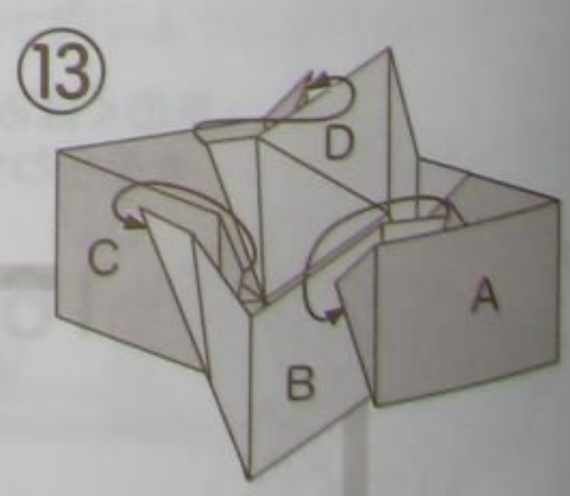

Cを、Bの下で、
濃い部分にかぶせる

⑫

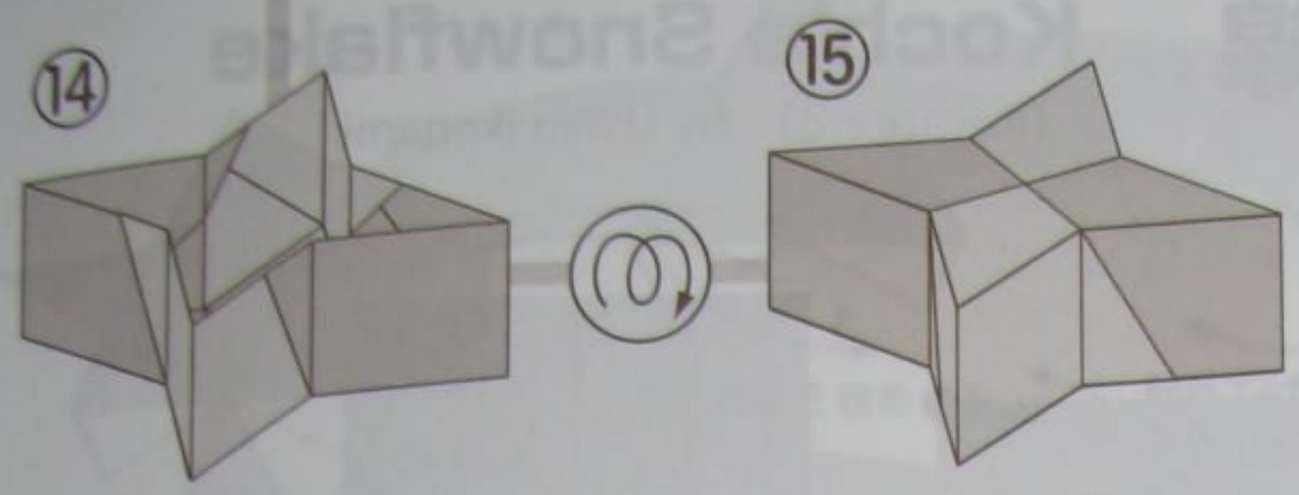



Dのすき間にAを差し込む

⑬




残り3ヵ所も同様に差し込む

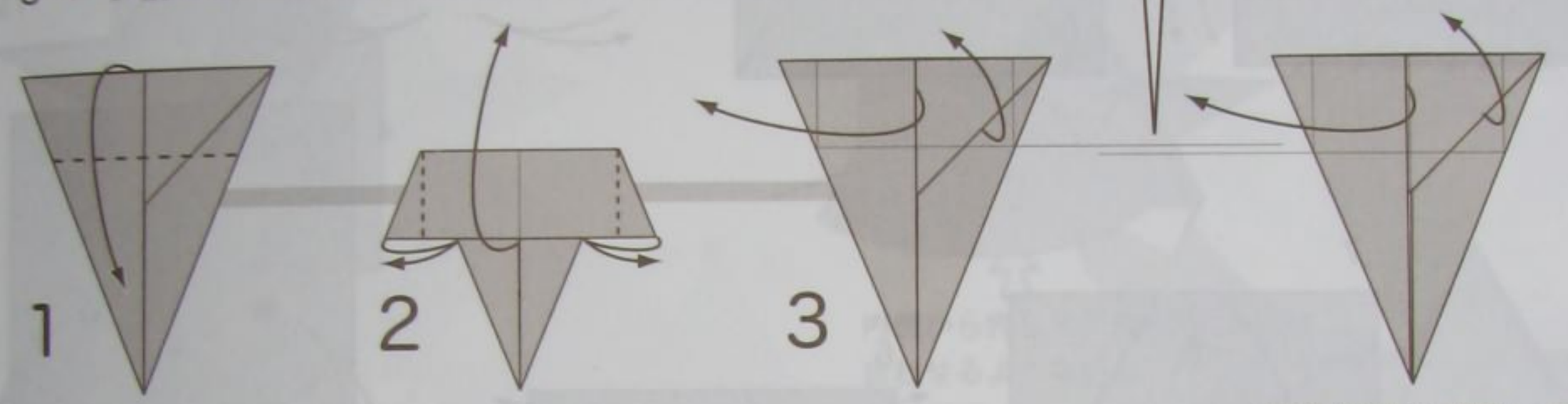



本体完成　　本体の底

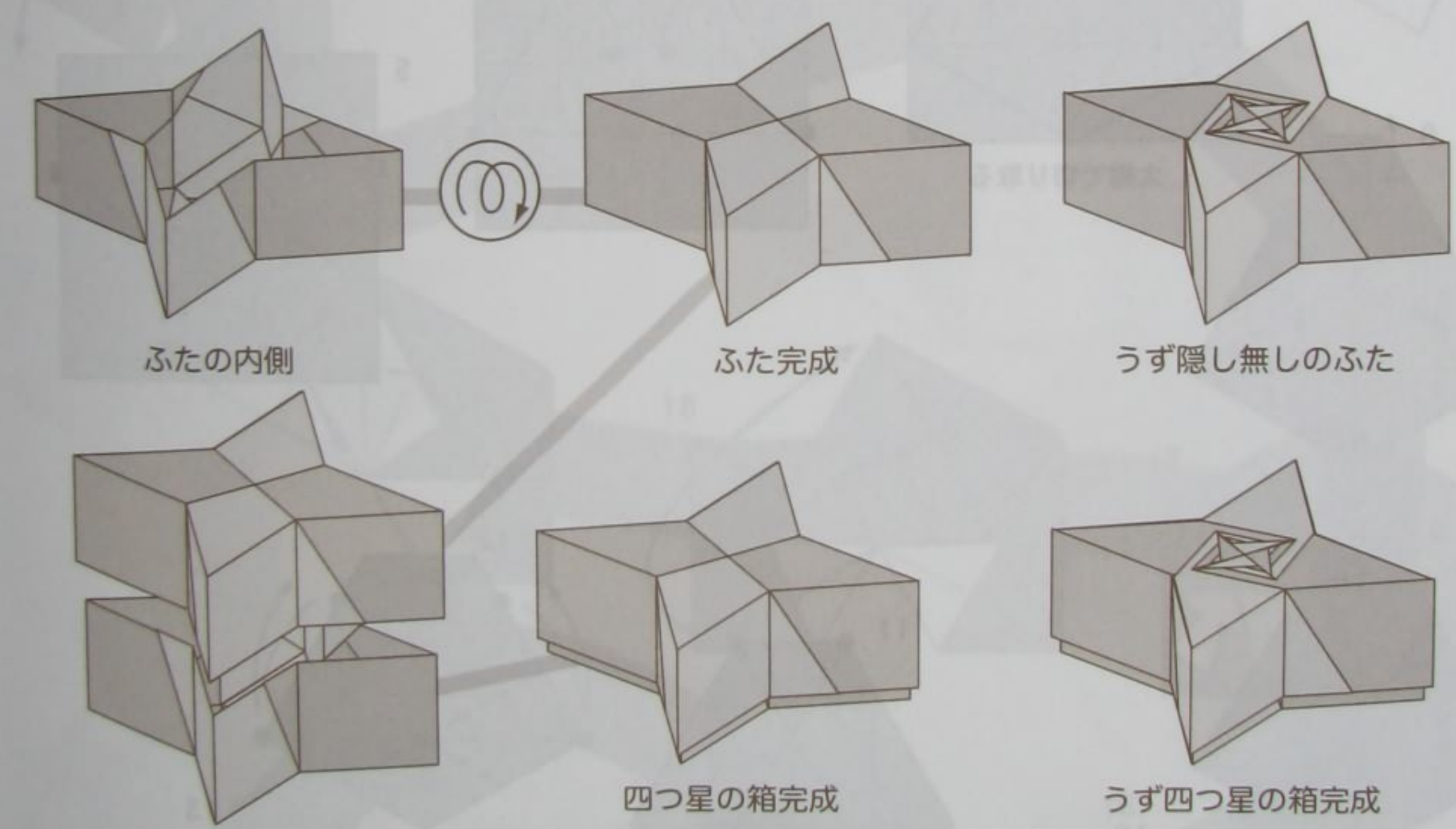
折り目の位置が少し違うだけで、ここから先の折り方、組み方、うず隠し、立体化は本体と同じ。

## 星ふたパーツを4個作る

3ページ前の四角深箱うず隠しふたパーツの工程4から始めます。




折り目をつけてからひらく　　ひらく　　四角深箱うず隠しのふたパーツの工程5



ふたの内側　　ふた完成　　うず隠し無しのふた

四つ星の箱完成　　うず四つ星の箱完成

There is a variation in Star-Module gorup.
Therefore we can enjoy their conbination.
Of course we can also make Five-Star Box.
By the way, Who is Tomo-chin ?

May be Tomoko Fuse.
I guess she will be shocked
to see Four-Star Box.

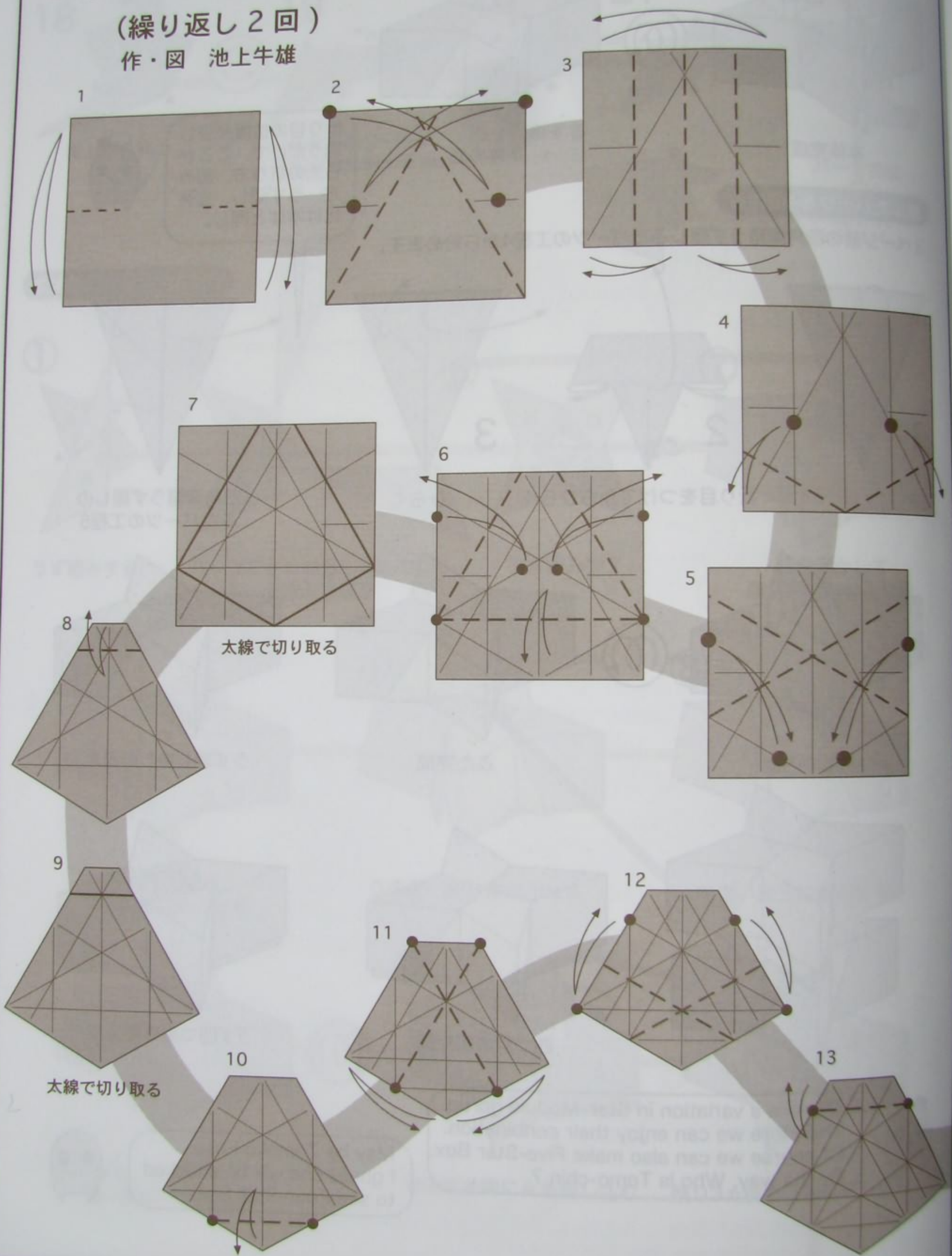
# コッホの雪片曲線

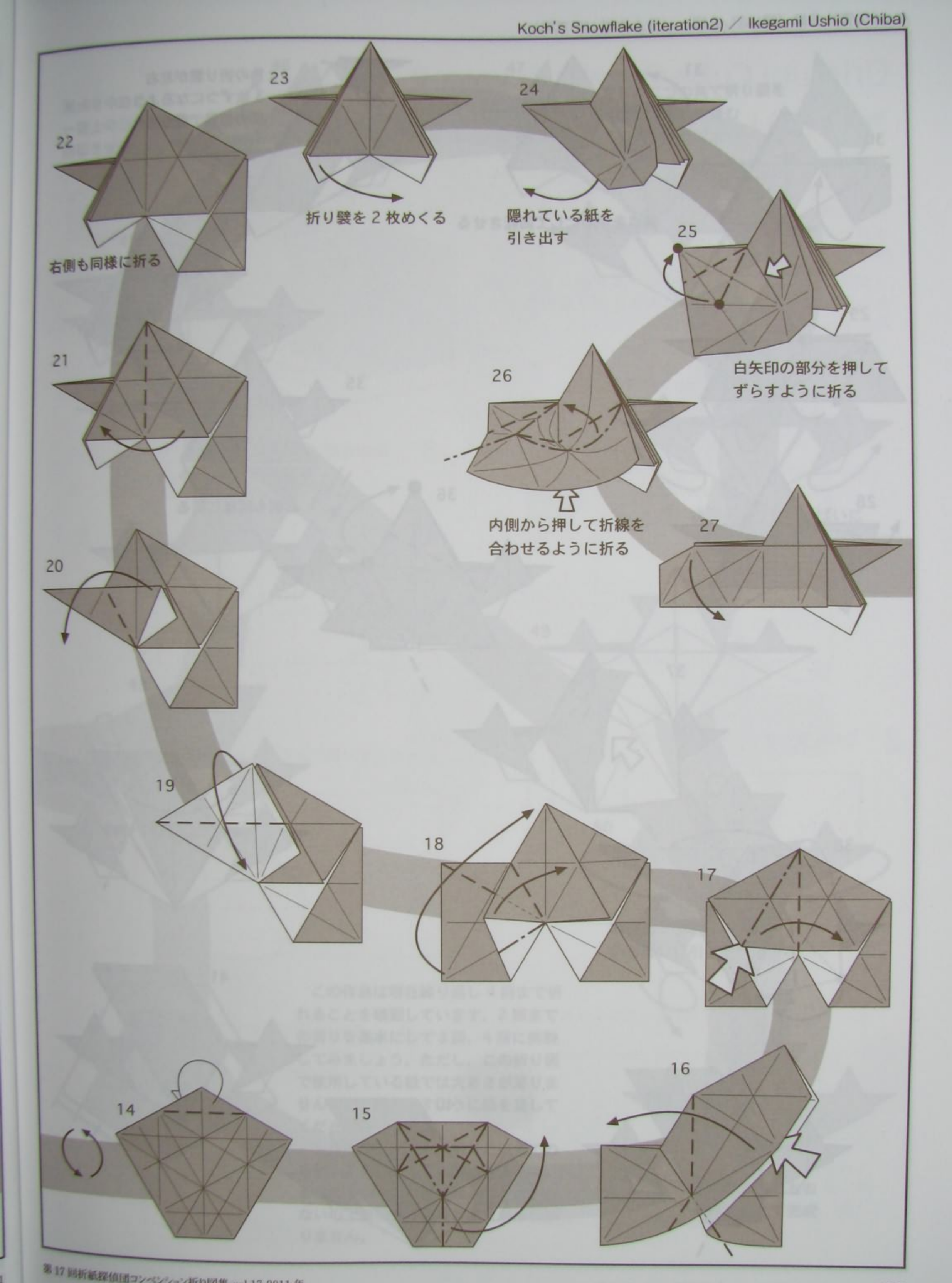
## （繰り返し２回）

作・図　池上牛雄

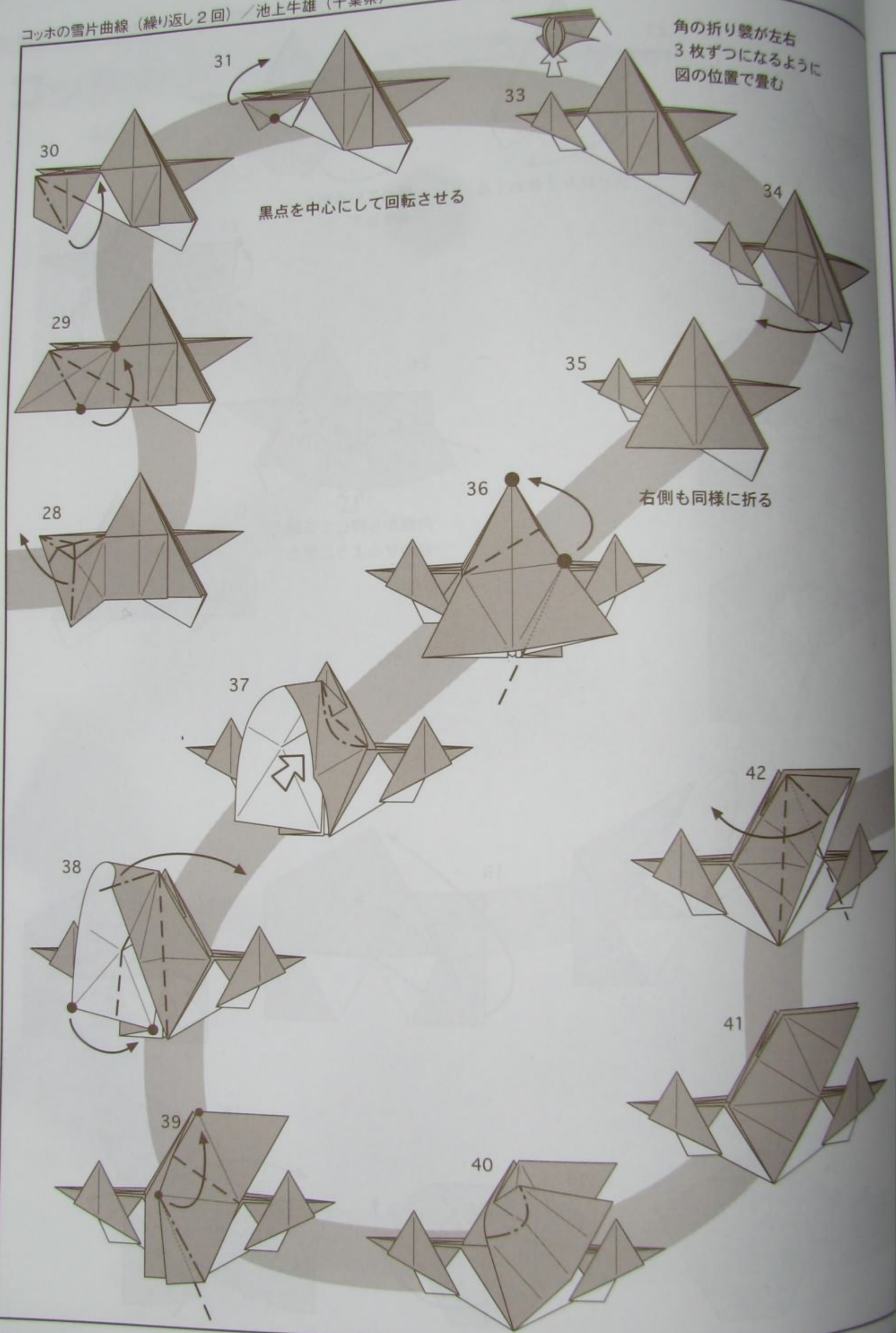
# Koch's Snowflake

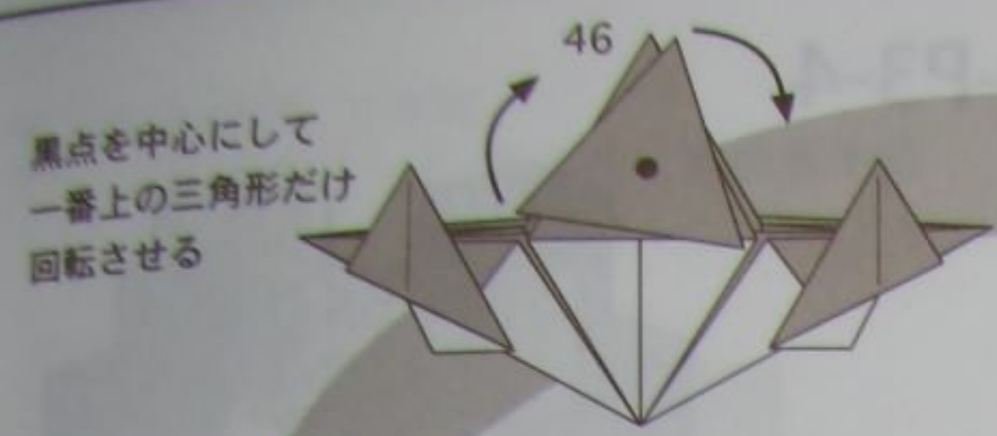
(iteration2)　by Ushio Ikegami

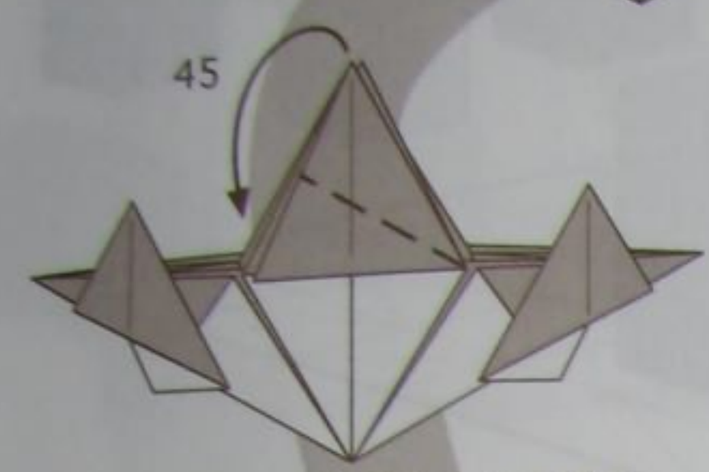


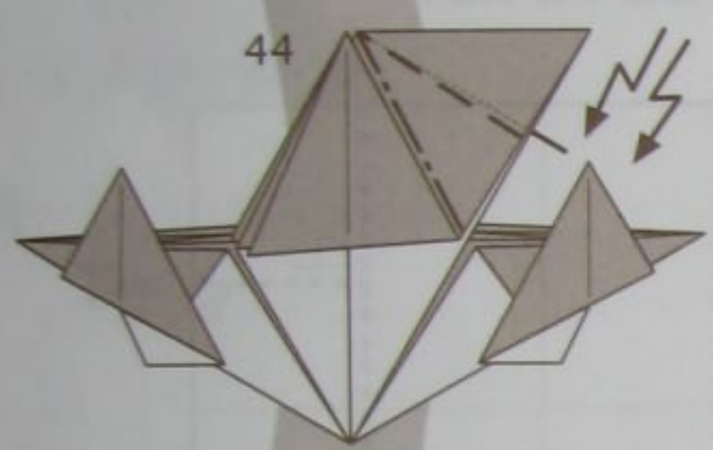

22
右側も同様に折る
23
折り襞を２枚めくる
24
隠れている紙を
引き出す
25
白矢印の部分を押して
ずらすように折る
26
内側から押して折線を
合わせるように折る
27
21
20
19
18
17
16
14
15

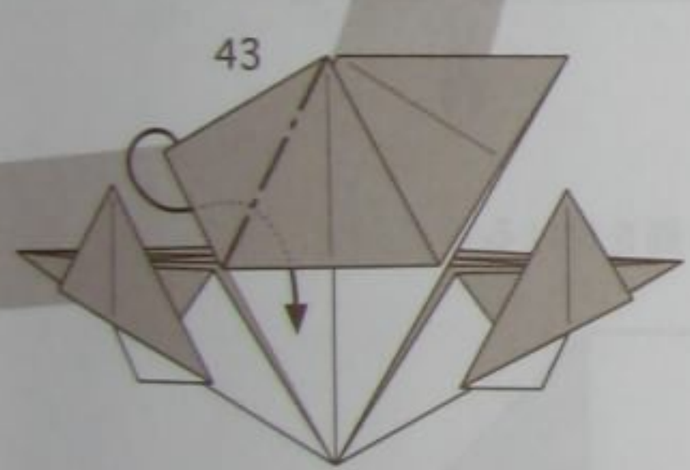
コッホの雪片曲線（繰り返し２回）／池上牛雄（千葉県）

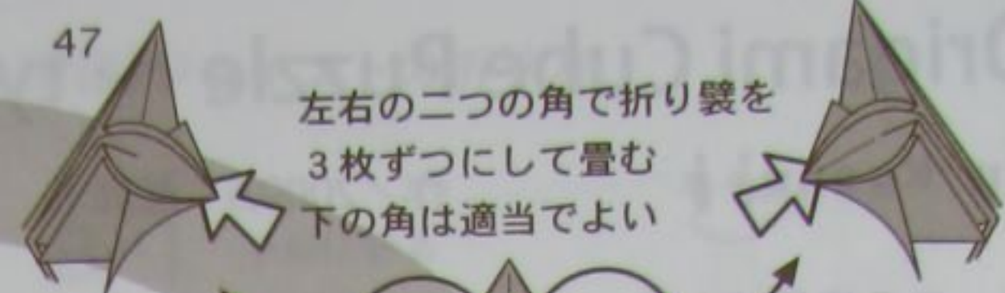


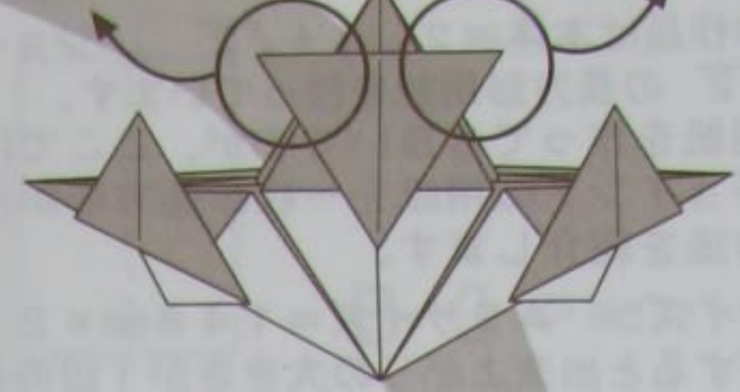


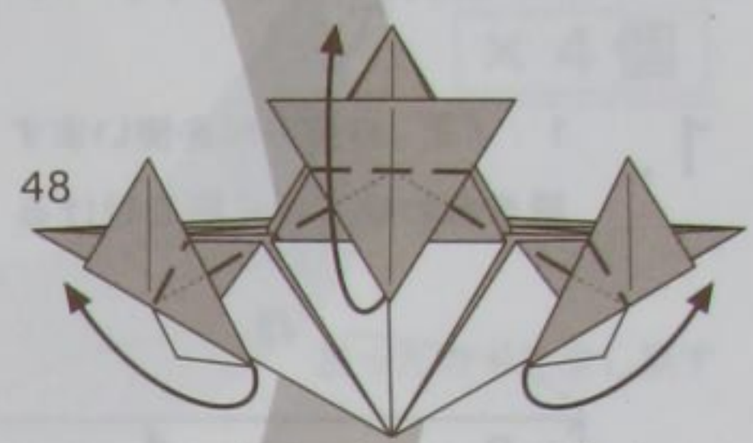



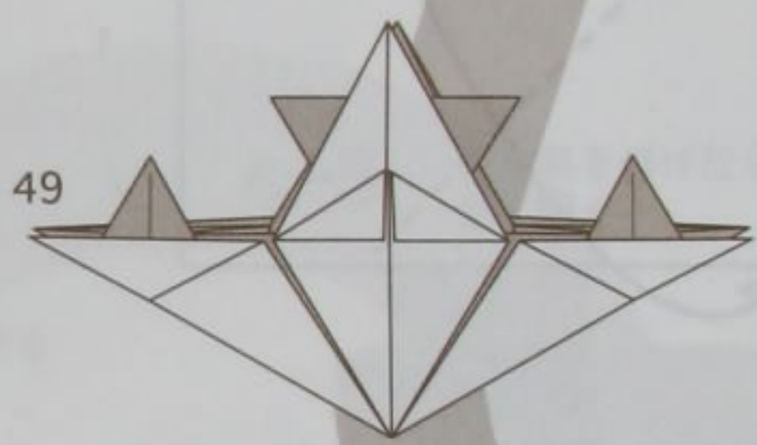



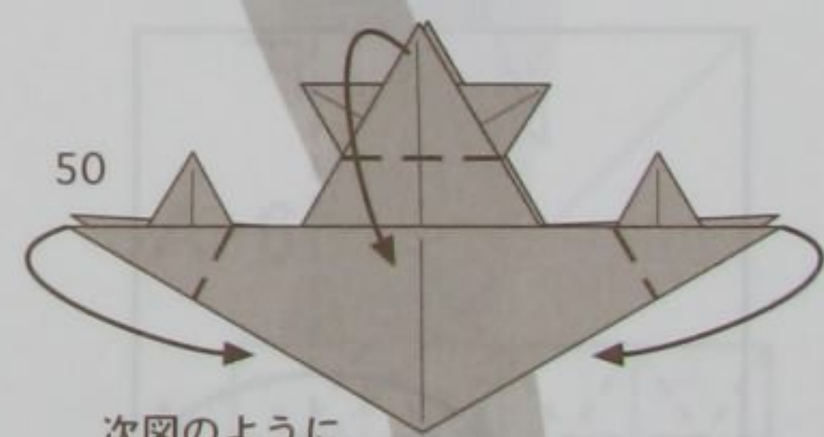



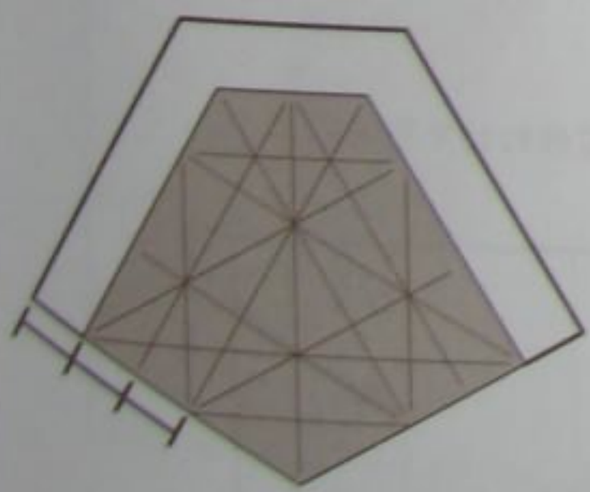





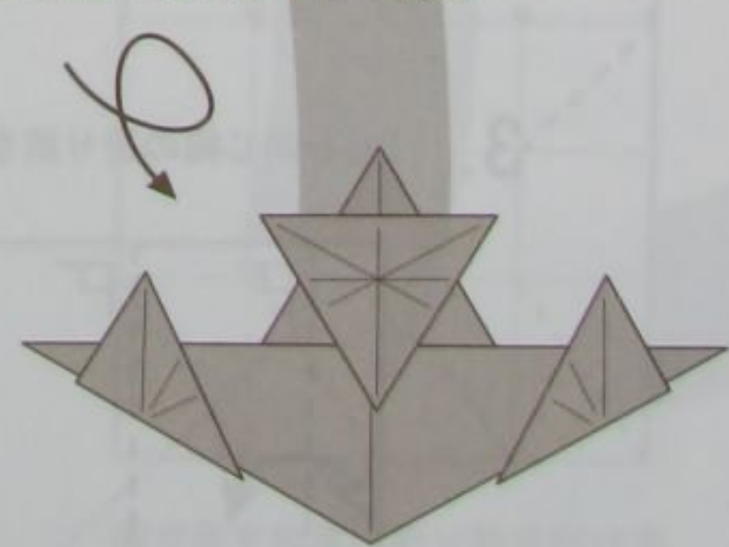



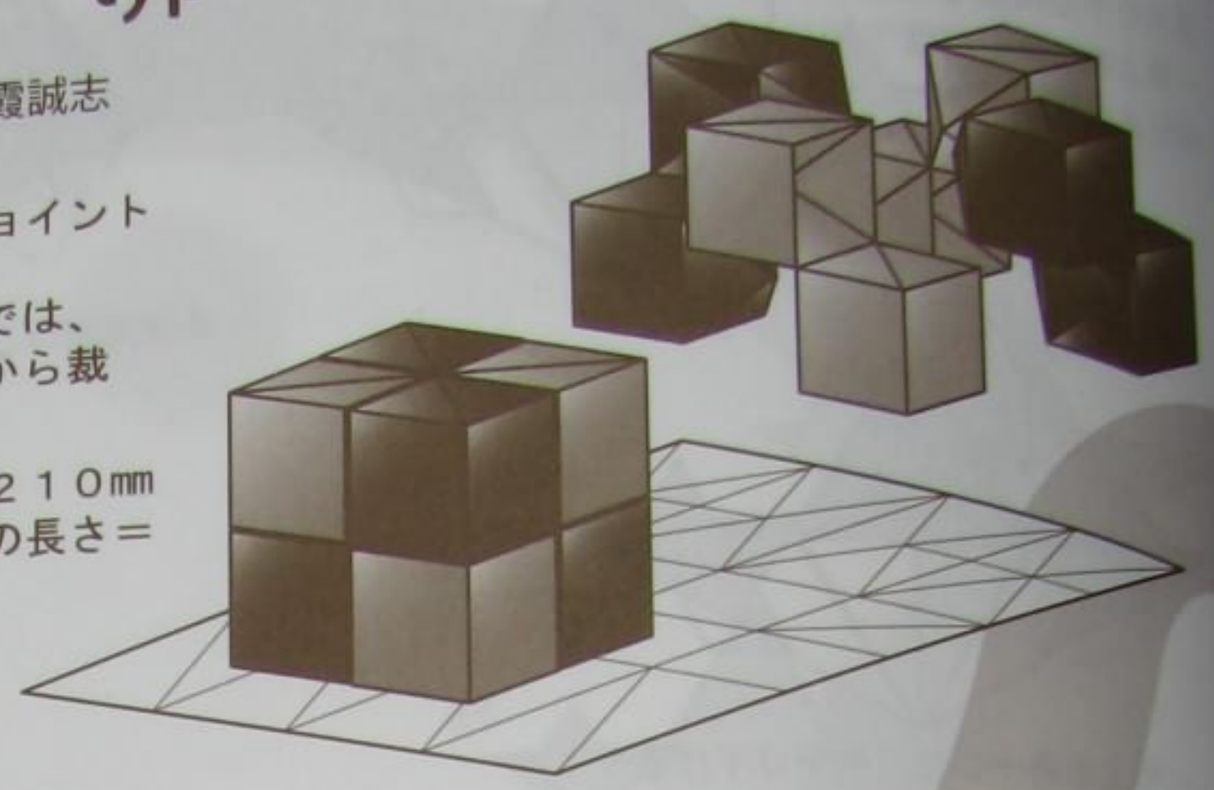
この作品は現在繰り返し４回まで折れることを確認しています。２回までの折りを基本にして３回、４回に挑戦してみましょう。ただし、この折り図で使用している紙では大きさが足りませんので、図に示すように紙を足してください。

ちなみに、設計では折りたい全ての角が上で示した大きい紙に収まっているのですが、角の間の畳み方が分からないので無限折り可能かどうかはわかりません。



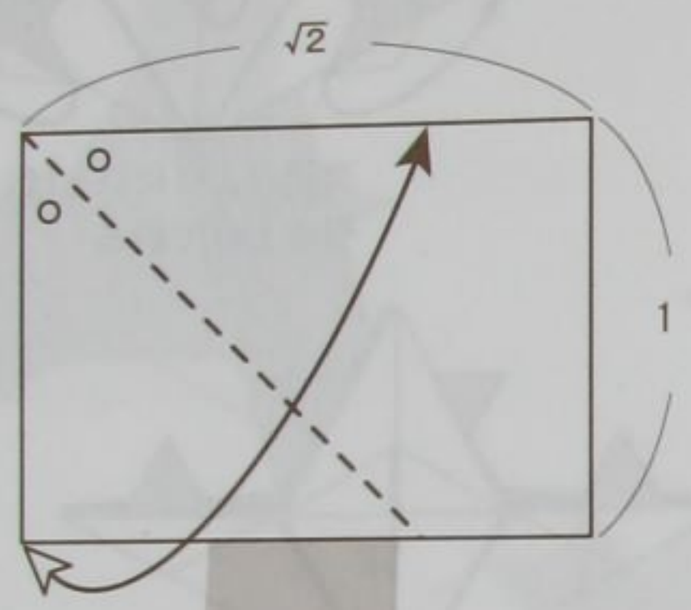
# Origami Cube Puzzle ～ type-P3-4.

By Kasumoo　　作／2009.5　霞誠志

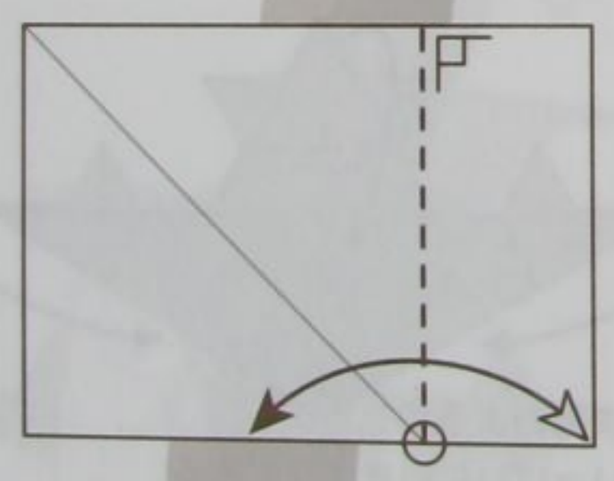


※　この作品は本体＝２：１＋$\sqrt{2}$　、ジョイント＝１：$\sqrt{2}$ の長方形用紙を使っています。
別々に用紙を作っても良いですが、ここでは、本体とジョイントの用紙を一枚の長方形から裁断する方法を紹介します。
＜推奨サイズ＞　Ａ５サイズ＝１４８㎜×２１０㎜から裁断すると出来上がりの大きさが１辺の長さ＝約６ｃｍの立方体になります。

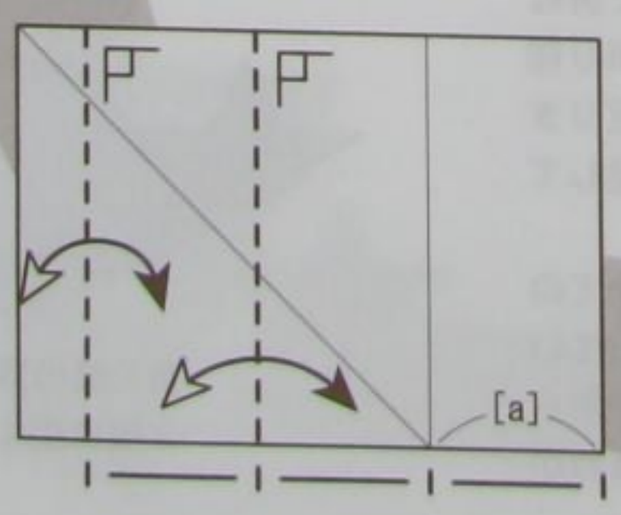
**1.**　１：$\sqrt{2}$ の長方形を使います
縁を合わせて折り筋を付ける



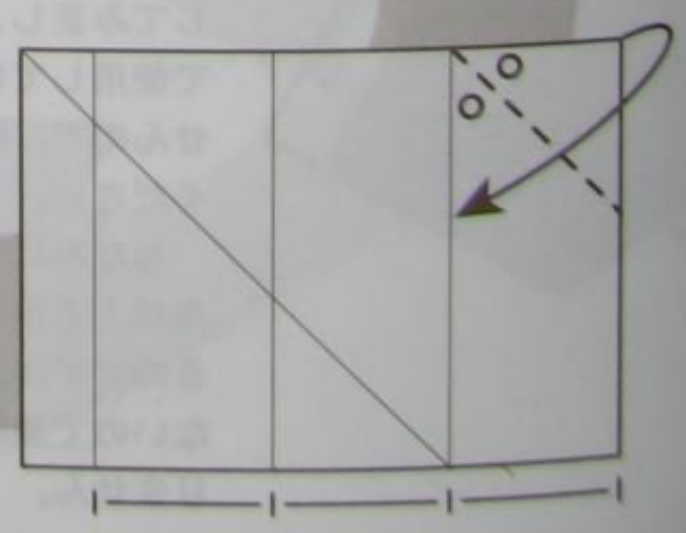

**2.**　○印を通る線で折り筋を付ける



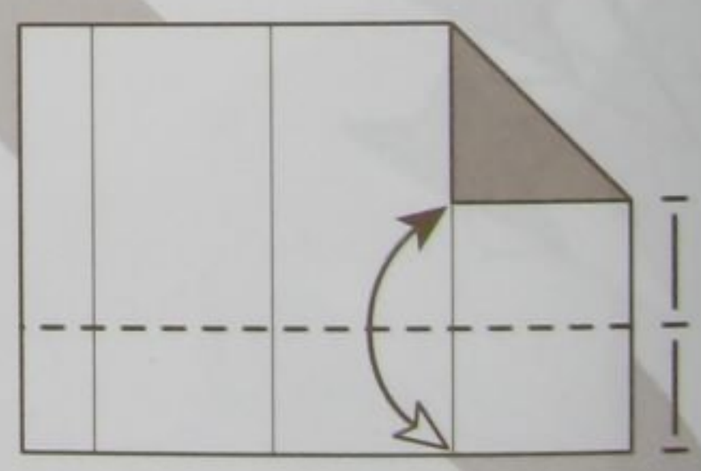
**3.**　[a]と同じ幅の折り筋を付ける



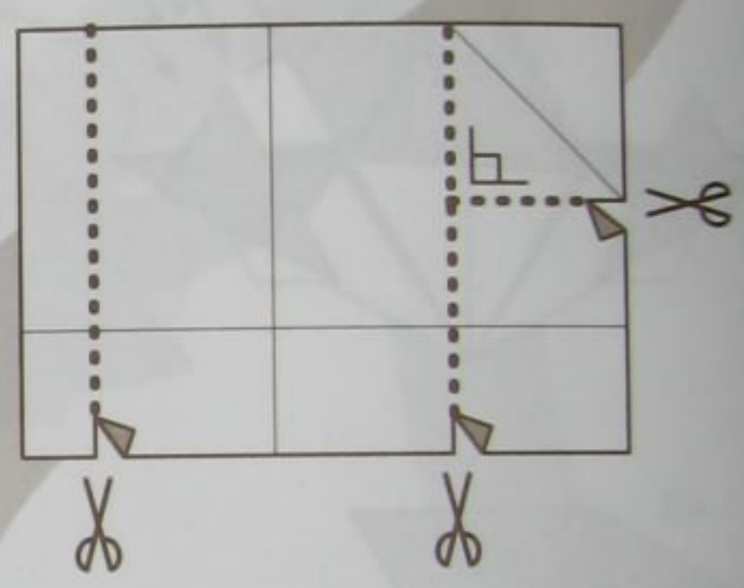

**4.**　縁を折り筋に合わせて折る



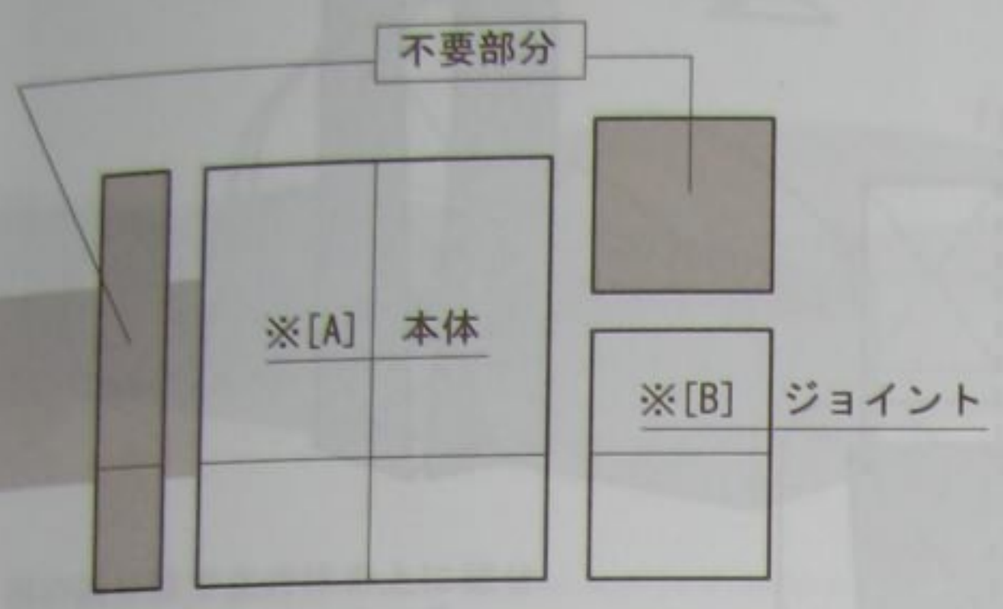
**5.**　縁を合わせて折り筋を付ける



**6.**　図の位置で切り離す

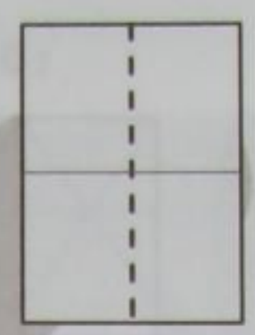


7. ※[A]本体 ×８枚、
[B]ジョイント ×４枚、を用意する

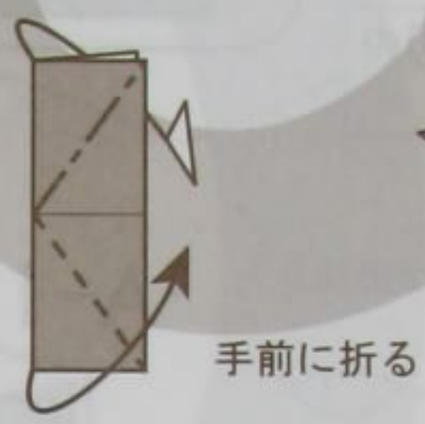



※[B]ジョイントの折り方

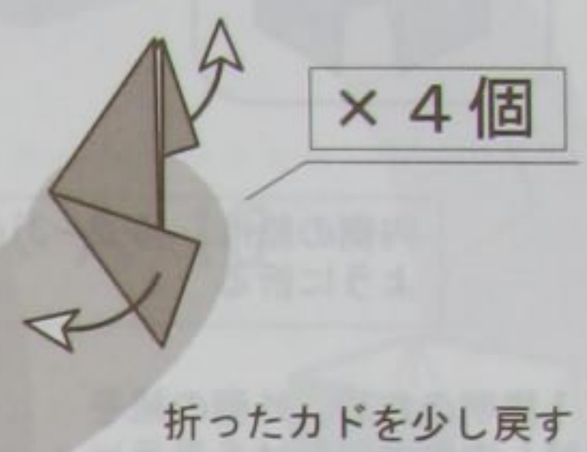
B−1 半分に折る



B−2

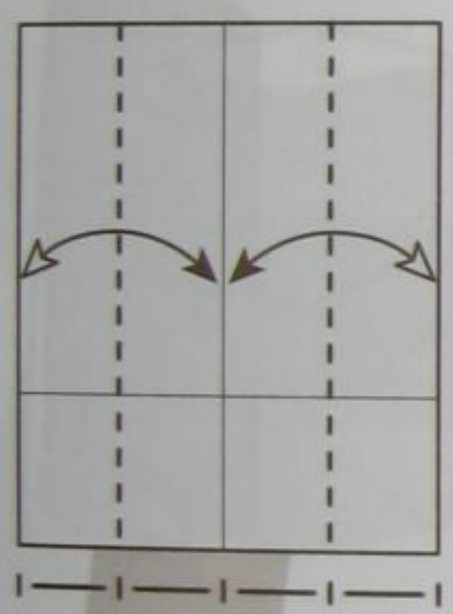



B−3 ジョイントの完成

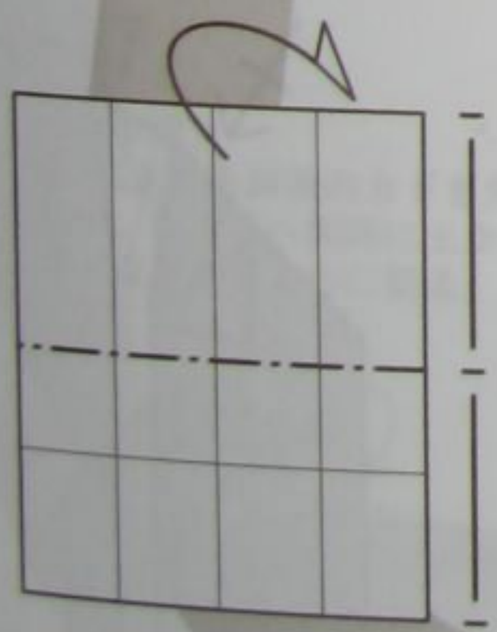



※ [A]本体の折り方

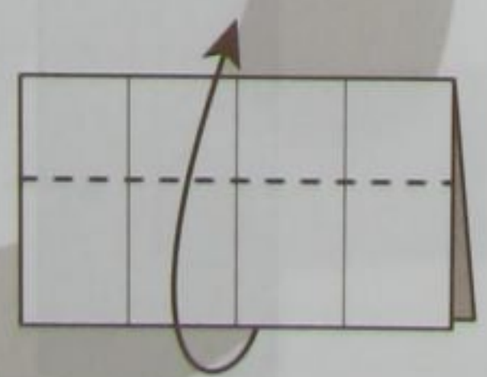
A−1 折り筋を付ける



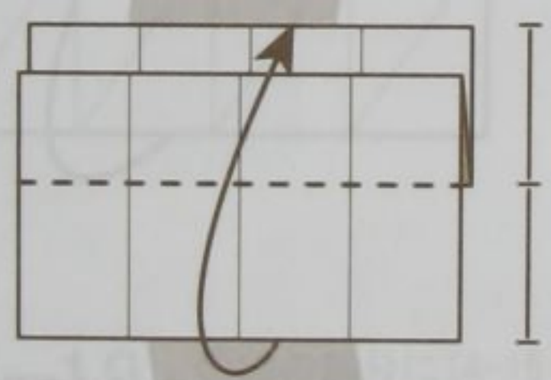
A−2 半分に折る



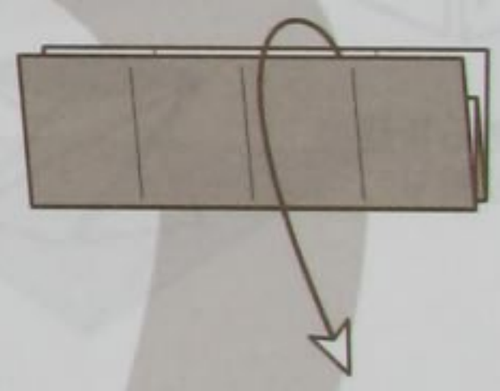
A−3 既にある折り筋で折る



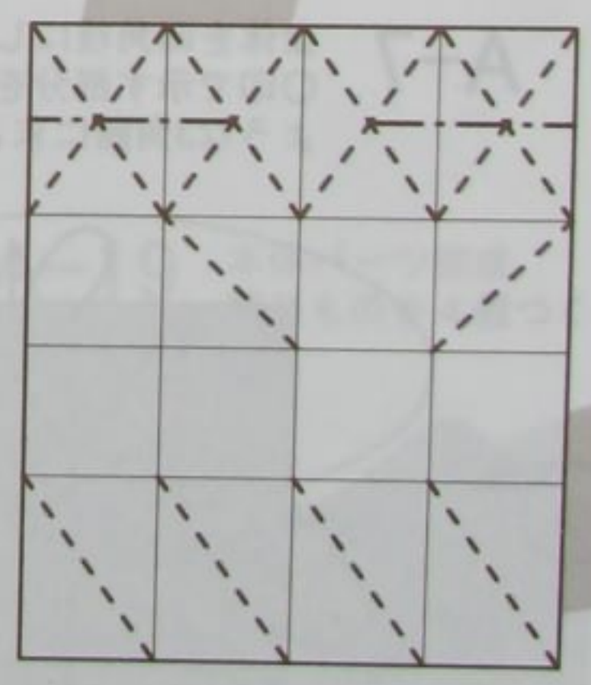
A−4 縁を合わせて折る



A−5 折り筋を付けたら全て開く

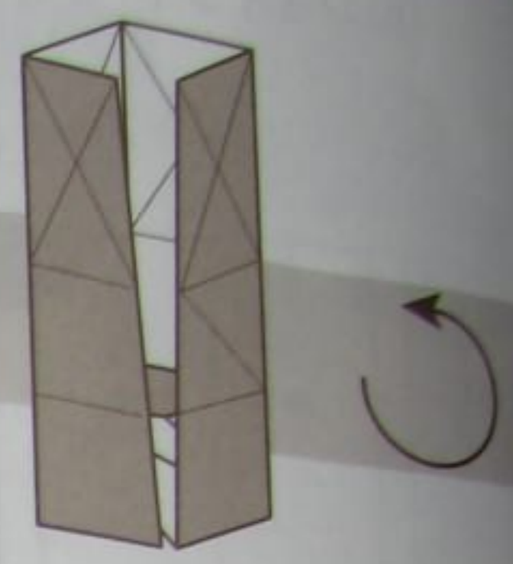


A−6

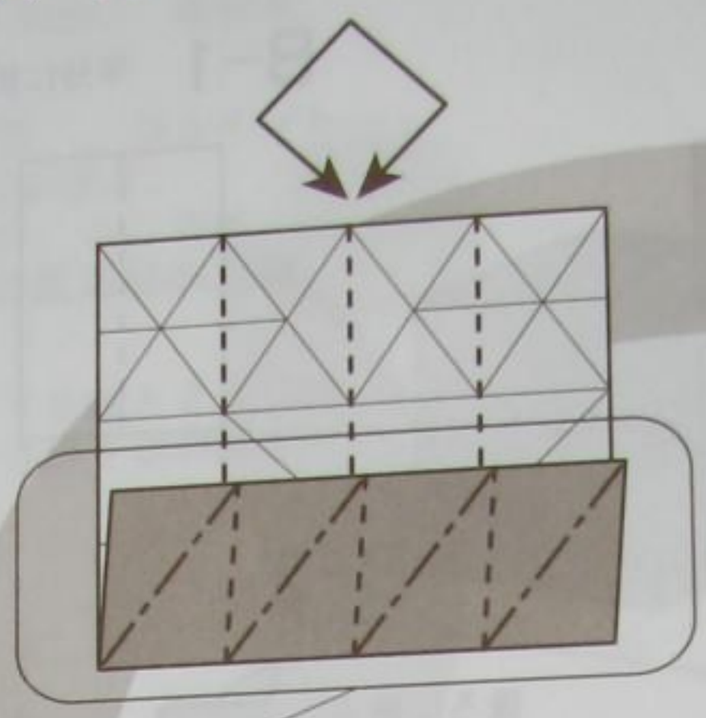


図で示す位置に折り筋を付ける（他の部分にはなるべく折り筋を付けないようにすると、後でまとめ易い。）

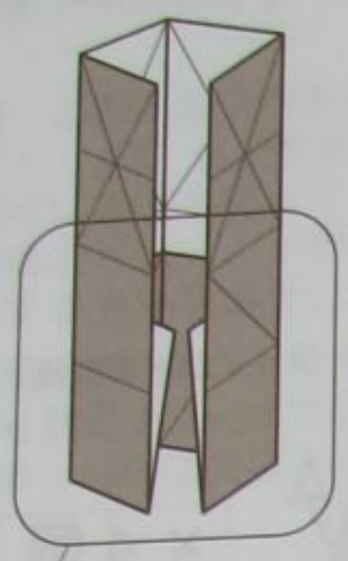
## A−13 向きを変えて横から見る



## A−12 既にある折筋で立体化する



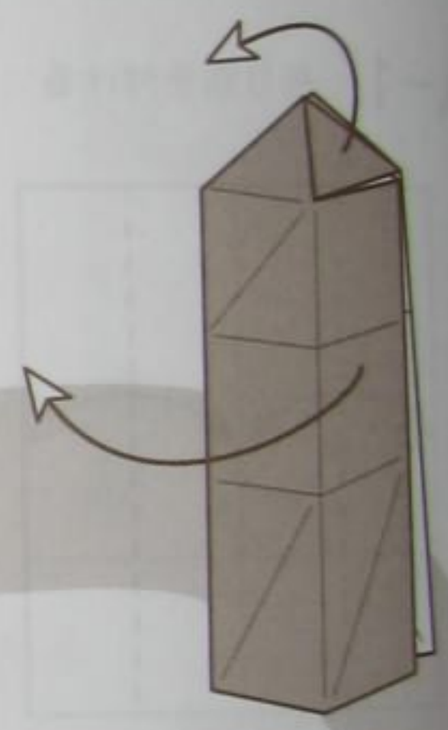
## C−1



内側の紙は、[C-2～3]のように折る

（↑説明のため、外側の紙を省略し内側の紙だけを表示）

## A−10 折り筋を付けたら全て開く



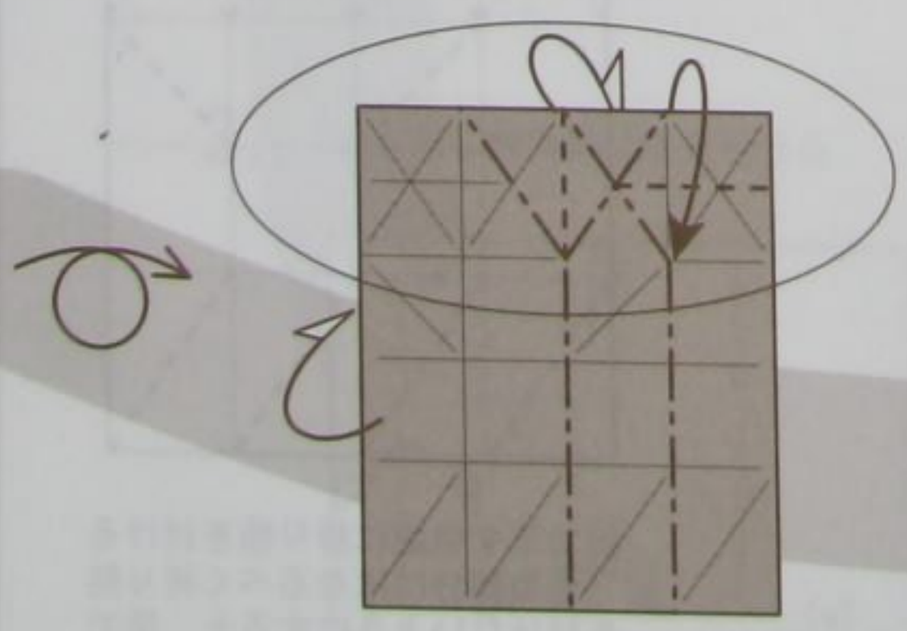
## A−11 既にある折筋で折る

## C−2

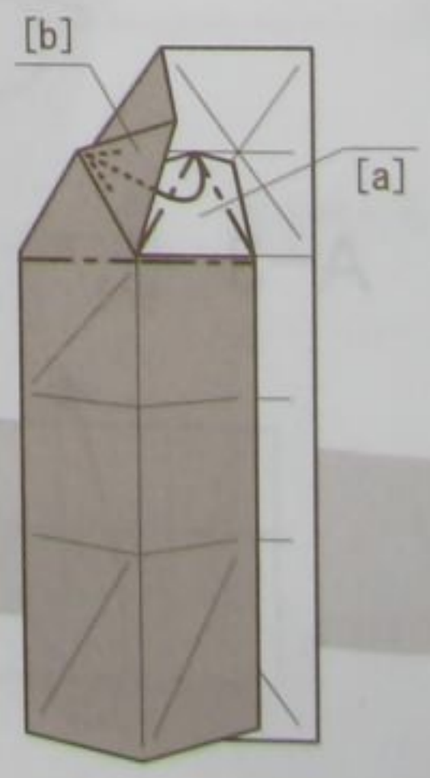
## C−3

既にある折筋でねじり折り

## A−7 全体を四角柱にしながら、○印で示す部分を次の図のような3角錐にまとめる



## A−8 [a]のカドを[b]の3角錐のポケットに差し込む




## A−9 反対側も[A-7～8]と同様に折る

A-14

A-14´

「反対側から見る」

図の折り筋で立方体の上に被せるようにしてカドを立てる

A-15

A-15´

「反対側から見る」

A-16 ○印で示す部分を[A-10]の形にまとめる

ジョイントを本体に（しっかり奥まで）差し込む

[A7～10]と同様に折る

A-18 ○印の部分に[A-15～17]と同様にして本体を取り付ける

A-17

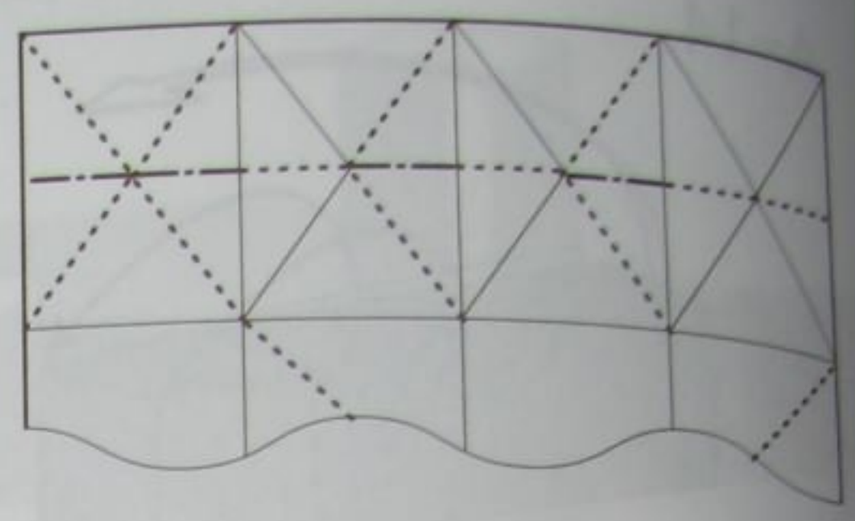
<途中図>
(中に入れる両側のカドを先に折り、両カドへ同時に上から屋根を被せるように折る)

A-19 本体パーツ完成
同じものを４個つくる

×４個

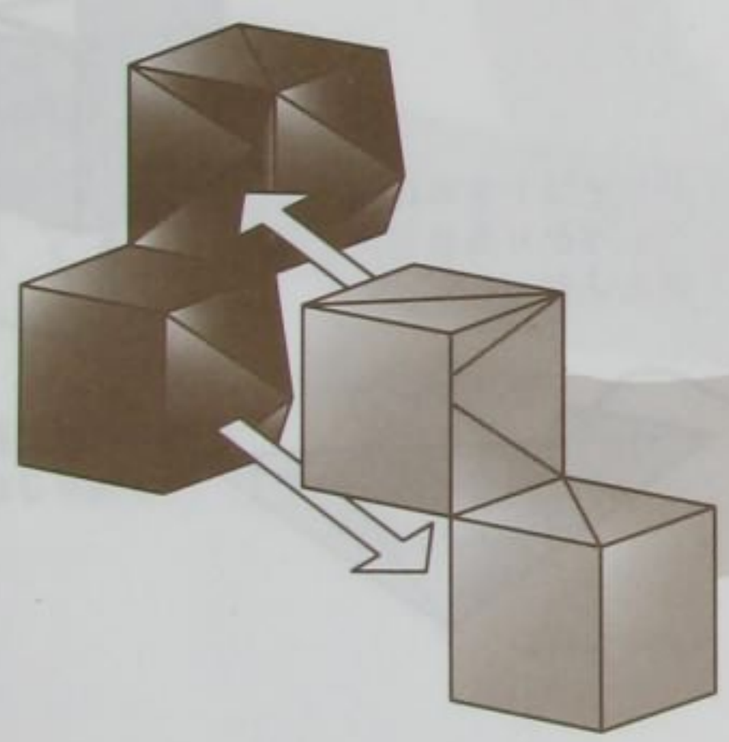
…『A-17』の別なまとめ方を紹介します…

A-17の場合、四角錐の縁に紙の裏が出ます。
また、四角錐の山が二つに分かれてしまいます。
この問題を解決するために、別の折り方を考えてみました。（展開図参照）
この場合、四角錐がすっきり仕上がります。ただ、かなり折り難くなるうえに、紙質によっては最後に糊付けが必要です。
他にも四角錐のまとめ方が考えら得ると思いますので工夫してみて下さい。

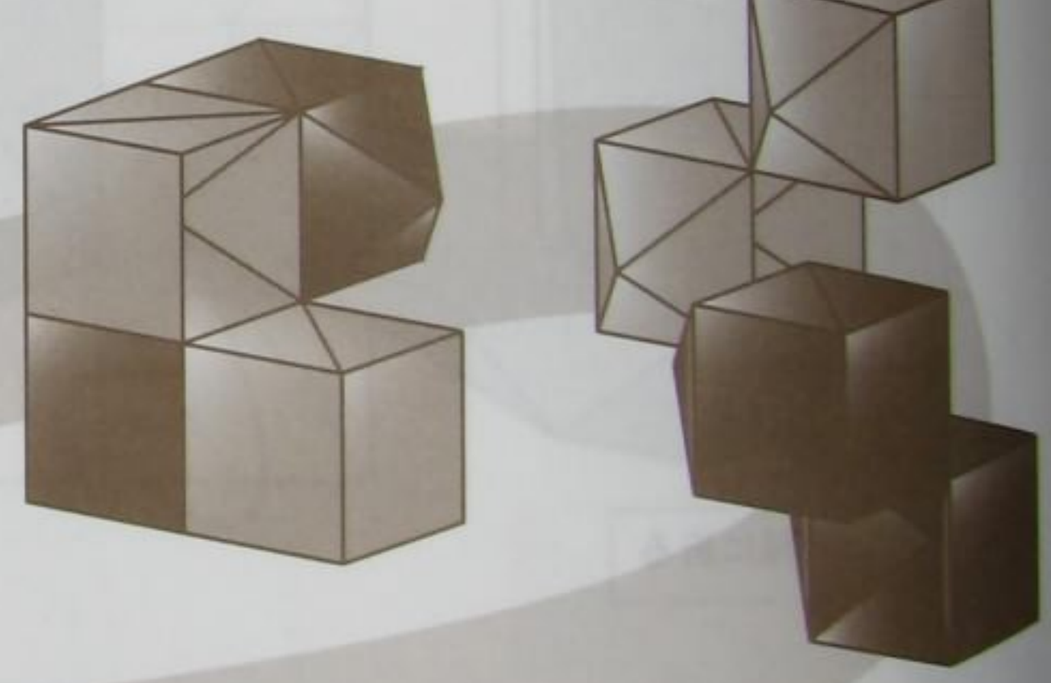


※ Origami Cube Puzzle の組み方

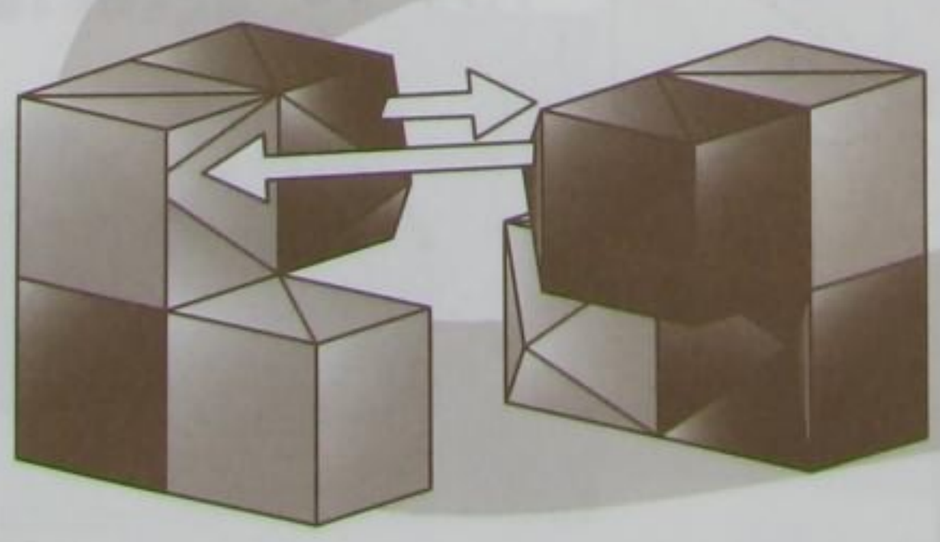
D-1 凸凹を合わせて二つのパーツを組み合わせる



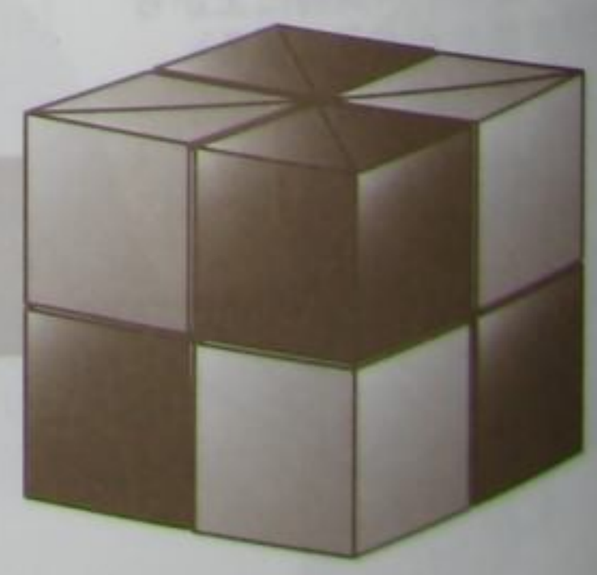
D-2 もう一組のパーツも同様に組み合わせる



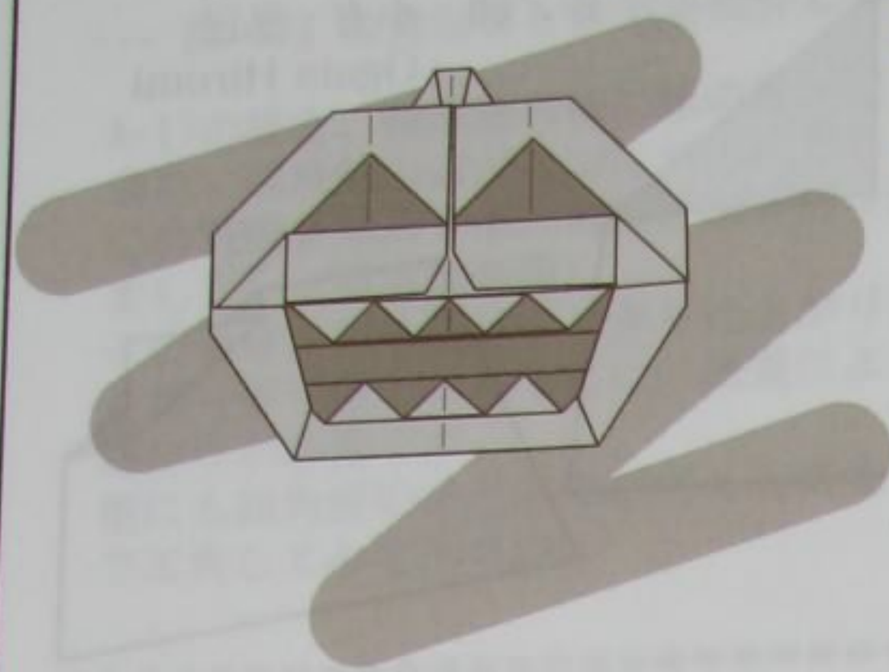
D-3 二組を斜めにスライドさせるようにして組み合わせる



D-4 完成



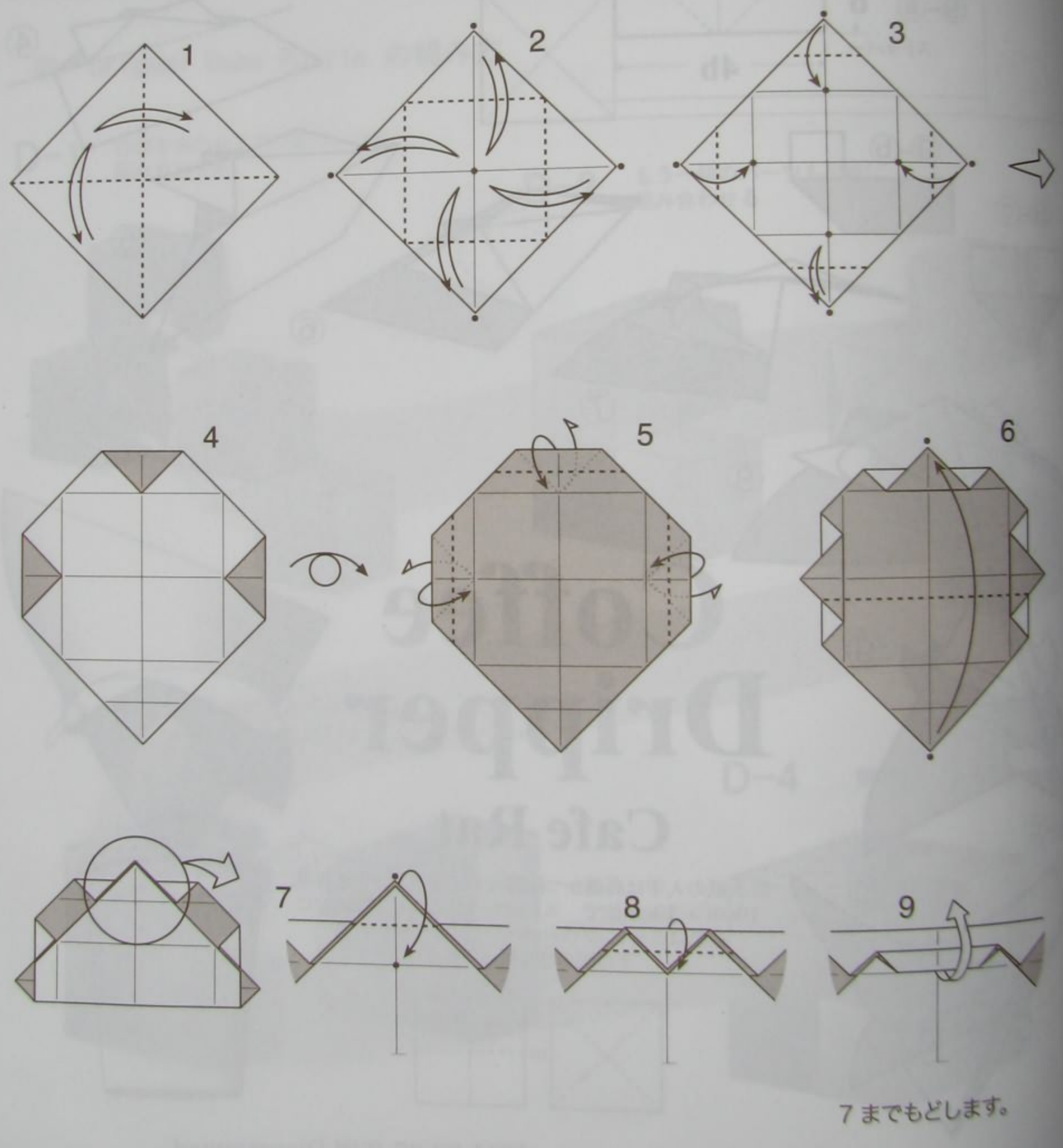
2010.08.07 創作 Disigned　2011.06.05 作図 Diagrammed



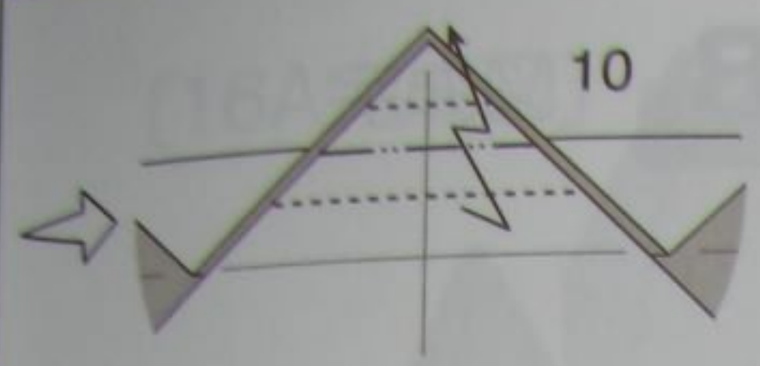
# ジャコランタン
## Jack-o'-Lantern

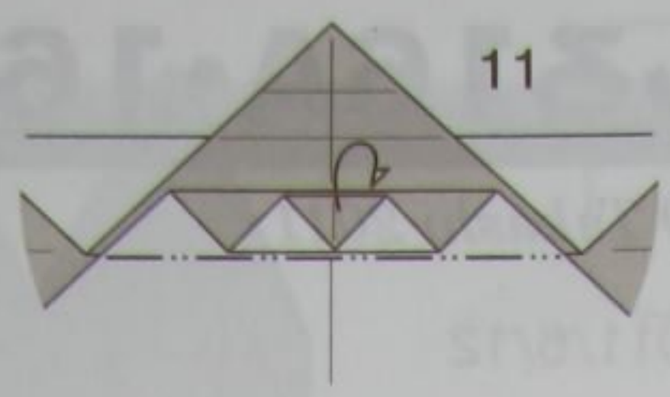
前川淳
MAEKAWA Jun

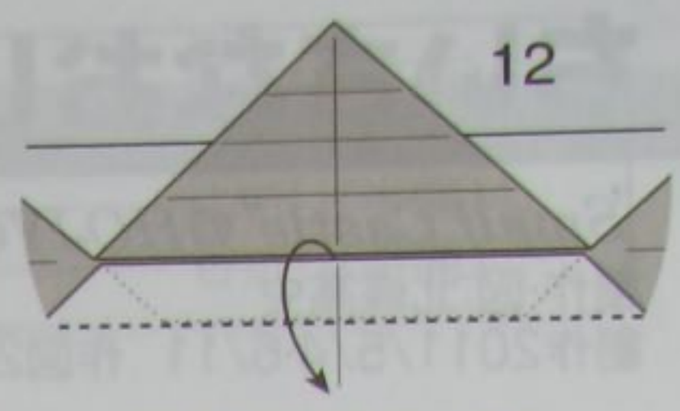
宮本宙也さんの
作品にヒントを
うけた造形です。



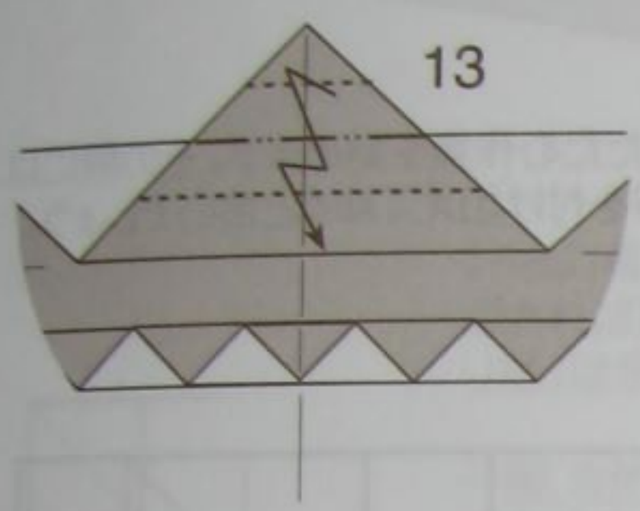

7までもどします。

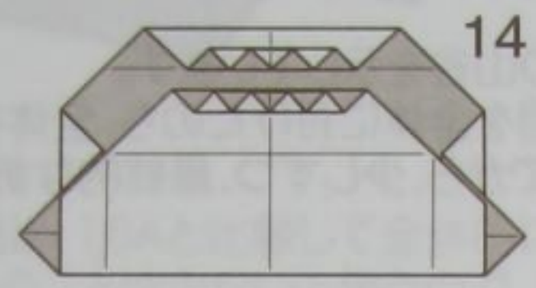


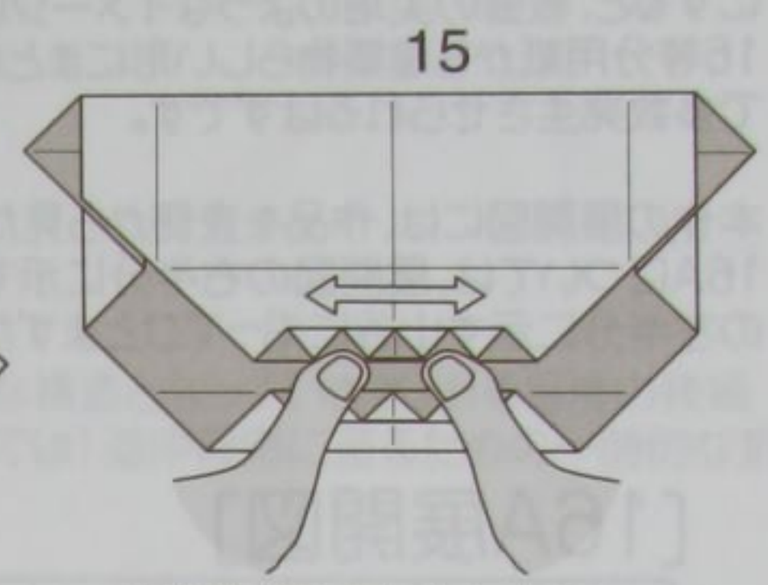



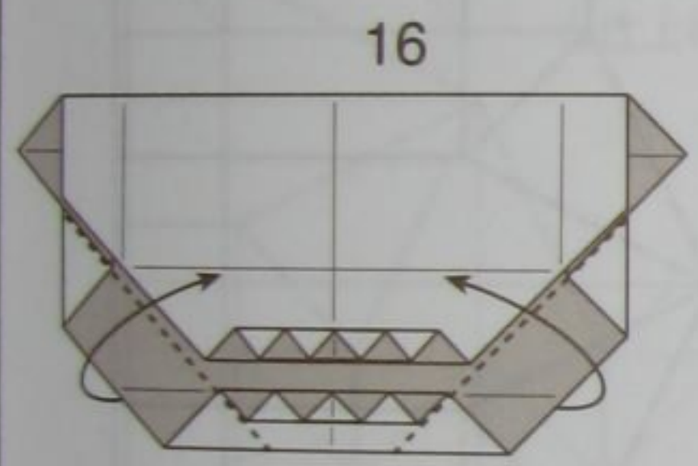

同じ幅で折り返します。

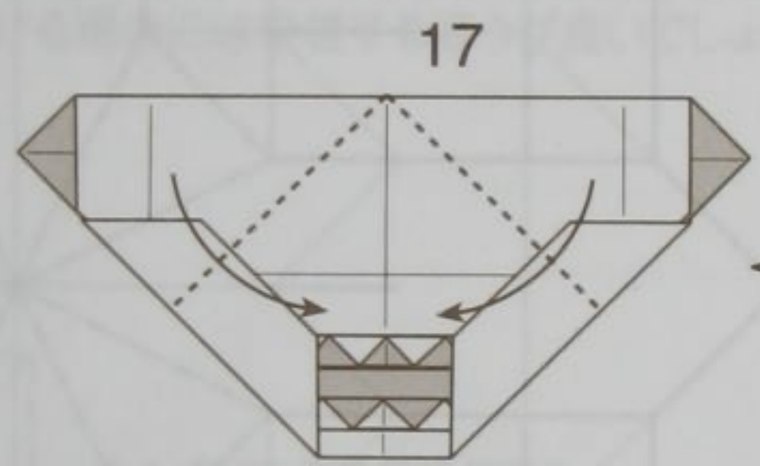


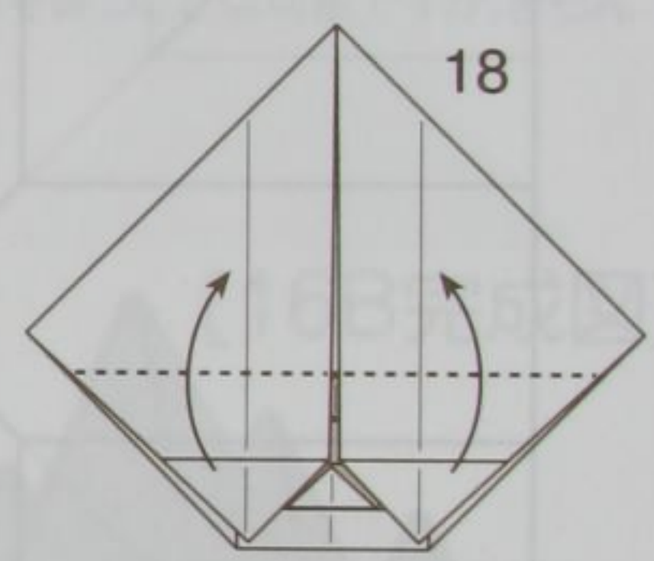



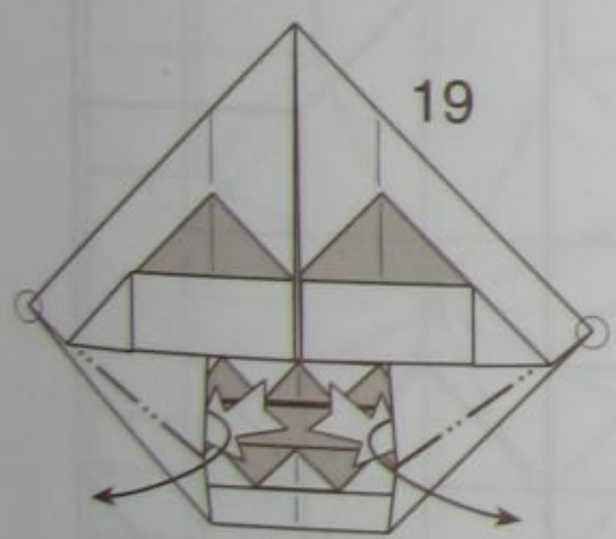



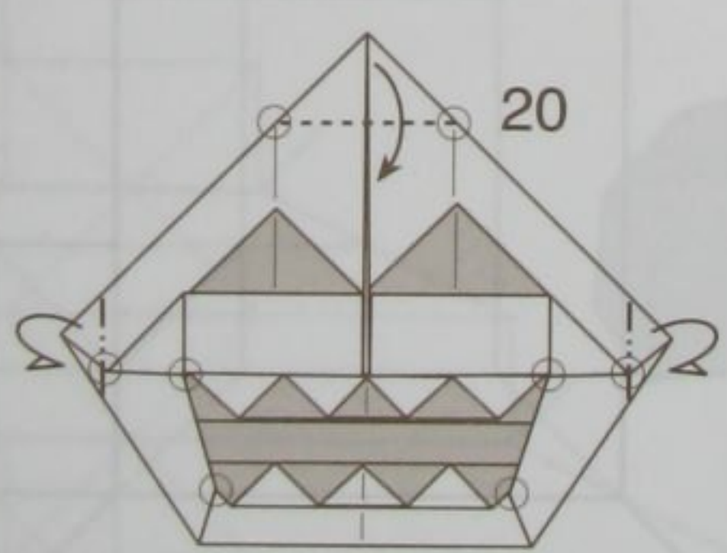

折り目がひらかないように、
しっかり「しごき」ます。

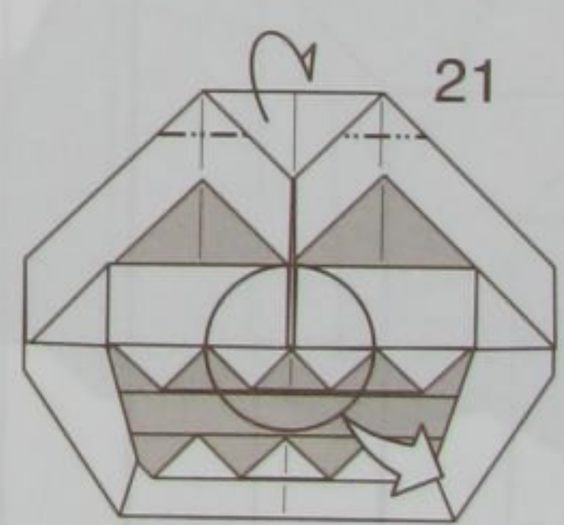


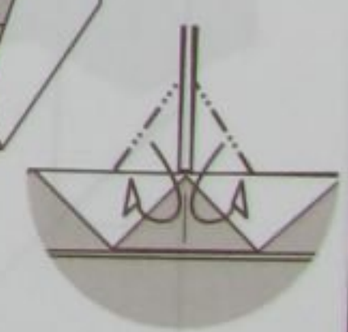



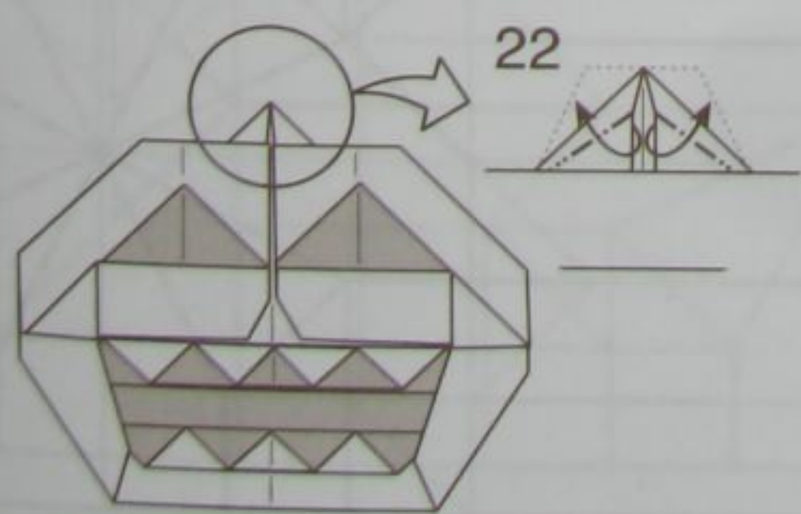



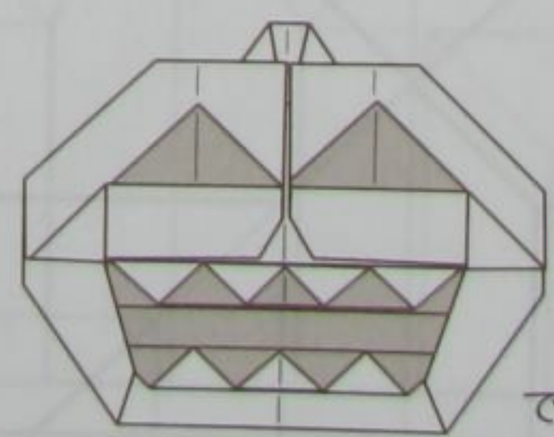



ひらく角度は次の図を
見てください。



できあがり。

# ちいさなおしろ16A・16B

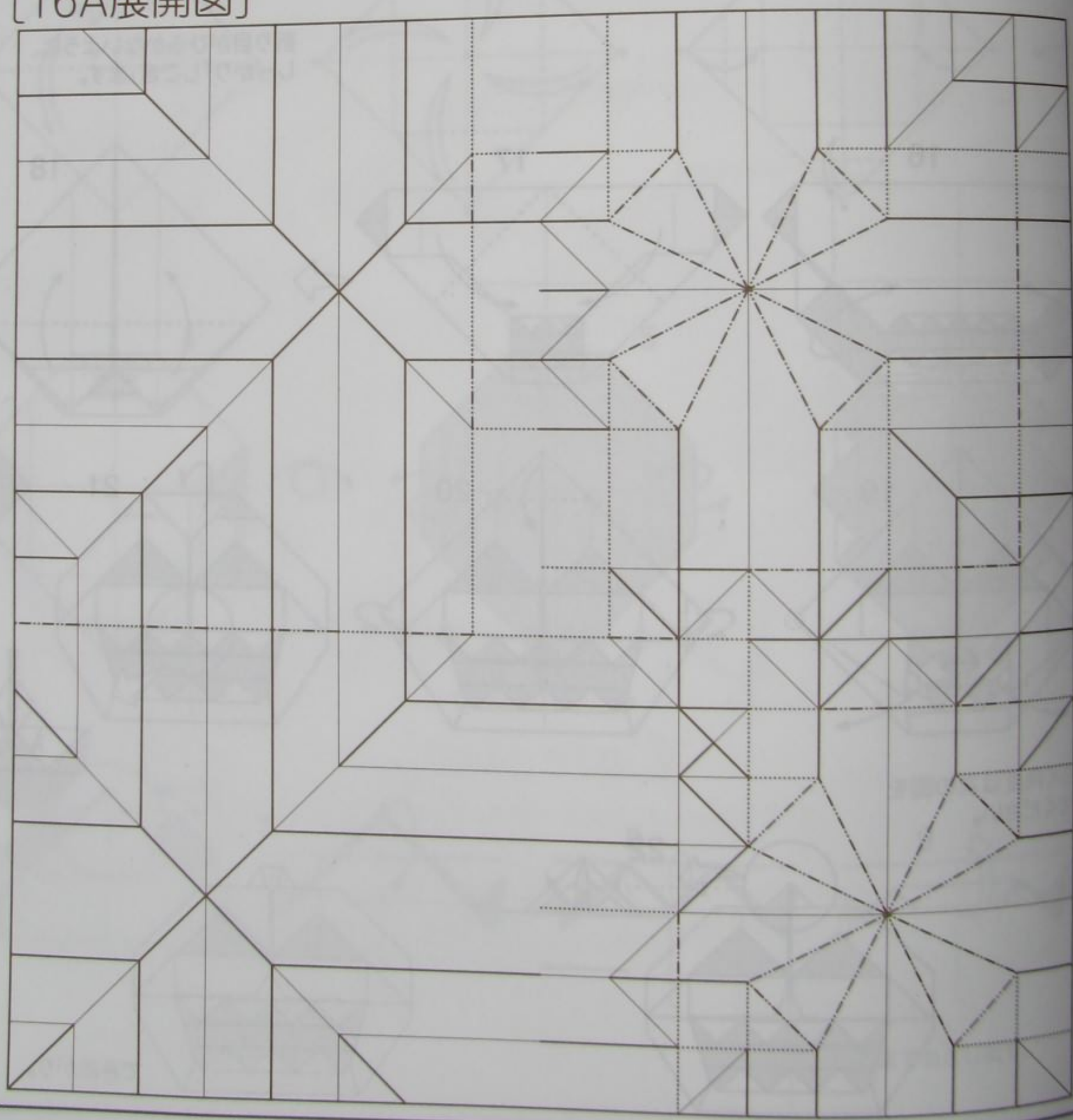
"Small Castle" ©HOJYO Takashi 2011

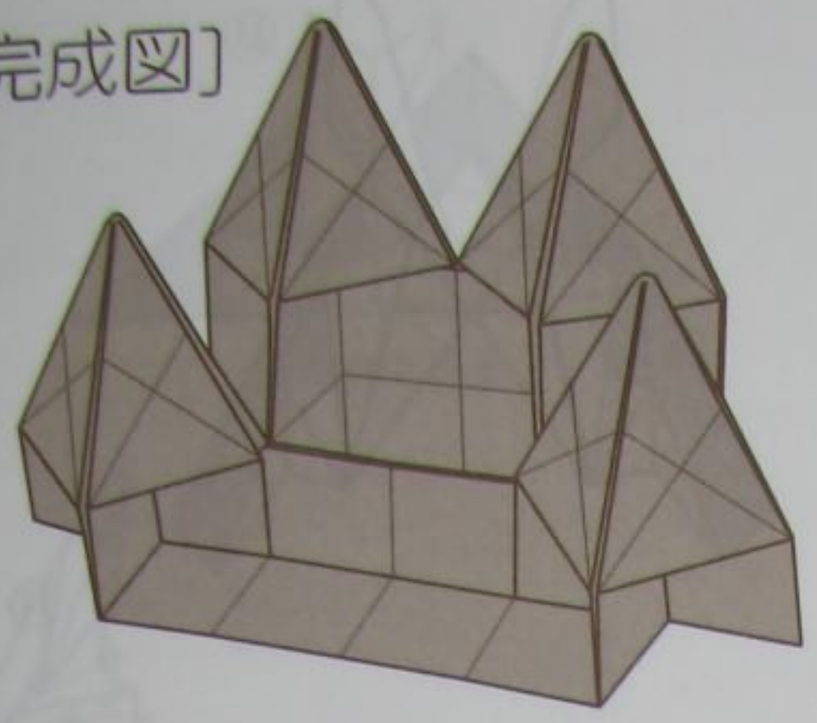
創作・図:北條高史
創作2011/5/4・6/11　作図2011/6/12

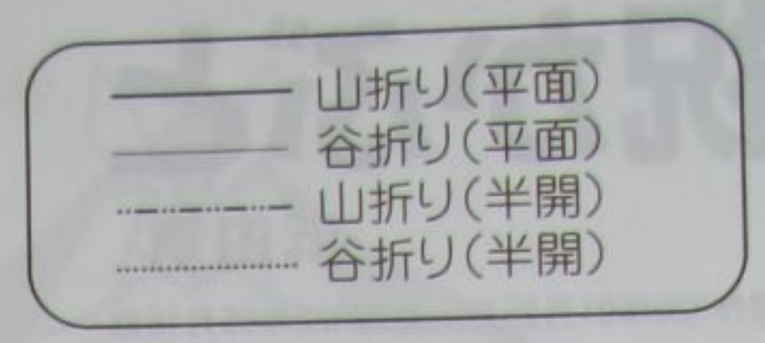
基本骨子は、川崎敏和氏のユニット「水晶」を1枚の正方形に複数詰め込んだ構造。そこから突起の先端を半開状態にすると、教会の尖塔のようなイメージになります。
16等分用紙から建築物らしい形にまとまった例を示しますが、蛇腹の分割を細かくすれば、塔をいろいろな長さ・場所で多数発生させられるはずです。

本作の展開図には、作品を表側から見たときの山谷を示しています。
16Aについては、展開図の右半分に示す折り目を全体に付けたのち、全体をたたむ作業を始めます。その際には、図の左半分に示す山谷に沿ってひとまずたたんでから、少しずつ、最終的な折りを付け加えてゆくと良いでしょう。

〔16A展開図〕



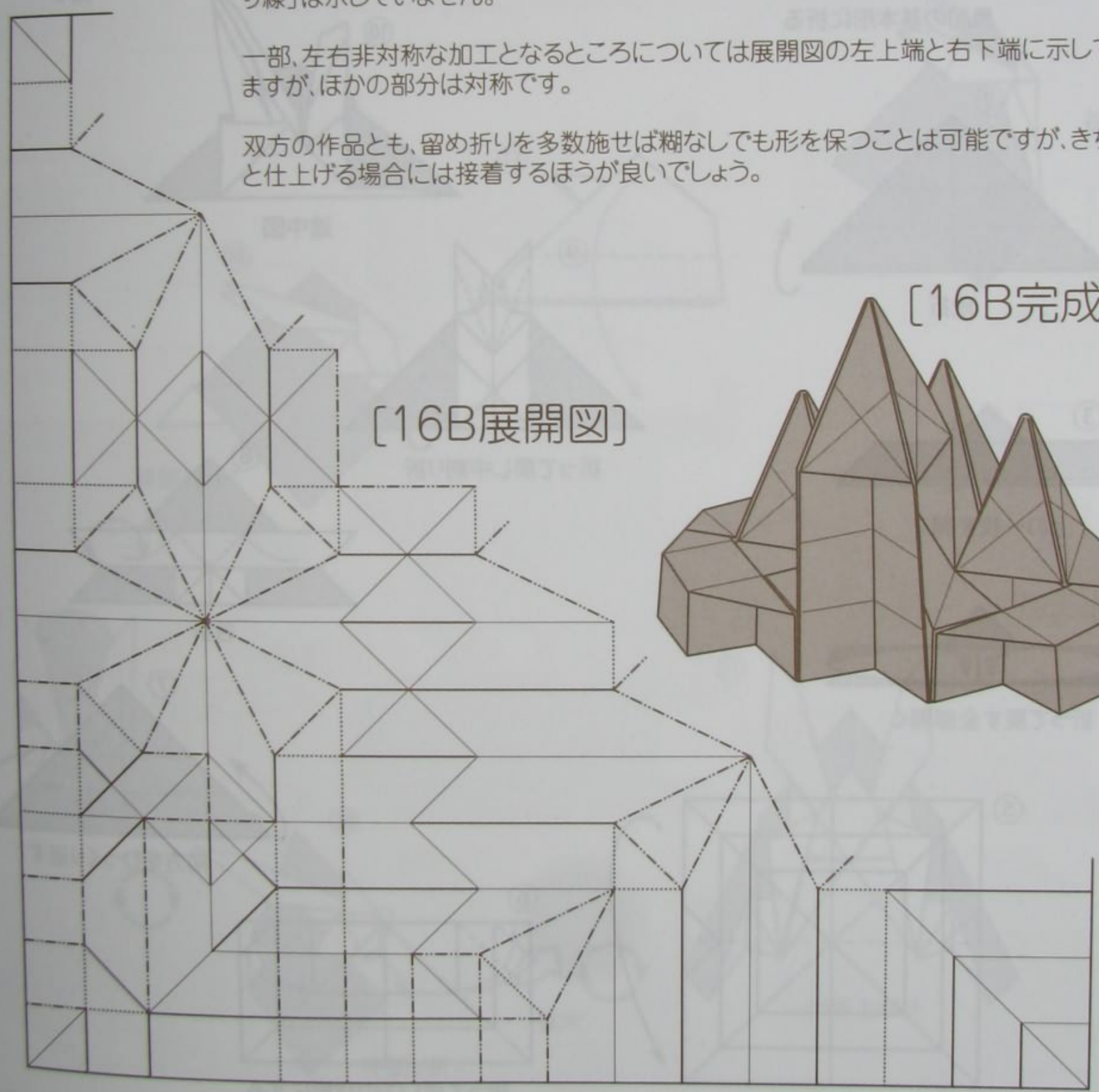



16Bの構造は、16Aと比較して全体的に素直な構造となっています。ある程度の技術があれば迷うことは少ないと思うので、こちらでは「途中段階に至るための一時的な折り線」は示していません。

一部、左右非対称な加工となるところについては展開図の左上端と右下端に示していますが、ほかの部分は対称です。

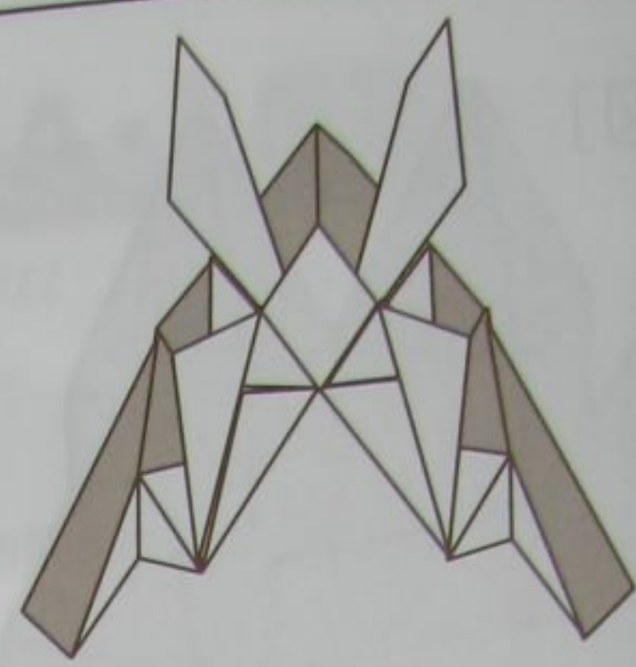
双方の作品とも、留め折りを多数施せば糊なしでも形を保つことは可能ですが、きちんと仕上げる場合には接着するほうが良いでしょう。

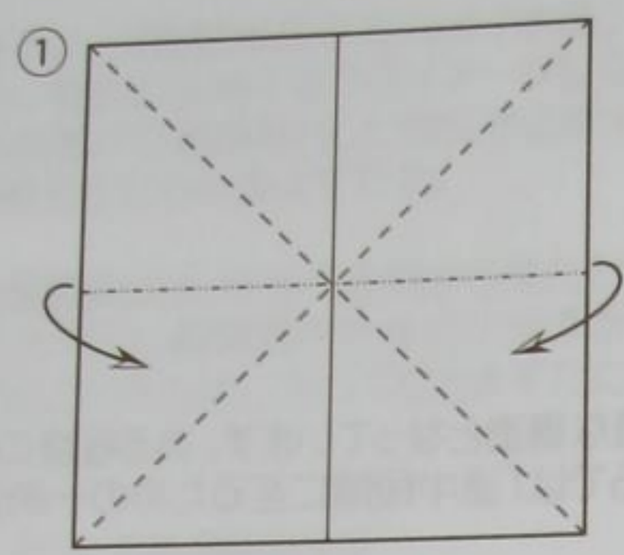


# 祝かぶと

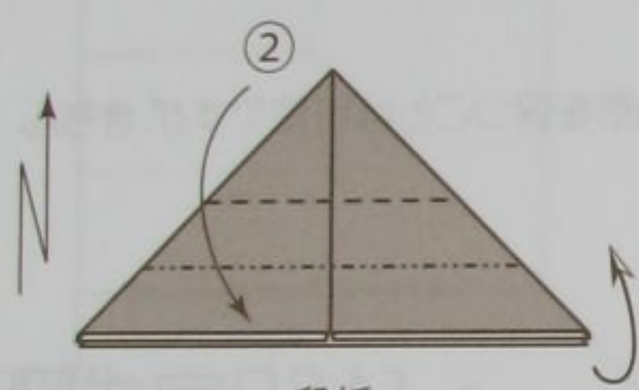
浜田勇

創作H20年01月25日　作図H22年05月15日

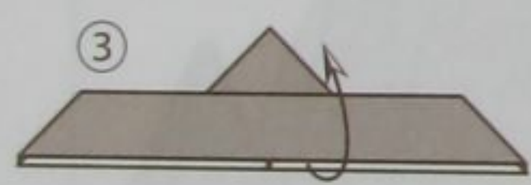





風船の基本形に折る

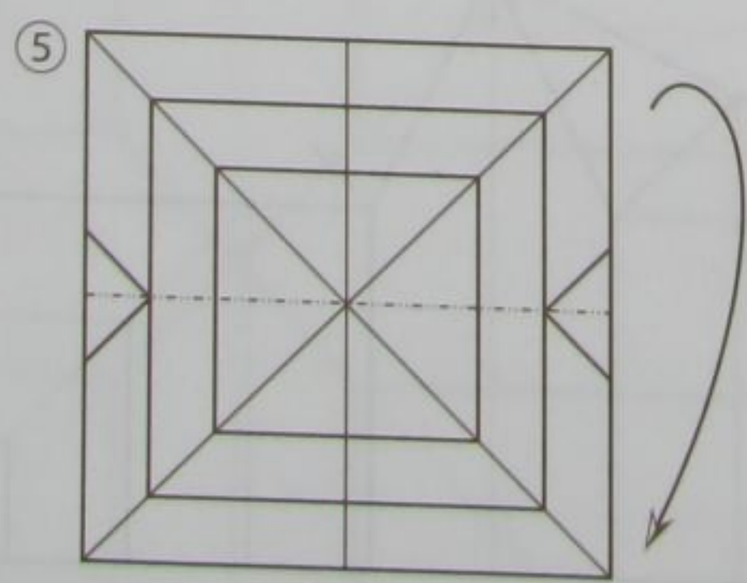



段折

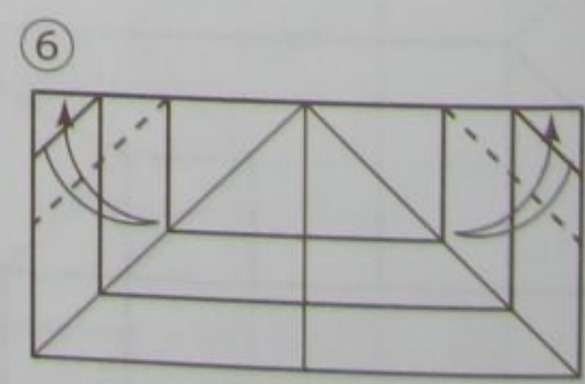



上の一枚を開く

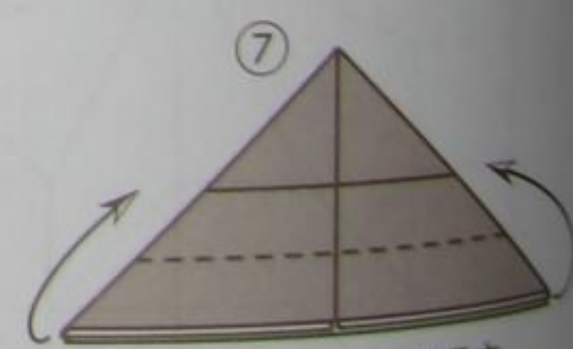
折って戻す全部開く



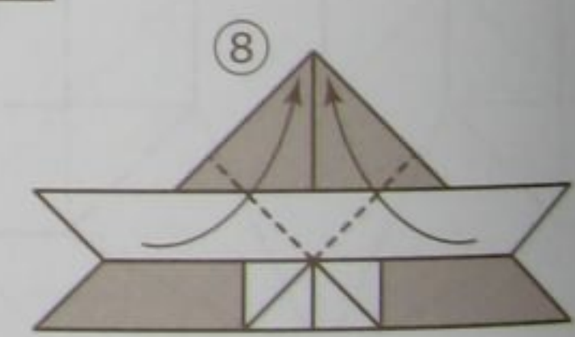

山折



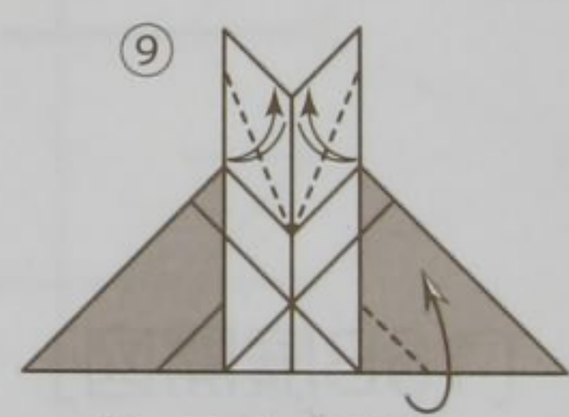

折って戻し②の状態にする



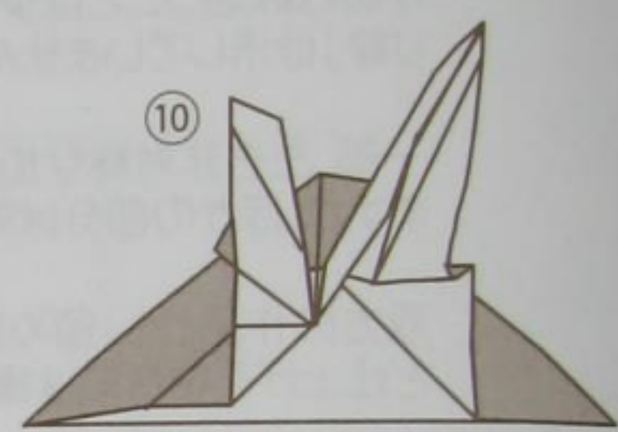

前方をひっくり返す



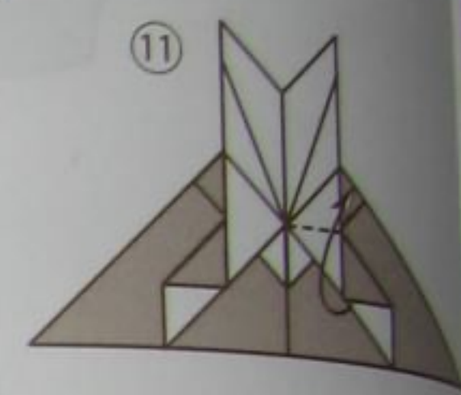

谷折



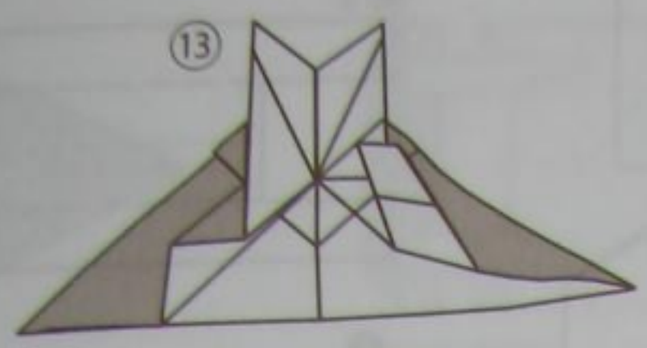

折って戻し中割り折



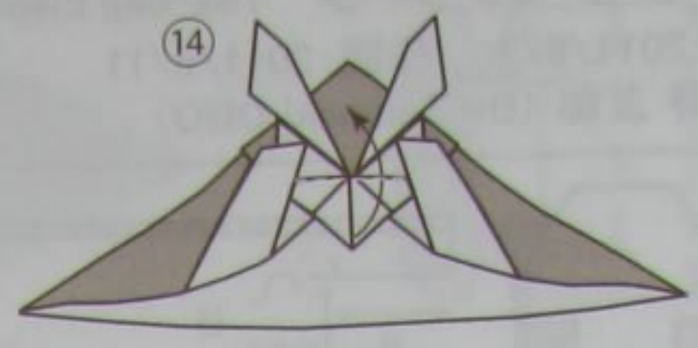

途中図



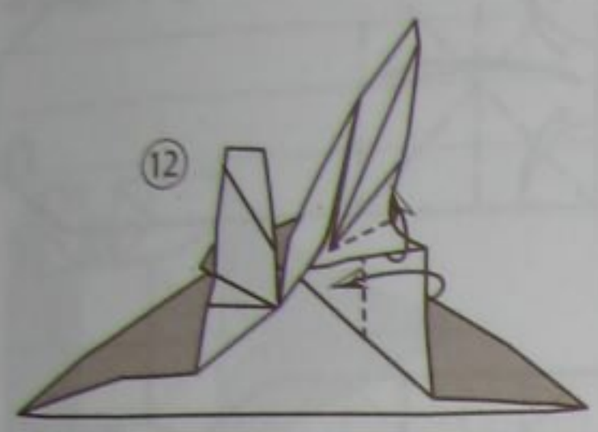

開く



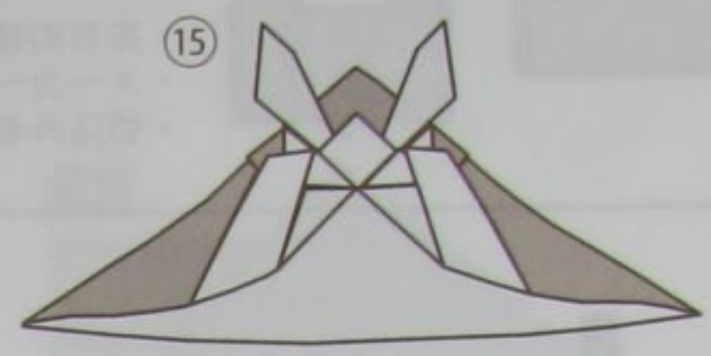

反対側も折る



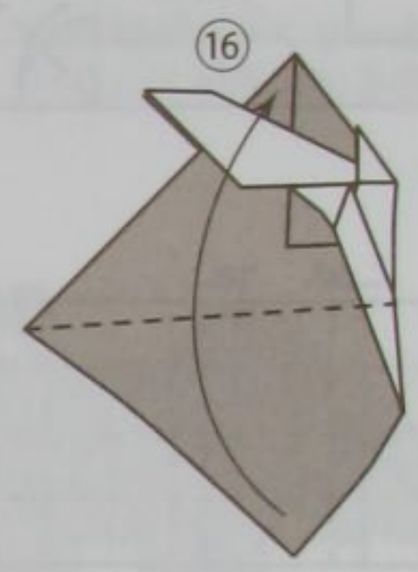

谷折



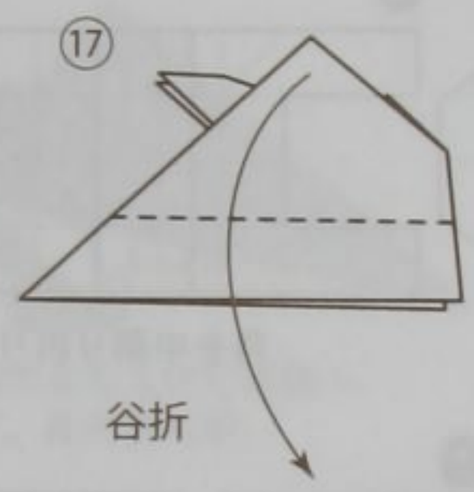

複合折



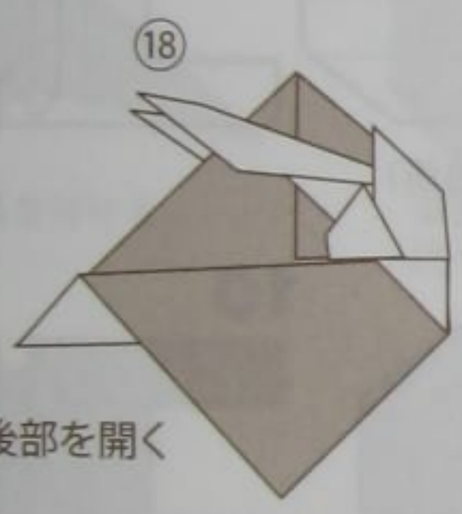

正方基本形側に変える




谷折

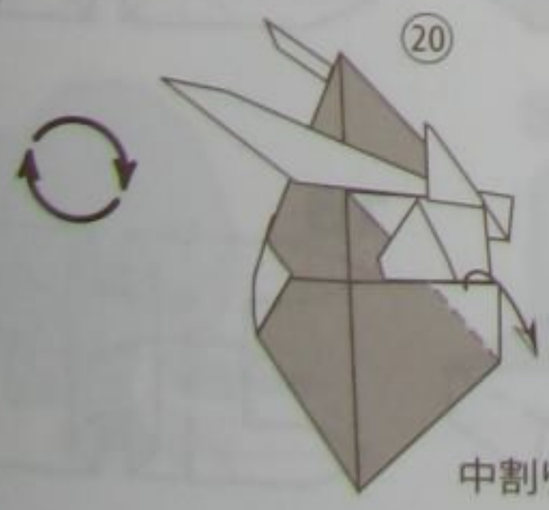



谷折

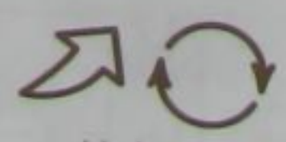



後部を開く

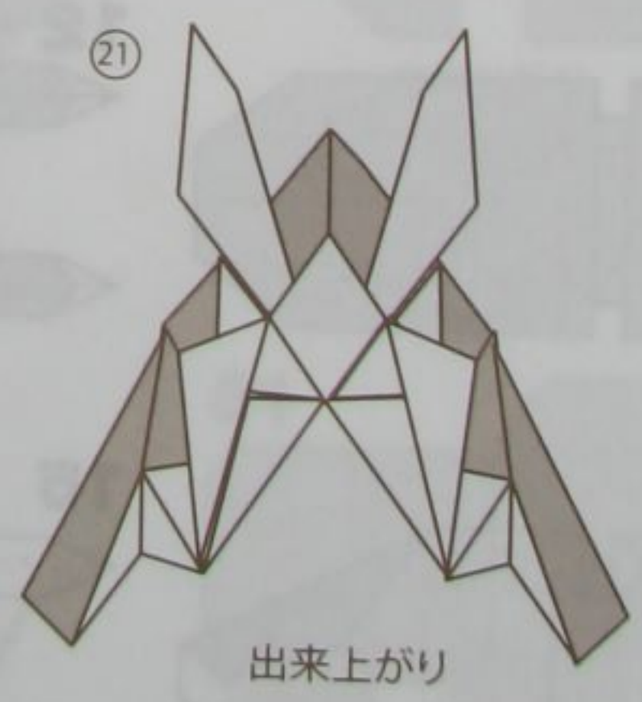
複合折




中割り折



拡大

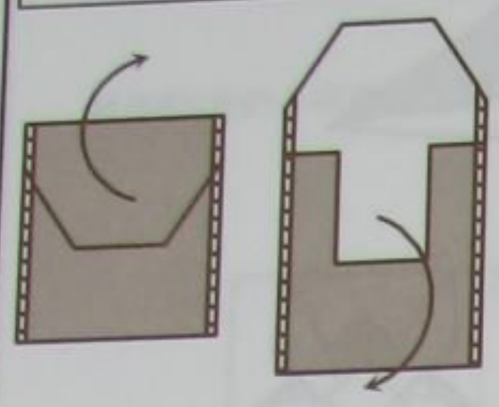


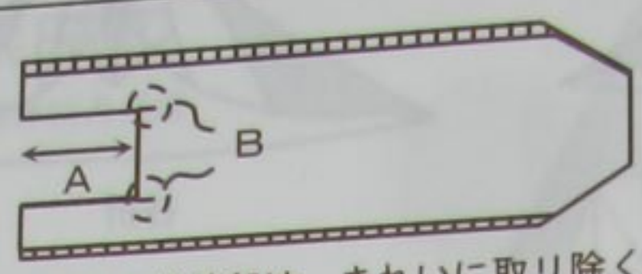

出来上がり

# ティーバッグのゾウ Tea-bag Elephant

創作：2011/6/7　作図：2011/6/11

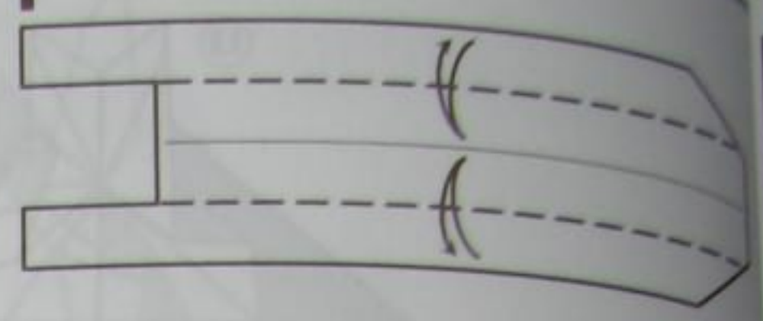
小野 友彰（By Tomoaki ONO）



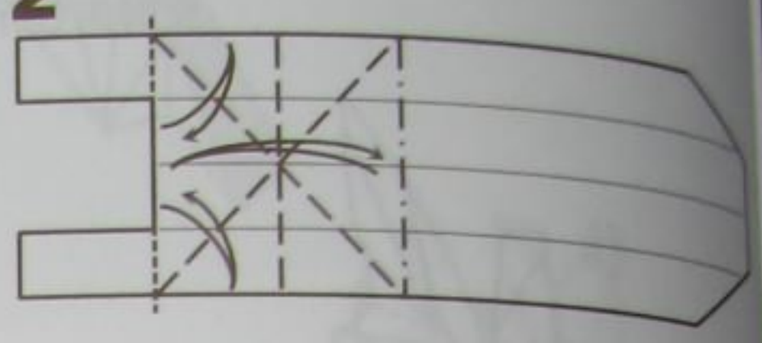



・左右の接着部は，きれいに取り除く。
・メーカーにより，長さＡが多少違います。
・切込みＢは無視して折ってみて下さい。

1



2



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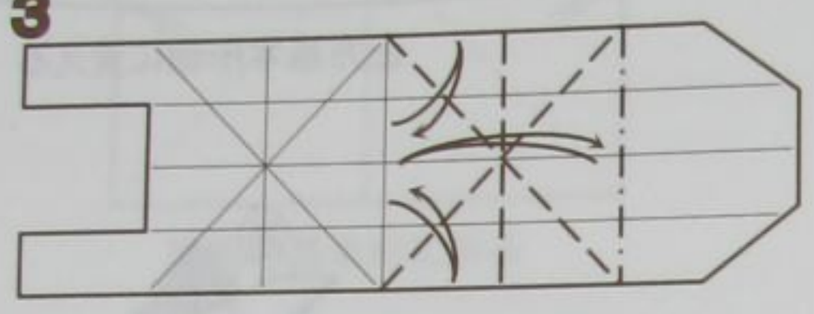
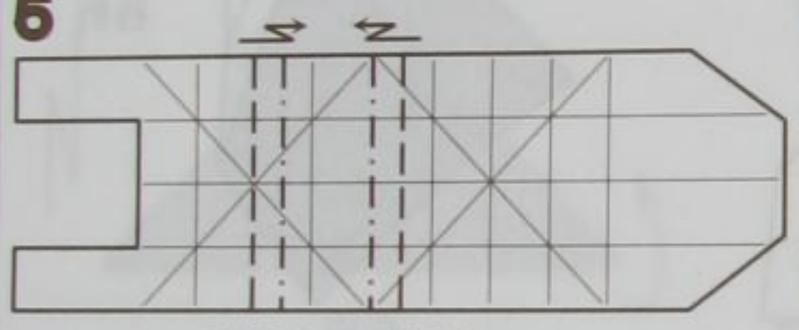


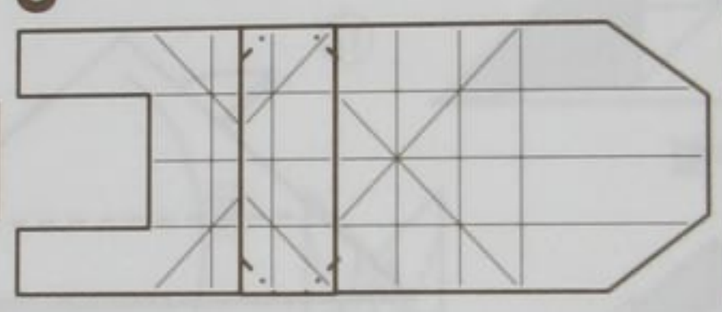
4

5



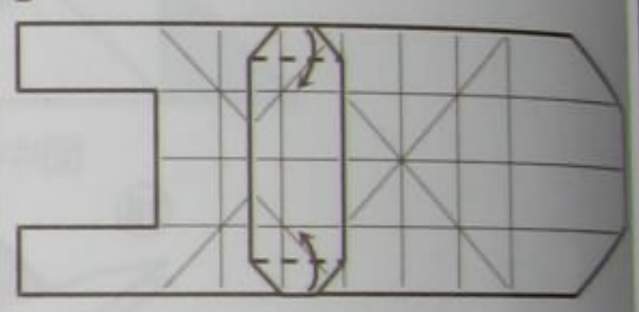
段折り（２箇所）

6

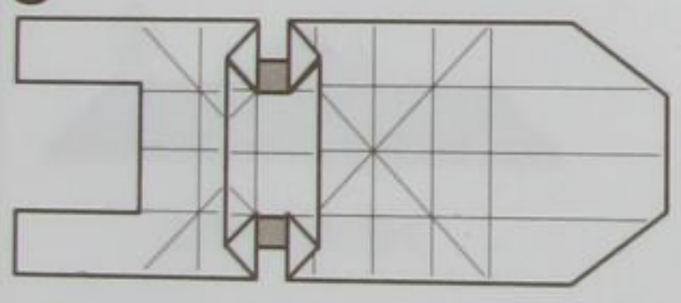


角を中割り折り（４箇所）

7



8



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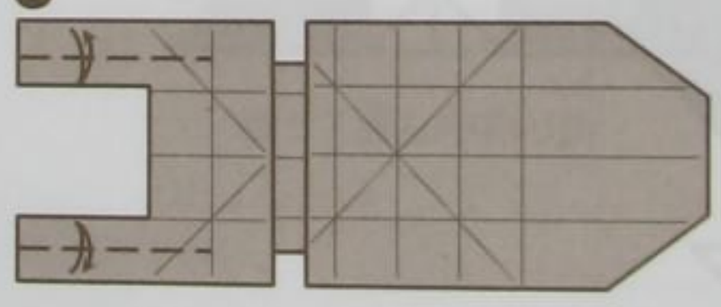

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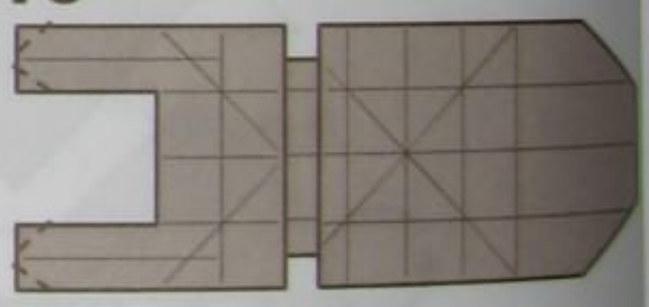

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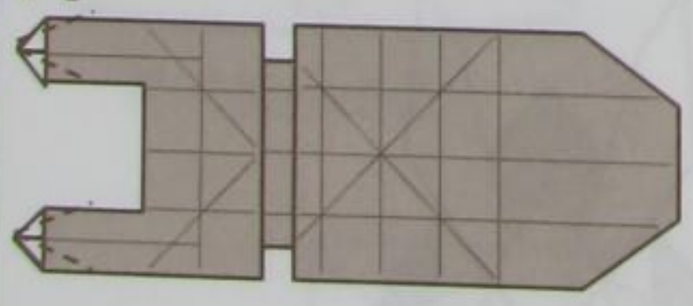
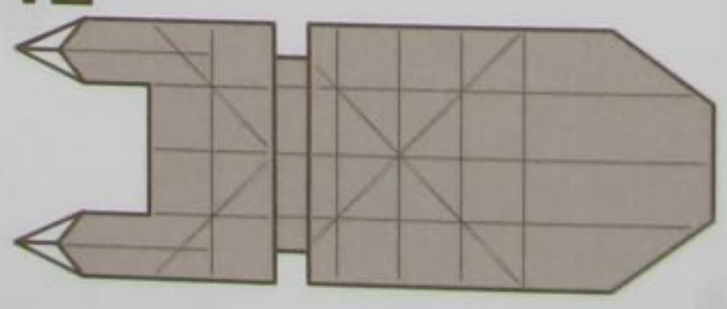
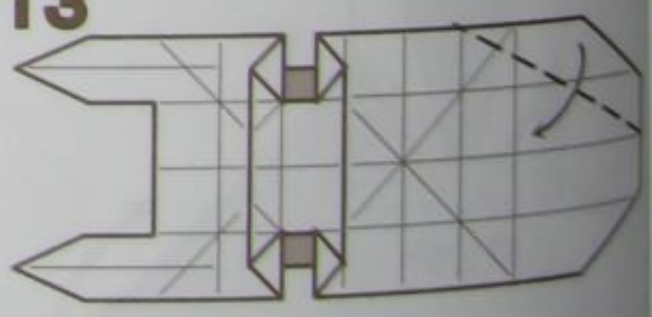


12



13



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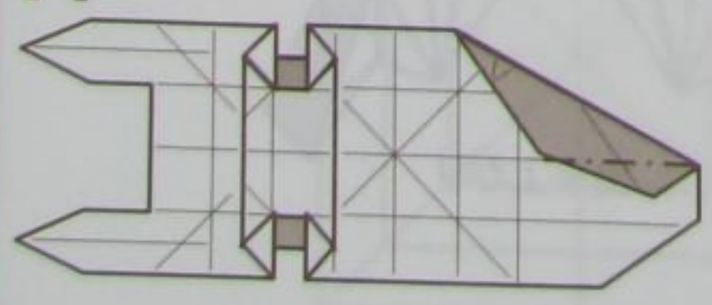
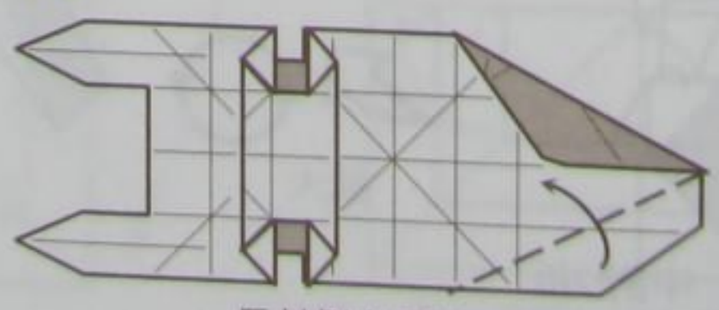


15



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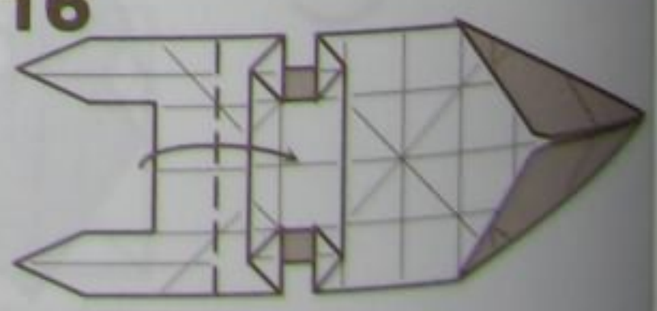
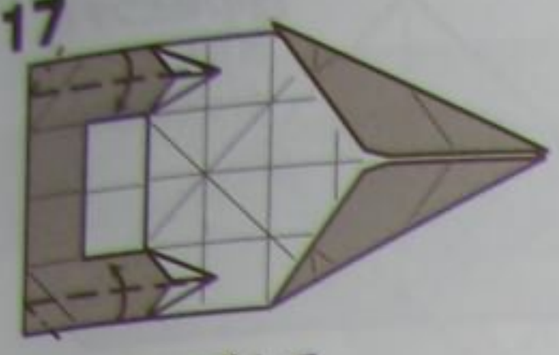


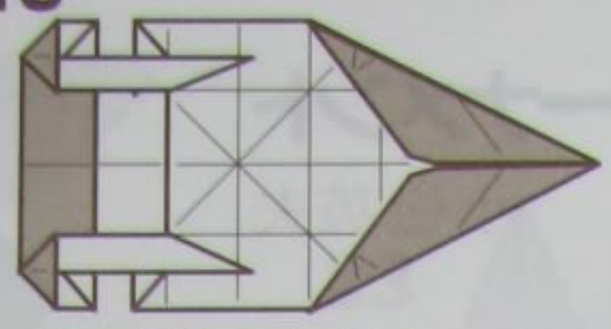
反対側も同じ

**17**



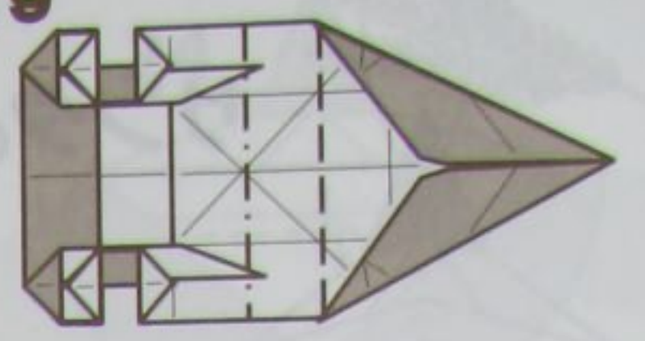
根元を開いて潰して
半分幅にする

**18**

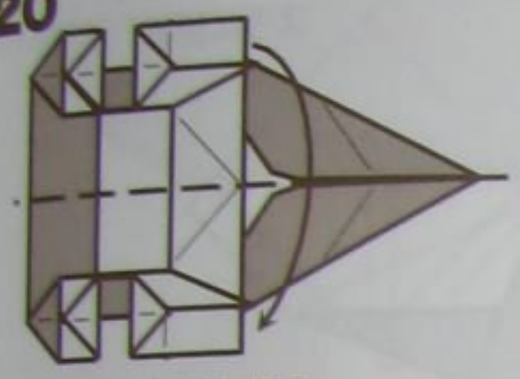


ひだの内側に入れ替える

**19**

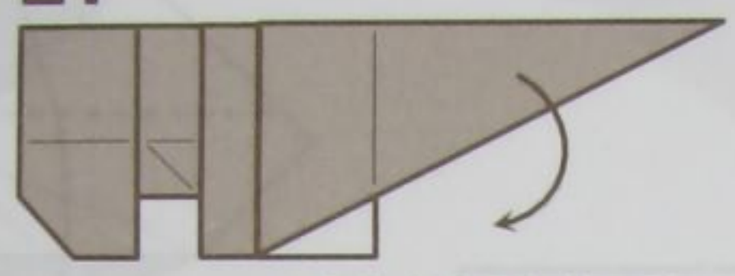


**20**



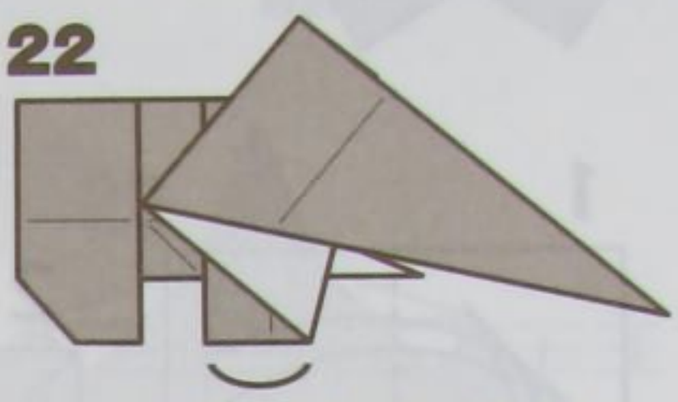
全体を半分に折る
次から少し図を拡大

**21**



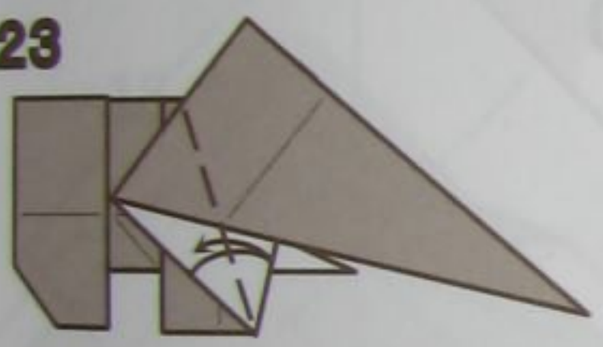
三角部分を回転させる
目安は次図を参照

**22**



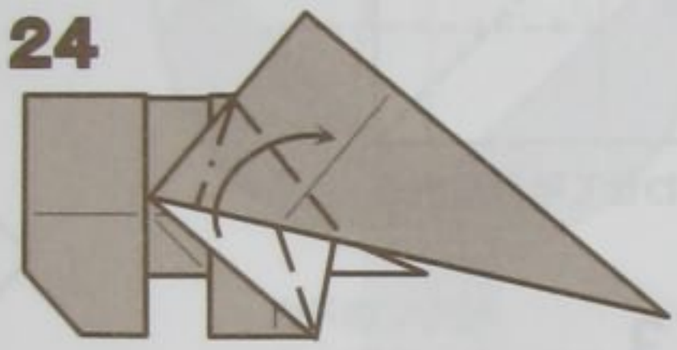
この幅が大きくなり過ぎると
バランスが悪くなるので注意

**23**



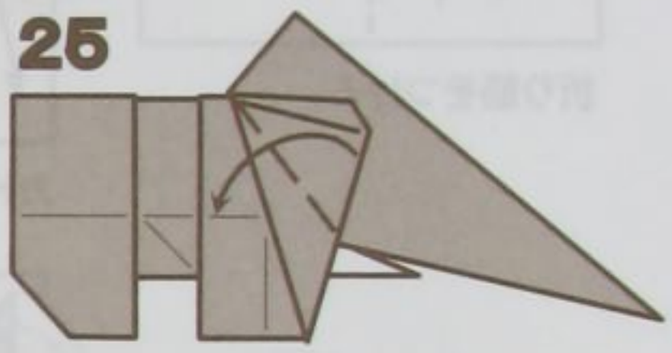
縁を合わせて折り筋を付ける
反対側も同じ

**24**



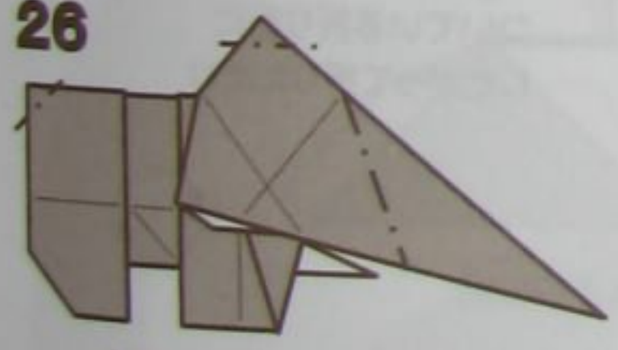
谷折り線で立ち上げて逆側へ
折り返す。反対側も同

**25**



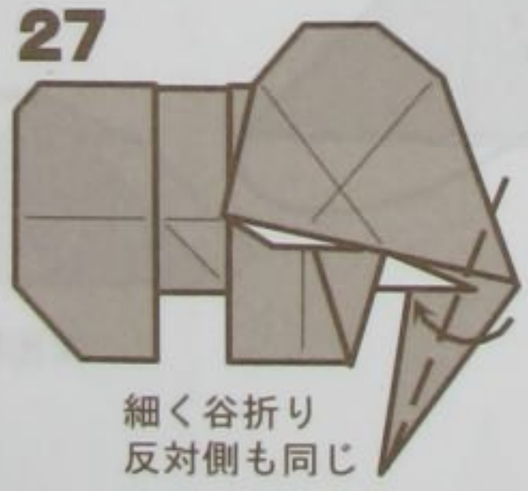
いっぱいのところで折り返す
反対側も同じ

**26**



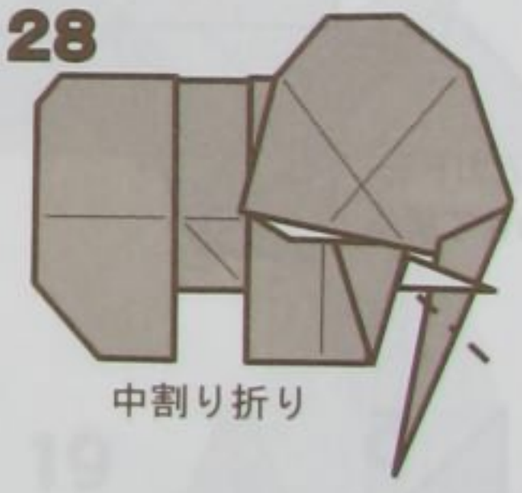
中割り折り（３箇所）

**27**



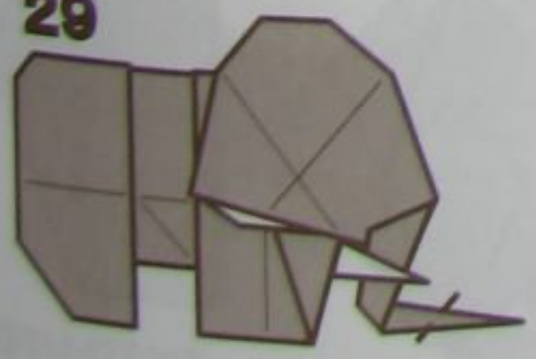
細く谷折り
反対側も同じ

**28**



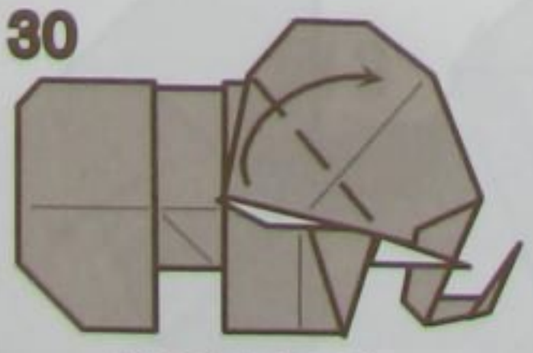
中割り折り

**29**



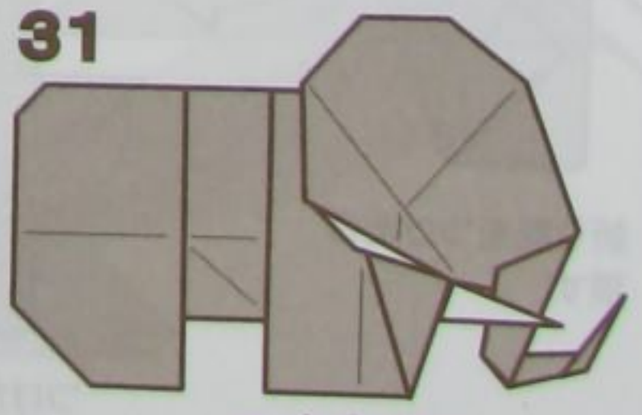
かぶせ折り

**30**



耳を少し立てる

**31**

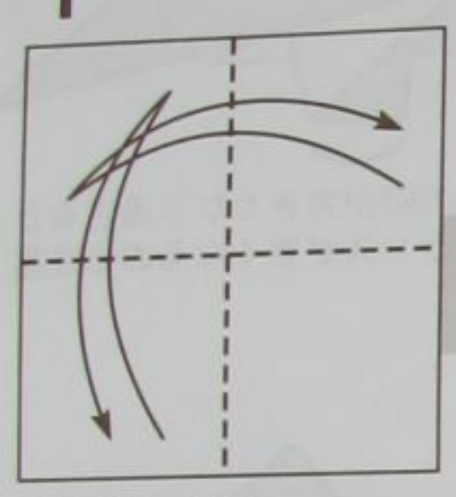


できあがり

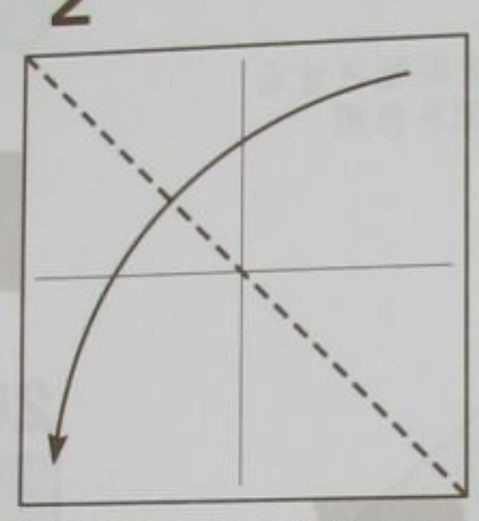
# サンタのオーナメント

小松英夫

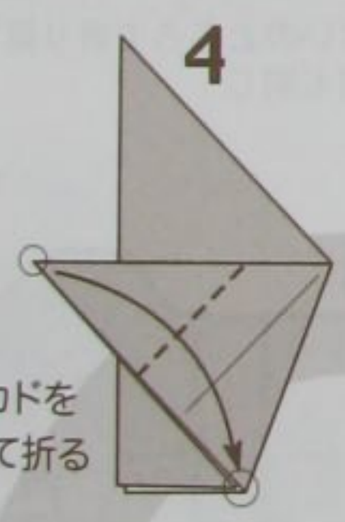
Santa Claus Ornament
by Hideo Komatsu, 2010



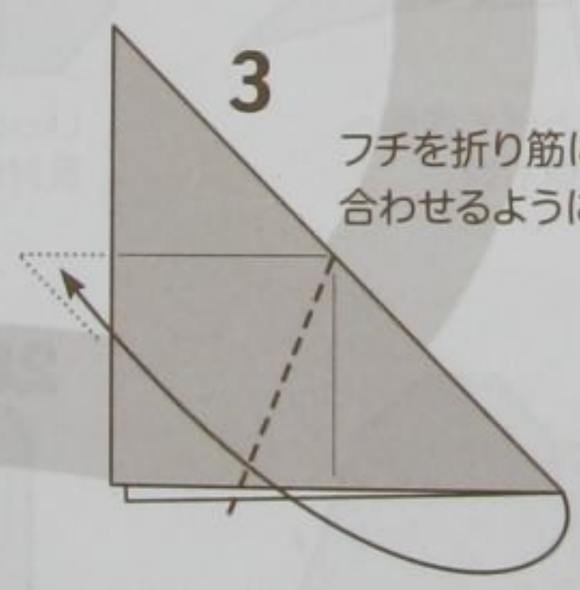

折り筋をつける



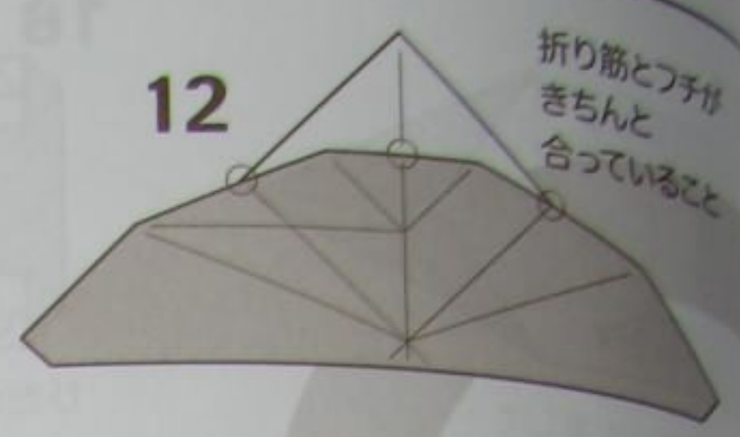

カドを合わせて半分に折る



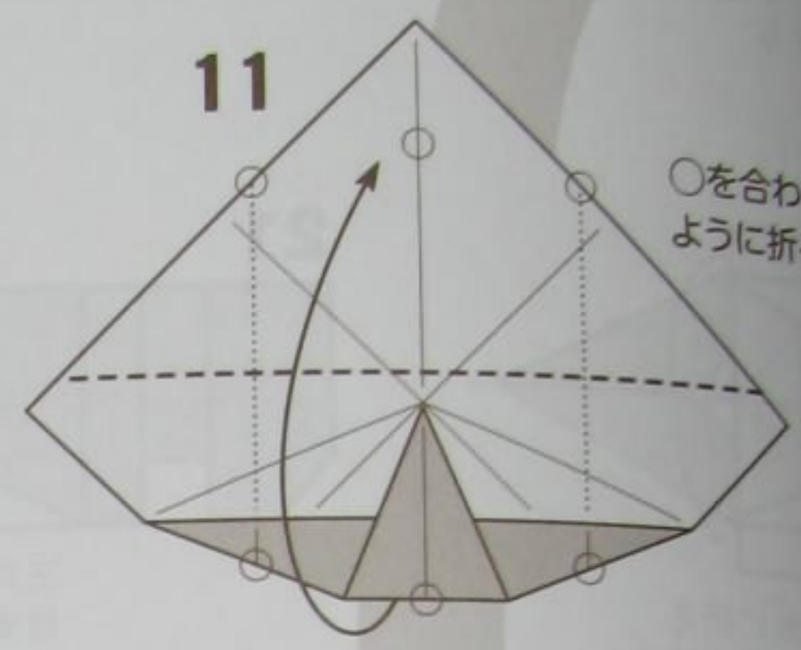

カドとカドを
合わせて折る



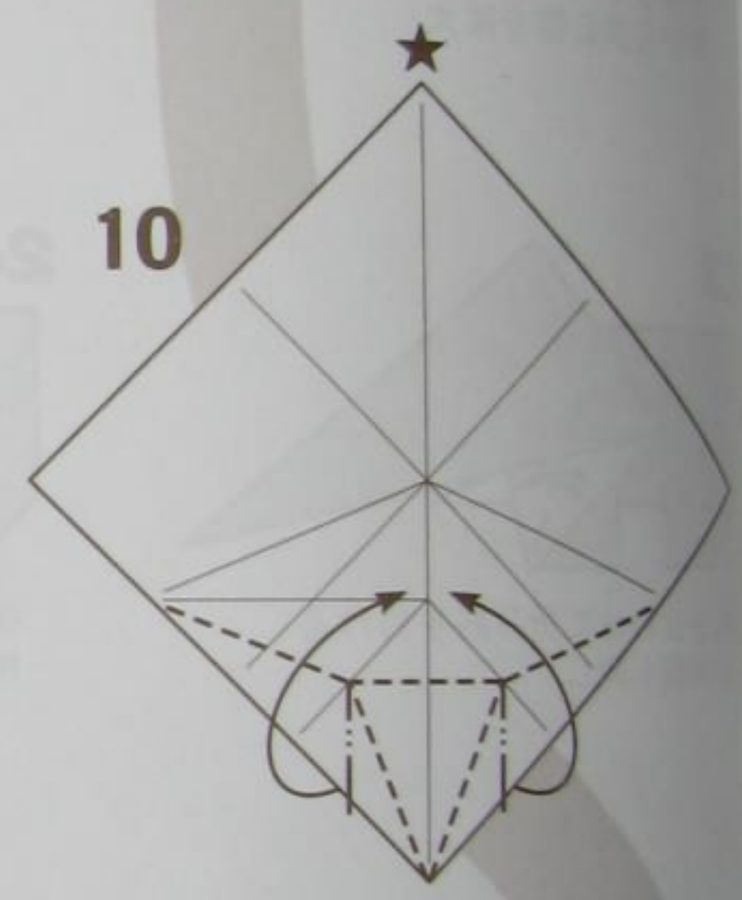

フチを折り筋に
合わせるように折る



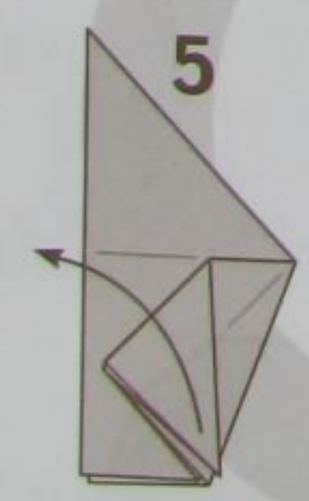

折り筋とフチが
きちんと
合っていること



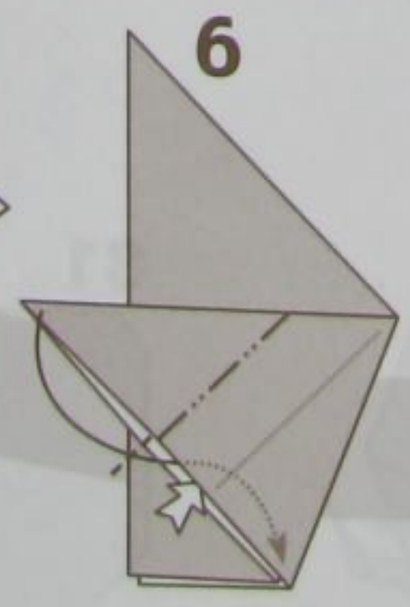

○を合わせる
ように折る



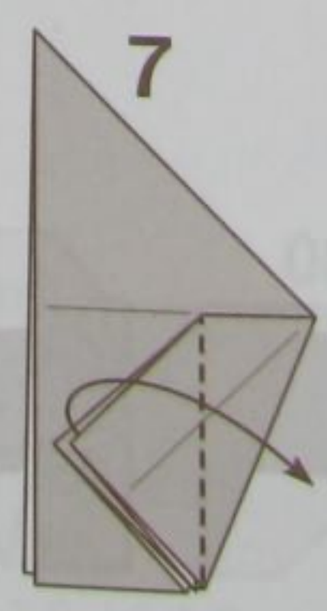

ついている折り筋に
したがって折りたたむ



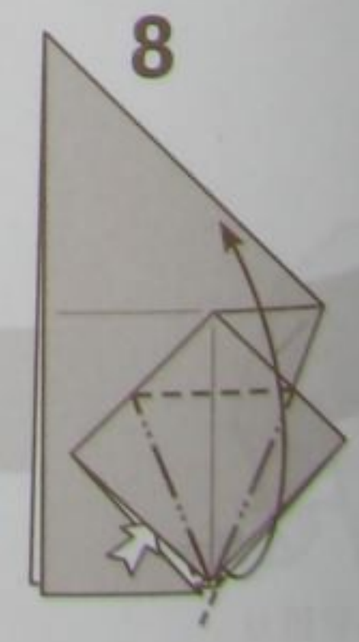

折り筋をつけたら
戻す




つけた折り筋で
中割り折り

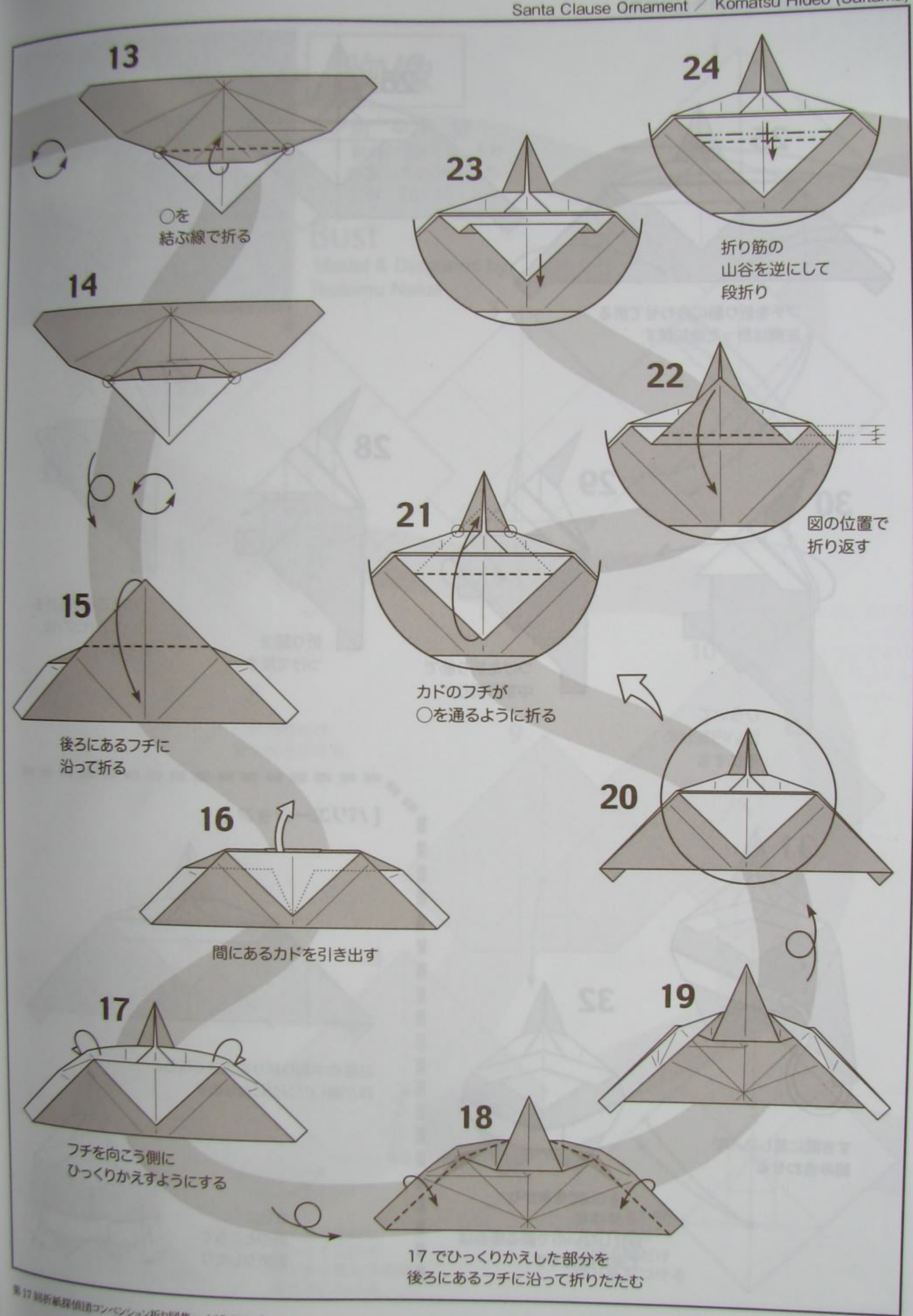


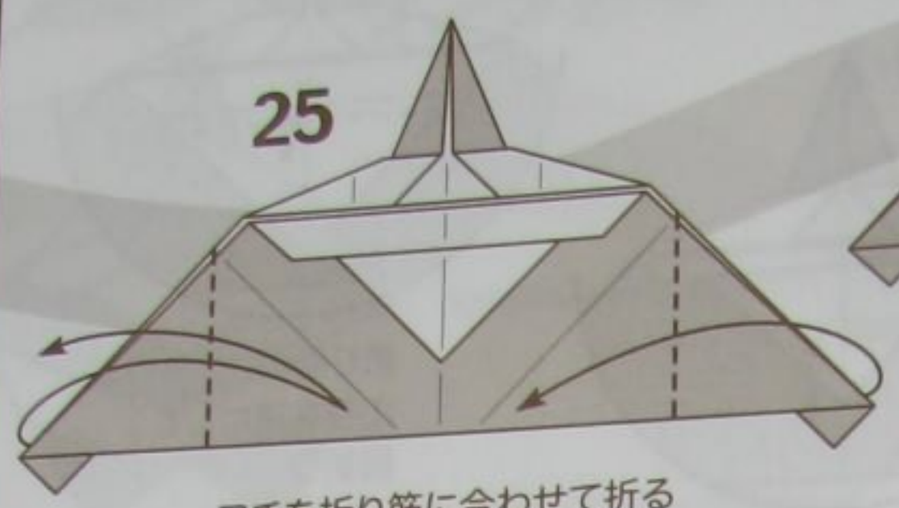

ひらくところで
折り返す

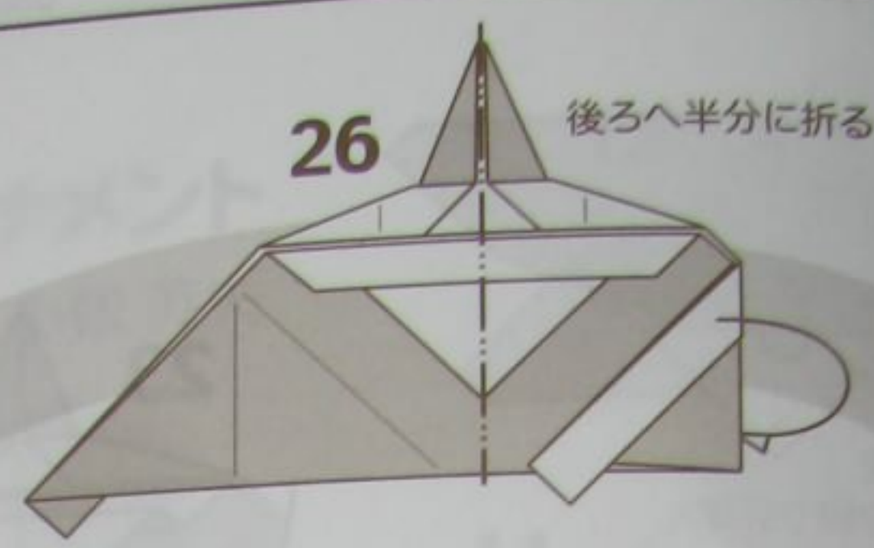


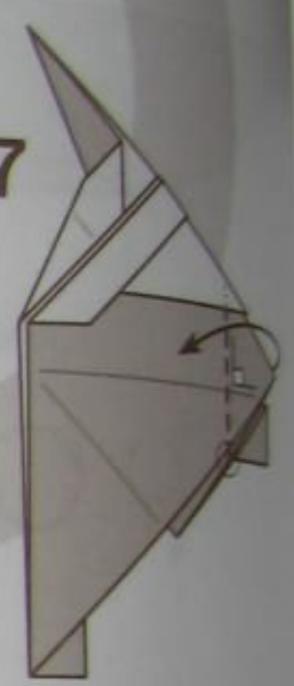

花弁折り

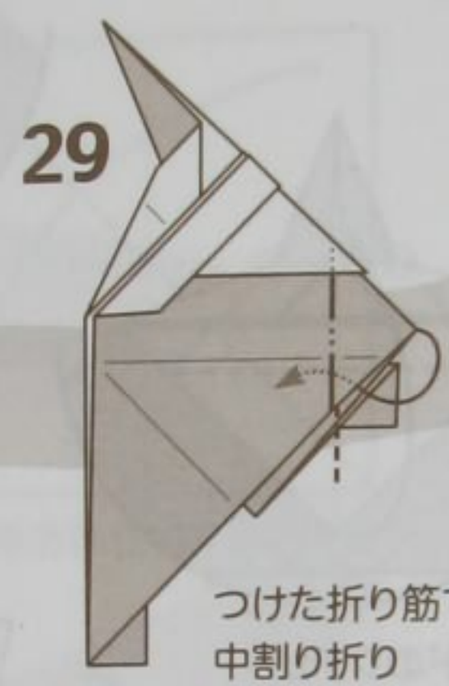
すべてひろげる

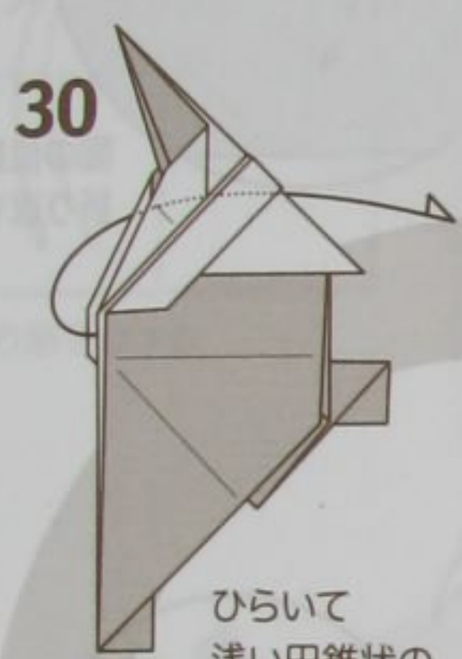

13
○を
結ぶ線で折る
14
15
後ろにあるフチに
沿って折る
16
間にあるカドを引き出す
17
フチを向こう側に
ひっくりかえすようにする
18
17でひっくりかえした部分を
後ろにあるフチに沿って折りたたむ
19
20
21
カドのフチが
○を通るように折る
22
図の位置で
折り返す
23
24
折り筋の
山谷を逆にして
段折り



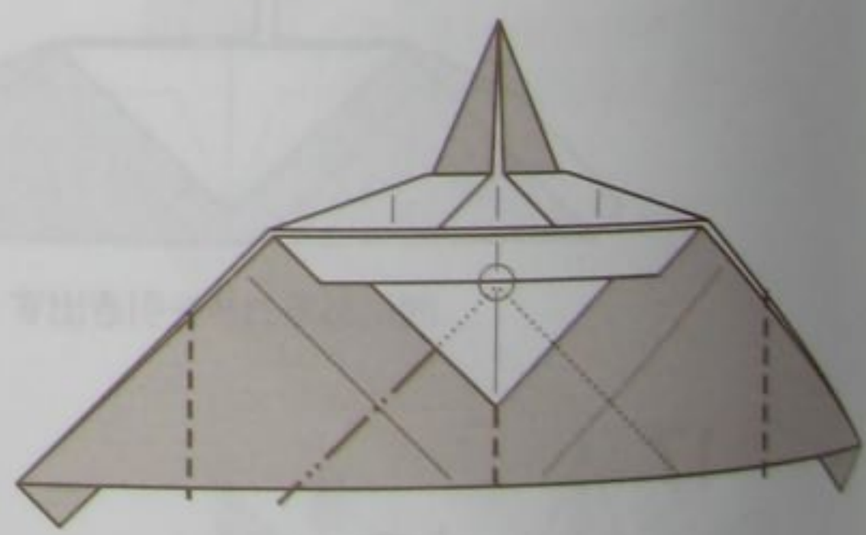





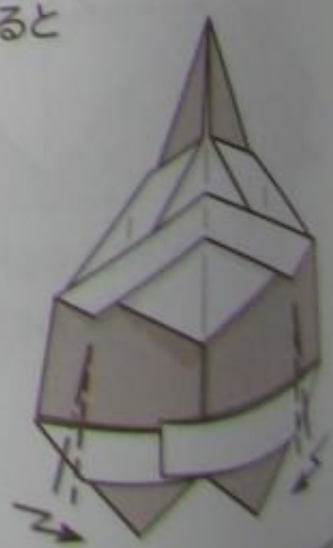



自立しないので飾る場合は
工夫が必要です

[ バリエーション ]



お腹の中割り折りを大きく取ると
背が高いサンタになります



さらに
腕のところで
段折りしたり

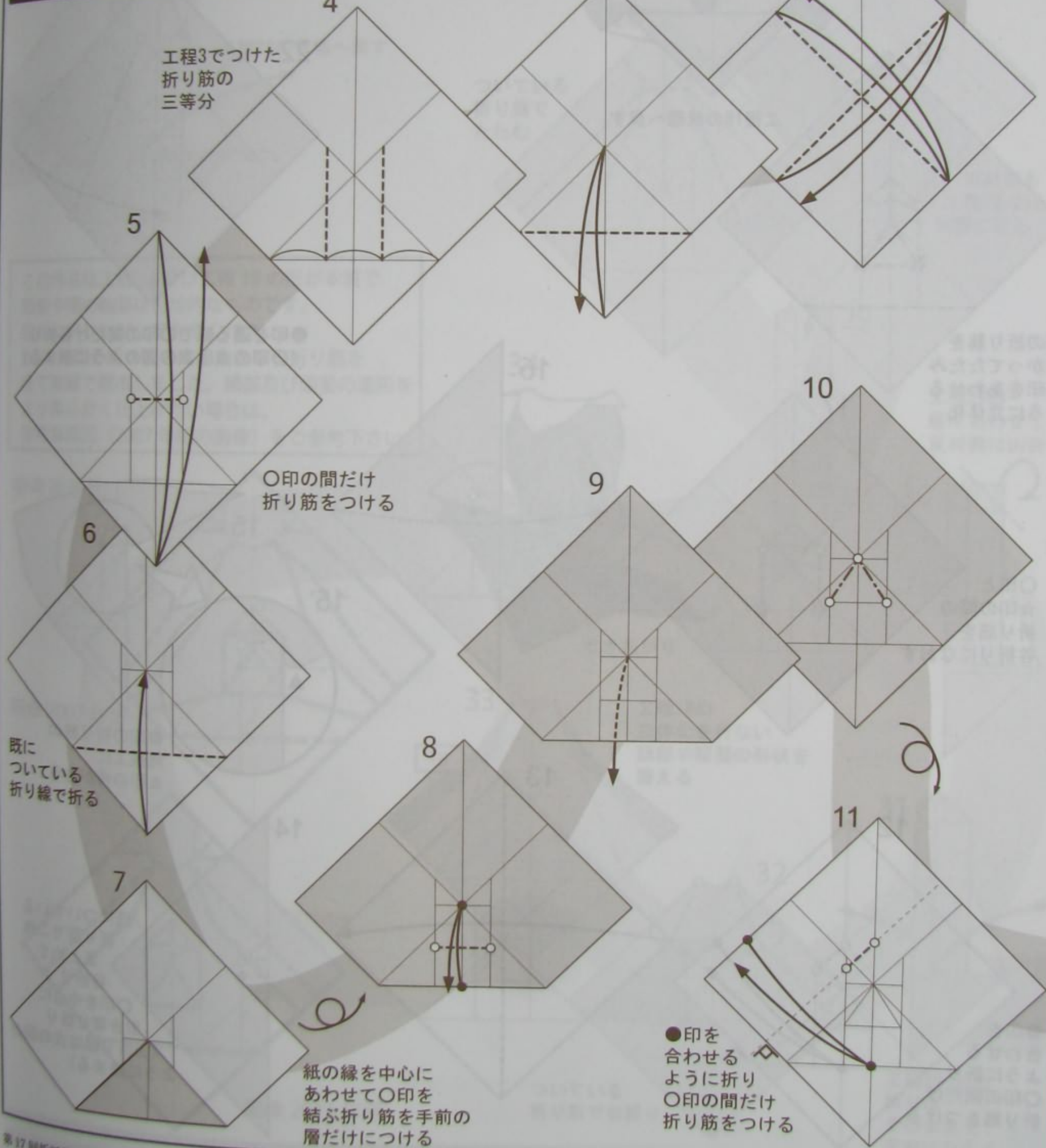
# 胸像

作／図　中井　努

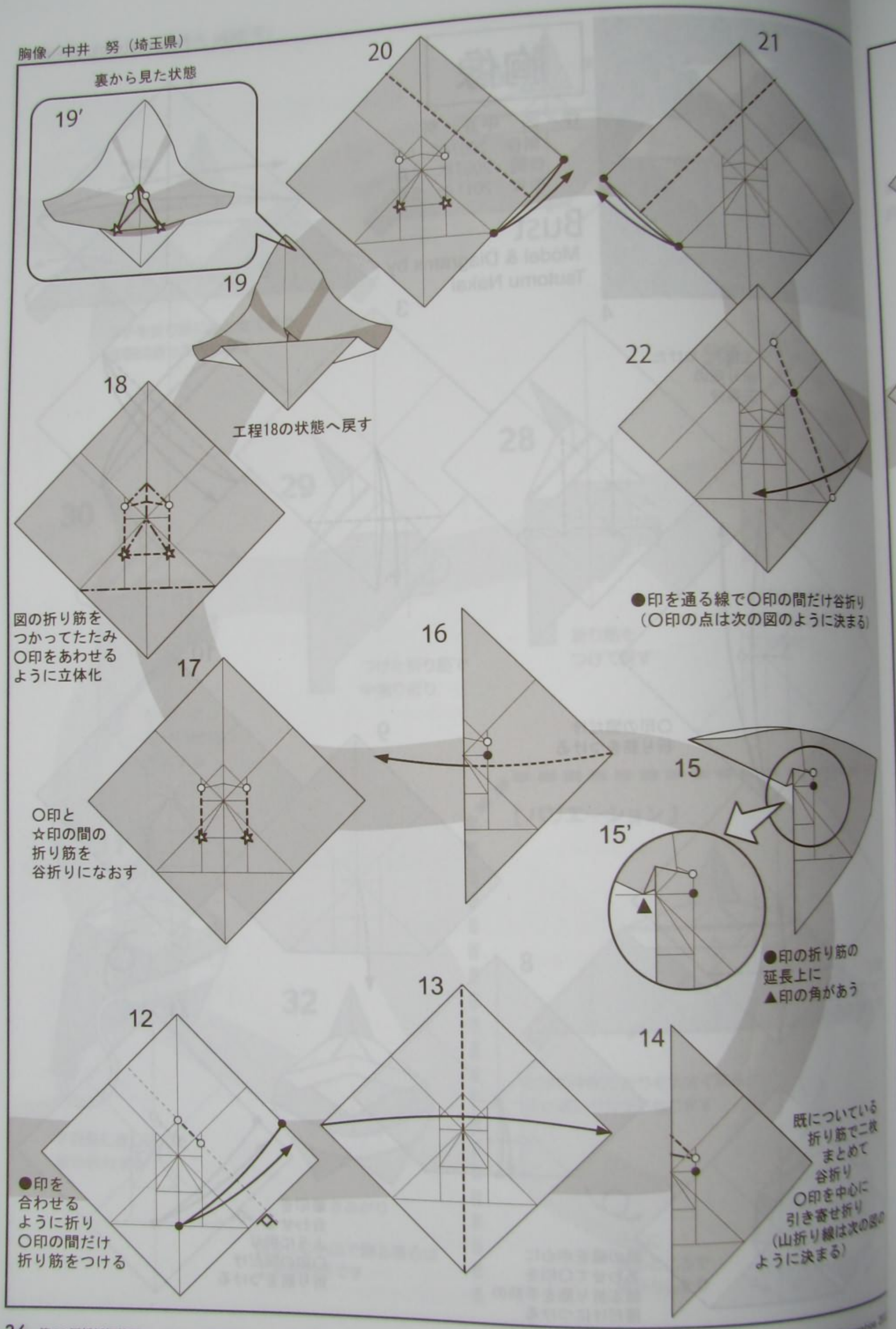
創作　2007年　6月
作図　2007年　8月
改作　2011年　5月

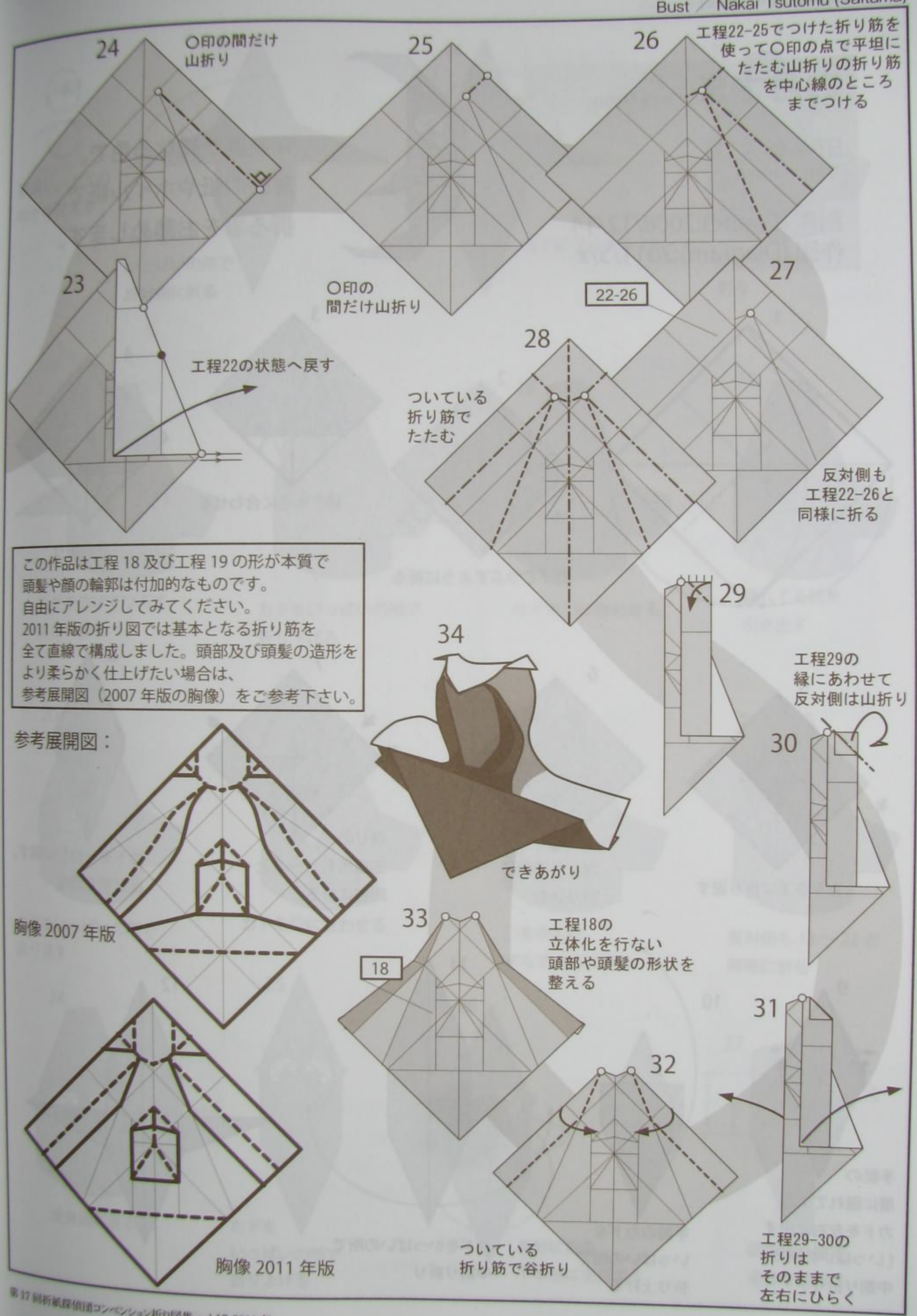
## Bust

Model & Diagrams by
Tsutomu Nakai



胸像／中井　努（埼玉県）


裏から見た状態
19′
19
20
21
22
18
工程18の状態へ戻す
図の折り筋を
つかってたたみ
〇印をあわせる
ように立体化
●印を通る線で〇印の間だけ谷折り
（〇印の点は次の図のように決まる）
16
17
〇印と
☆印の間の
折り筋を
谷折りになおす
15
15′
●印の折り筋の
延長上に
▲印の角があう
13
12
14
●印を
合わせる
ように折り
〇印の間だけ
折り筋をつける
既についている
折り筋で二枚
まとめて
谷折り
〇印を中心に
引き寄せ折り
（山折り線は次の図の
ように決まる）




この作品は工程 18 及び工程 19 の形が本質で
頭髪や顔の輪郭は付加的なものです。
自由にアレンジしてみてください。
2011 年版の折り図では基本となる折り筋を
全て直線で構成しました。頭部及び頭髪の造形を
より柔らかく仕上げたい場合は、
参考展開図（2007 年版の胸像）をご参考下さい。

参考展開図：

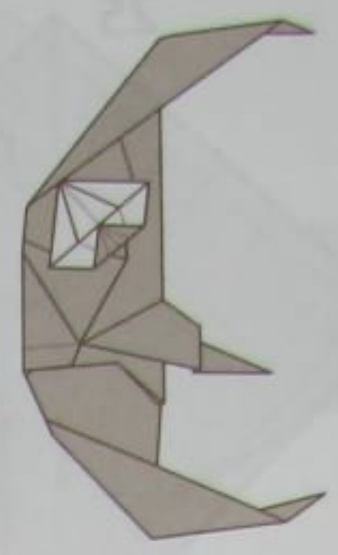
胸像 2007 年版

胸像 2011 年版

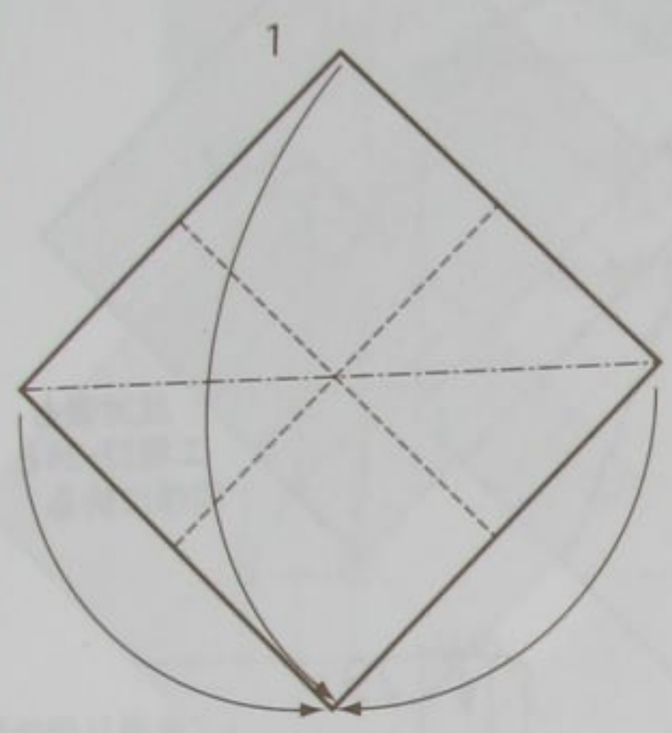
# お月さま Fancy Moon

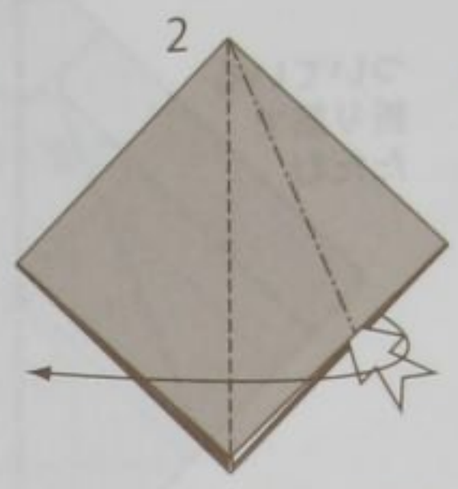
田中 幹人
Mikito Tanaka

創作 (Create):2008/12/14
作図 (Diagram):2011/5/x

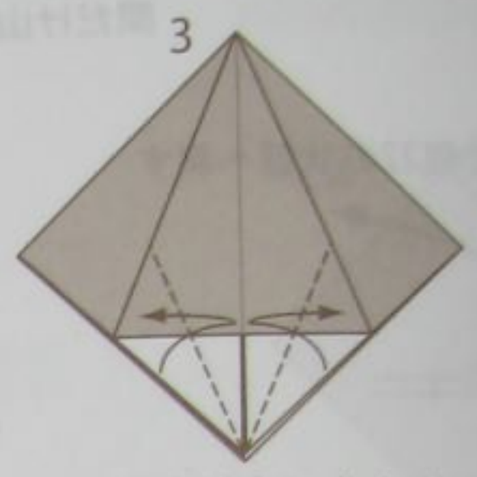


☆表裏が異なる色で、
薄めの紙やホイル紙で
折る事をお薦めします。



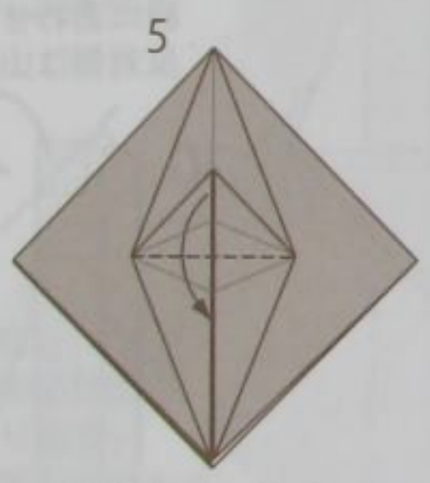




広げてつぶすように折る

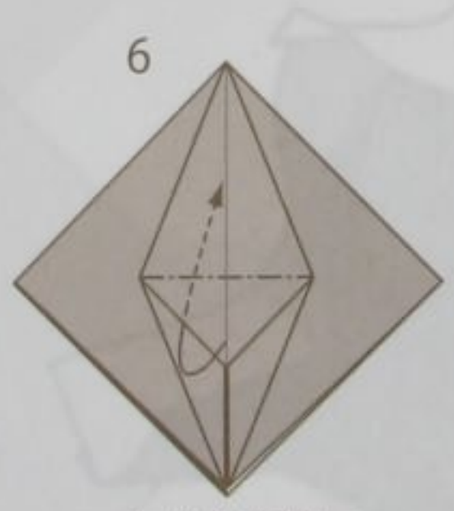



縁を中心に合わせる

花弁折り



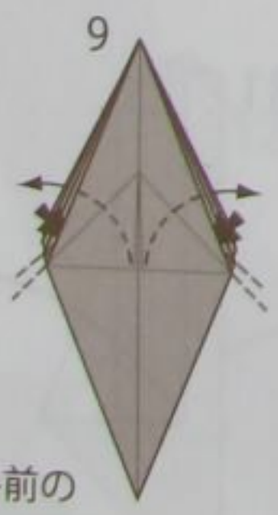

カドを下に折り返す



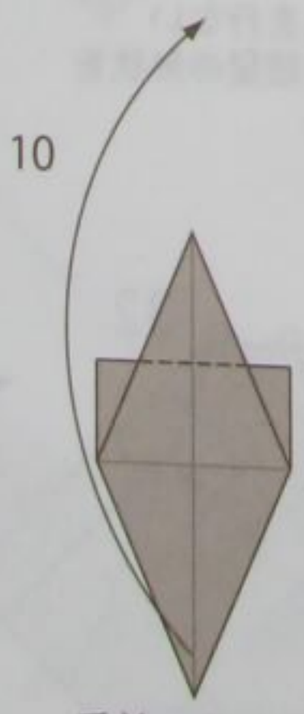

カドを内側に
折り込む

残りの
三箇所も２～６と
同様に折る

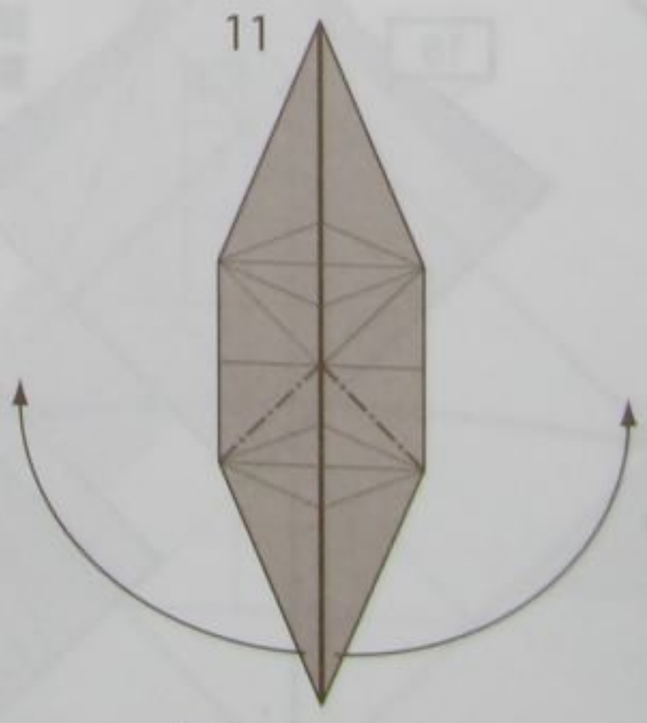
カドを一枚左に倒す
反対側も同様



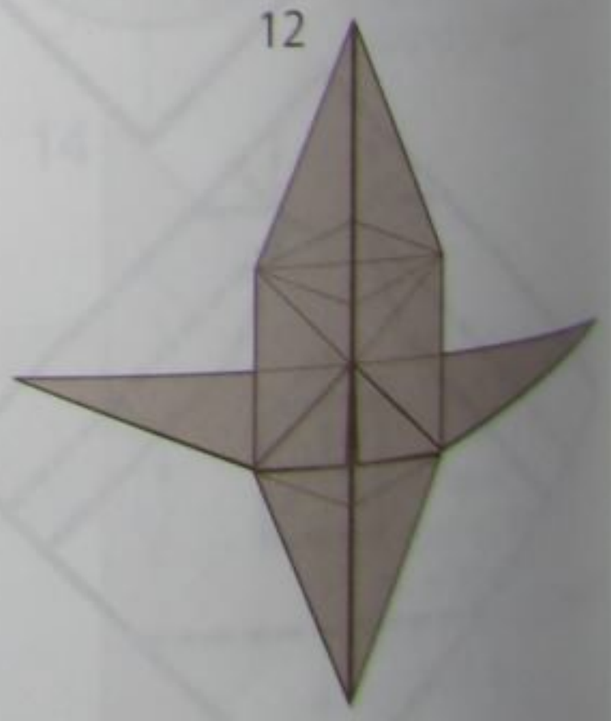

手前の
層に隠れている
カドを左右に出す
（いっぱいの所で
中割り折り）

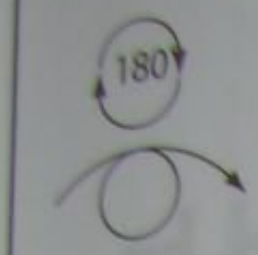



手前のカドを
いっぱいの所で
折り上げる



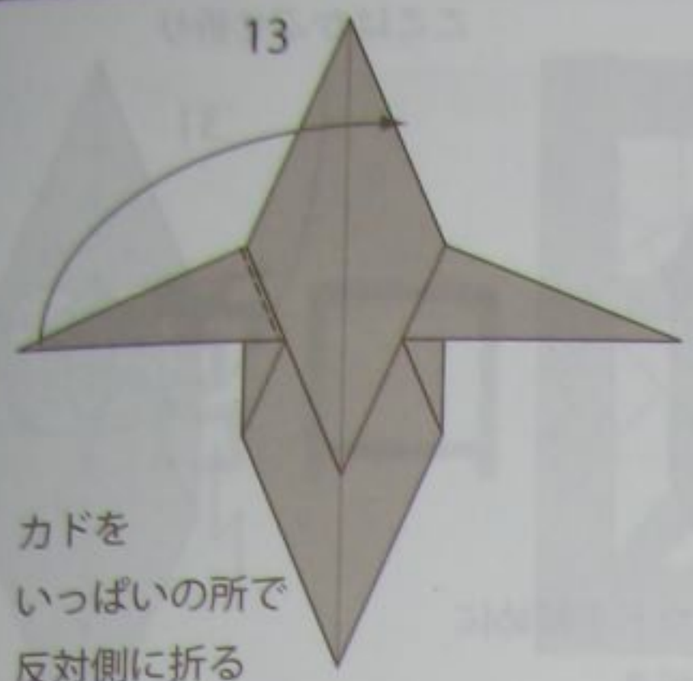

カドをいっぱいの所で
中割り折り






裏返し、上下の
向きを変える

13

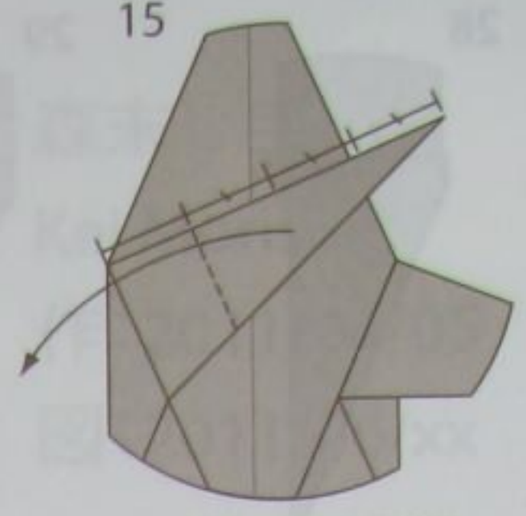


カドを
いっぱいの所で
反対側に折る

14

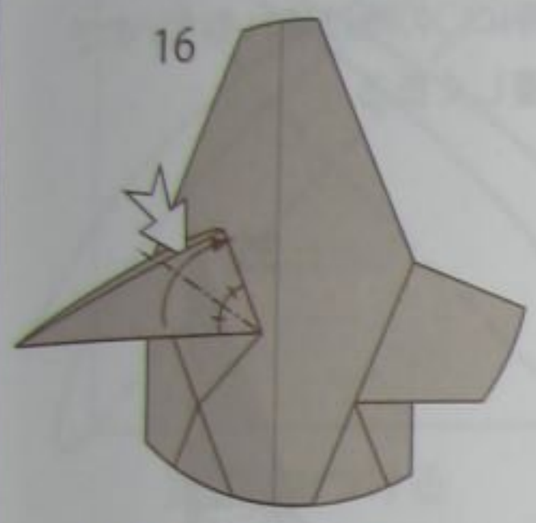
カドに注目する

15



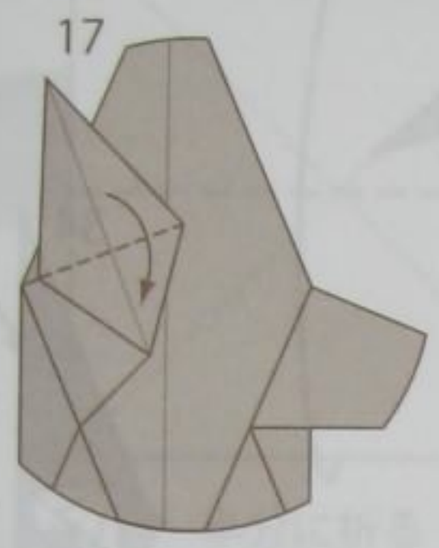
カドを 1/4 の所で
折る

16



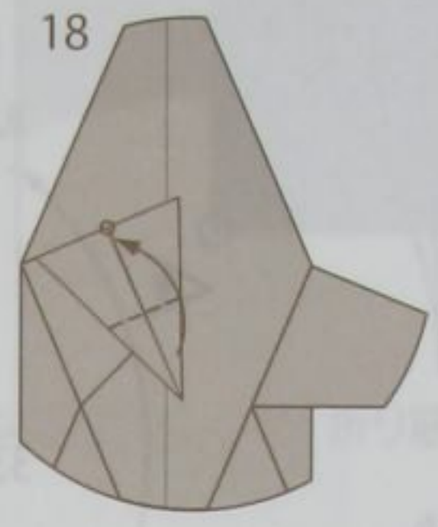
カドを広げてつぶす
ように折る

17



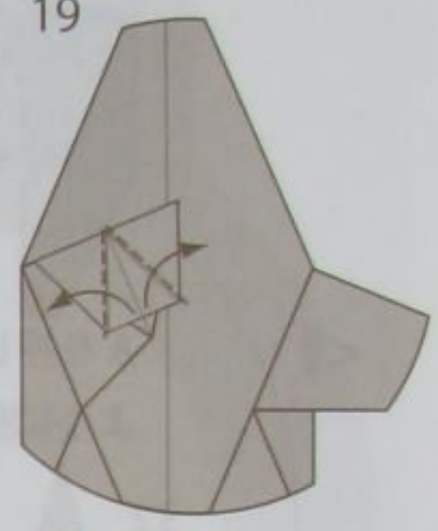
カドをいっぱいの所で
折り下げる

18



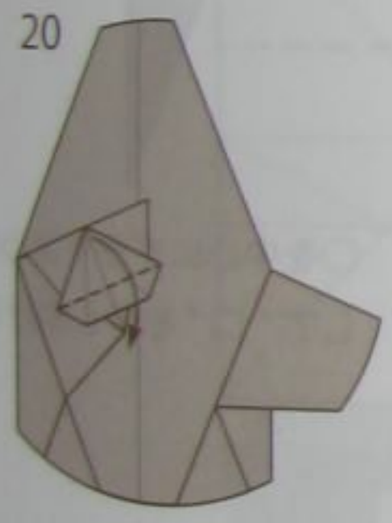
カドを○に合わせる

19



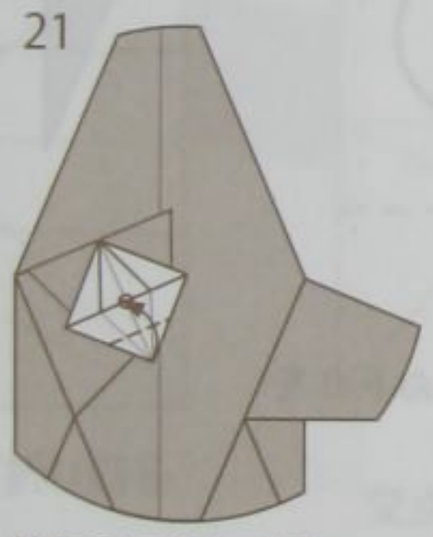
隠れてる紙を
引き出す

20



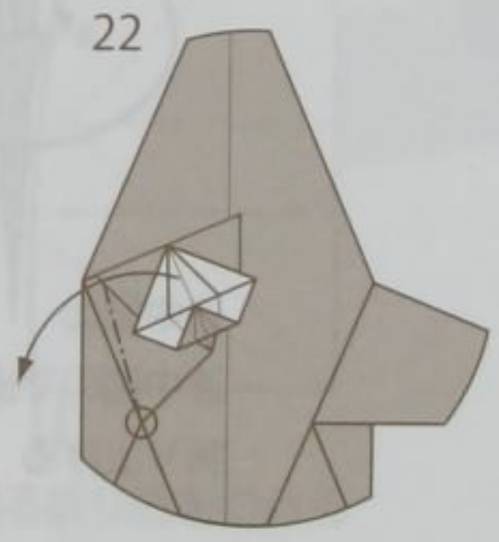
カドをいっぱいの所で
折り返す

21



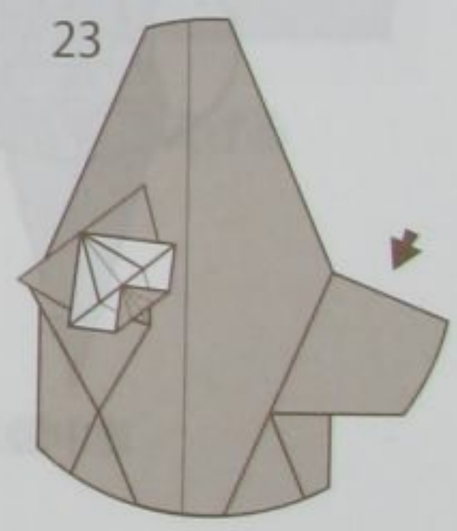
カドを○に合わせる

22



○を中心に
ずらすように折る

23

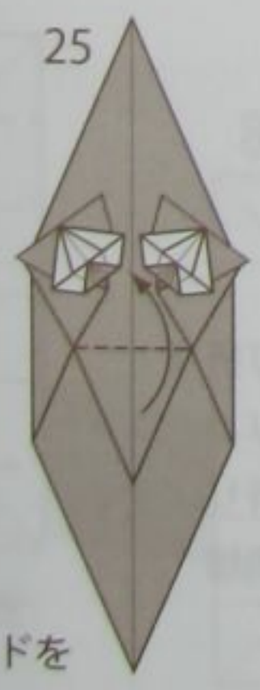


反対側も 13 ～ 22 と
同様に折る

24

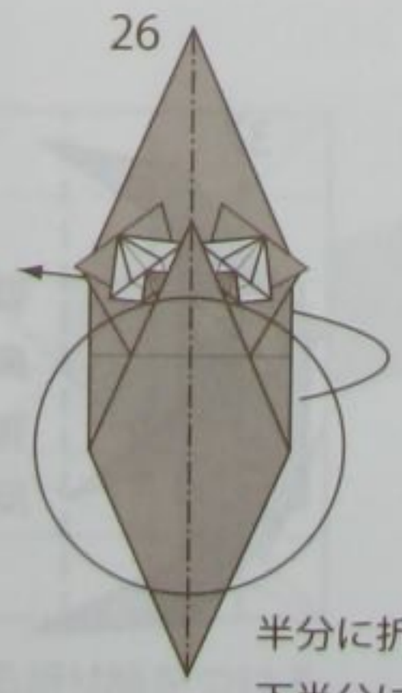
全体図に戻る

25



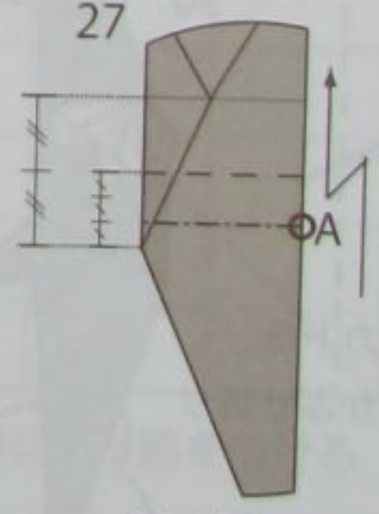
カドを
いっぱいの所で
折り上げる

26



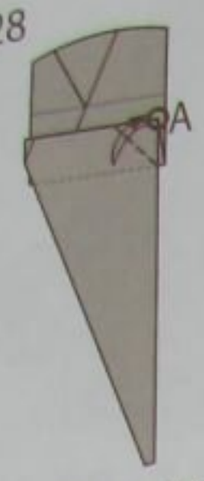
半分に折る
下半分に注目する

27




図の折り線で
全体を段折り

28

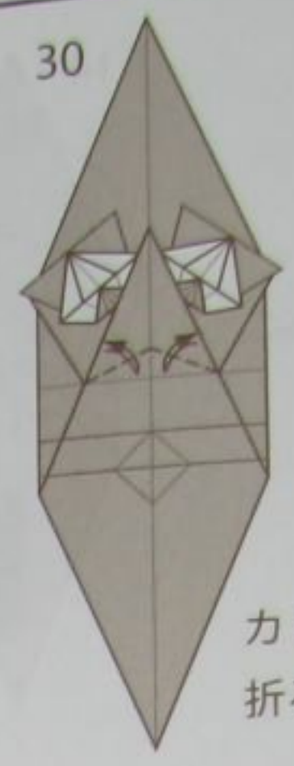



カドAをいっぱいの
所で折る

29

26の形に戻す
全体図に戻る

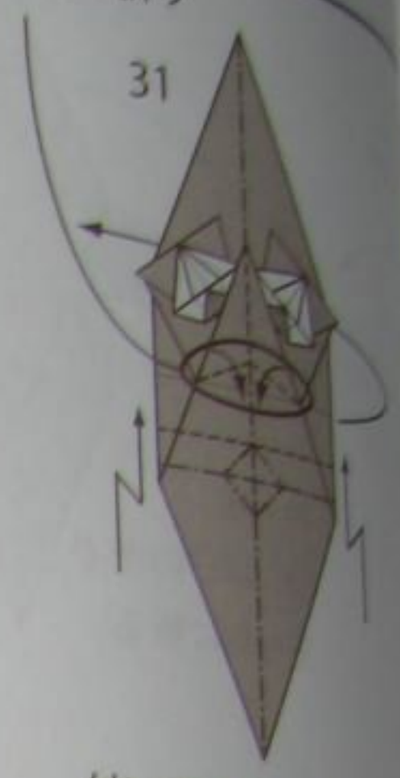
30



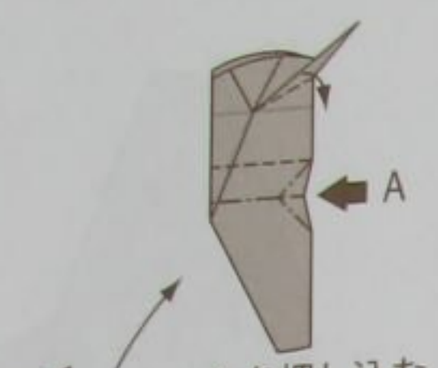
カドを斜めに
折る

ここはかぶせ折り

31

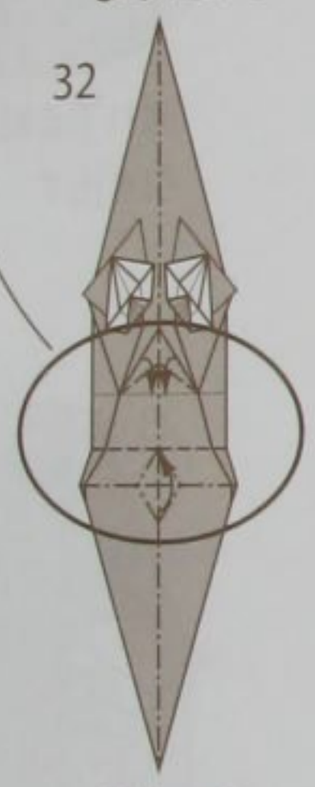


付いてる折りすじで折り
特に○の所は破れやすい
優しく折る

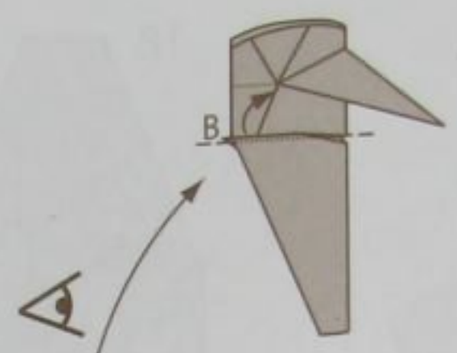



Aを押し込む
ように折る

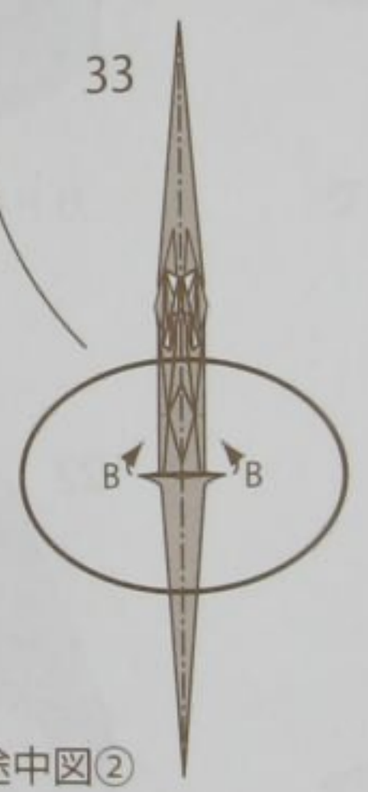
32



途中図①

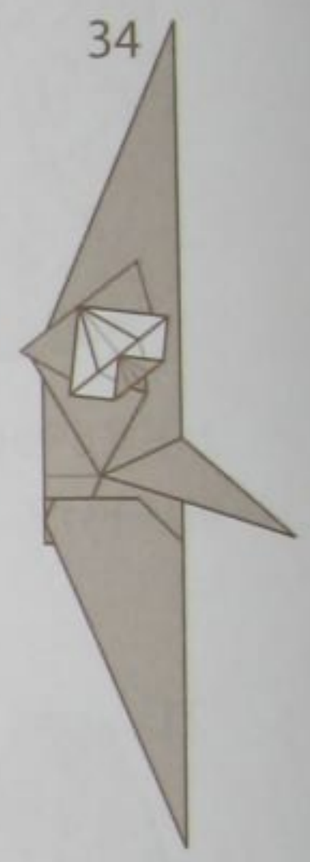



33

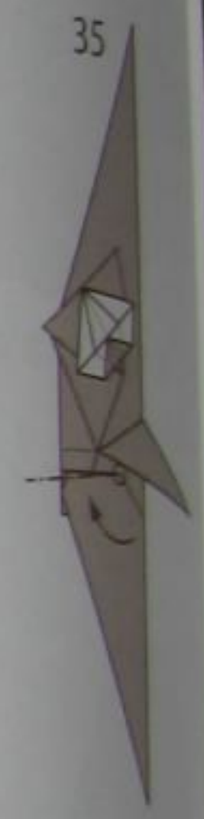



途中図②
途中図①で出来たカドBを
折り上げる

34

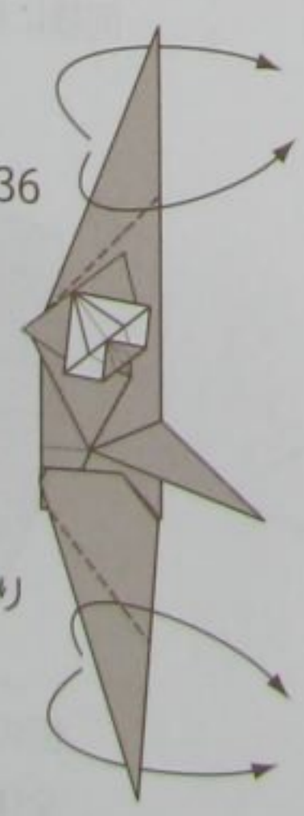


35



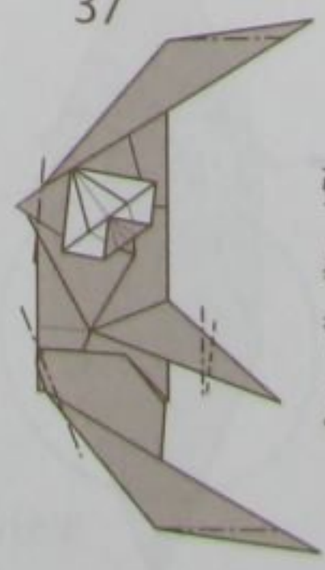
○を中心にずらすよう
して"口"を少し開

36



カドを
かぶせ折り

37

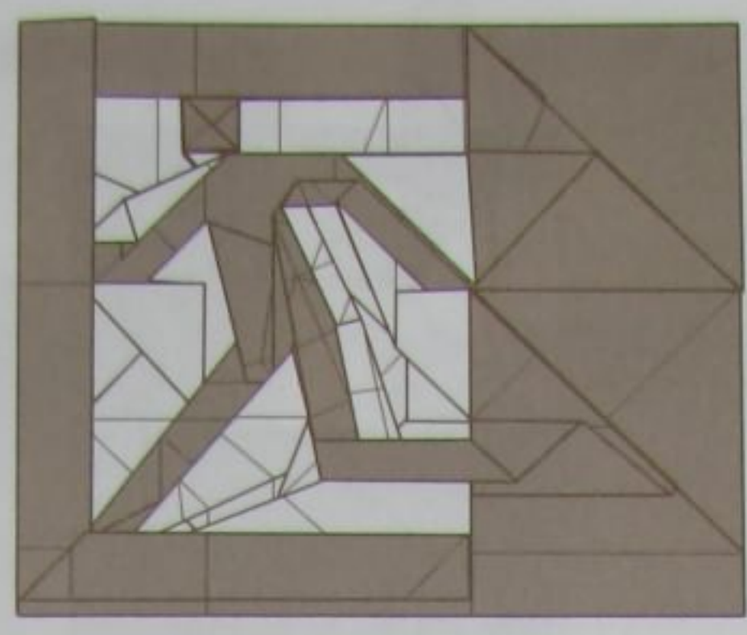


弧を中割り折り
鼻を段折り
背中を山折り。
反対側も同様

38

完成

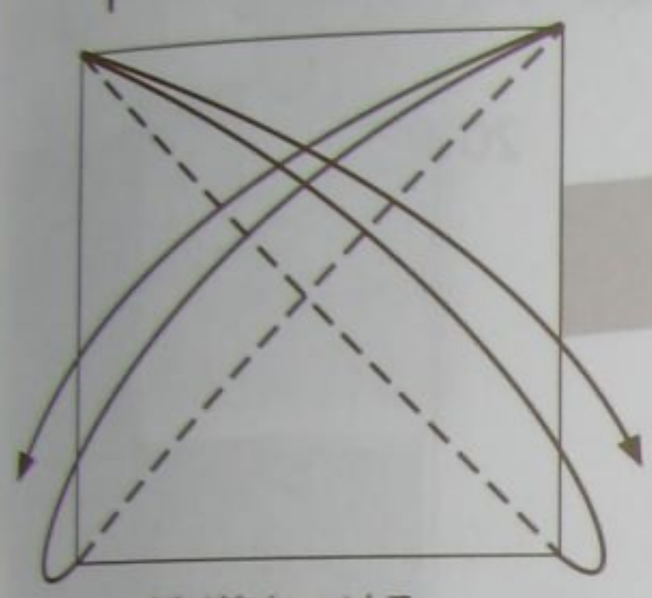
# 非常口



森末　圭
Kei Morisue

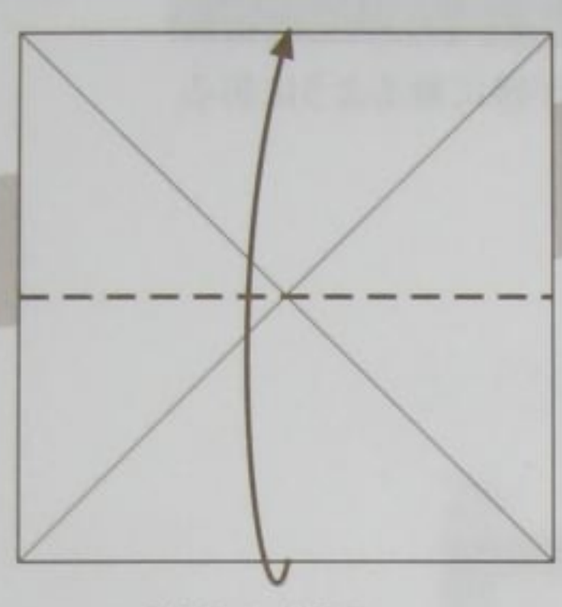
作：2011/04/05
図：2011/06/xx

1



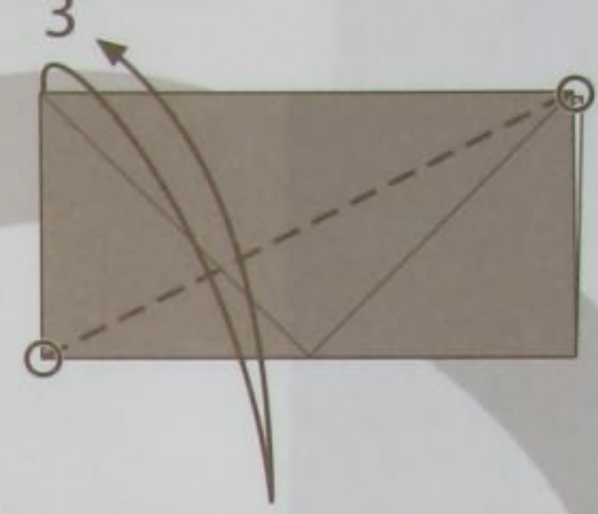
折り筋をつける

2



半分に折る

3

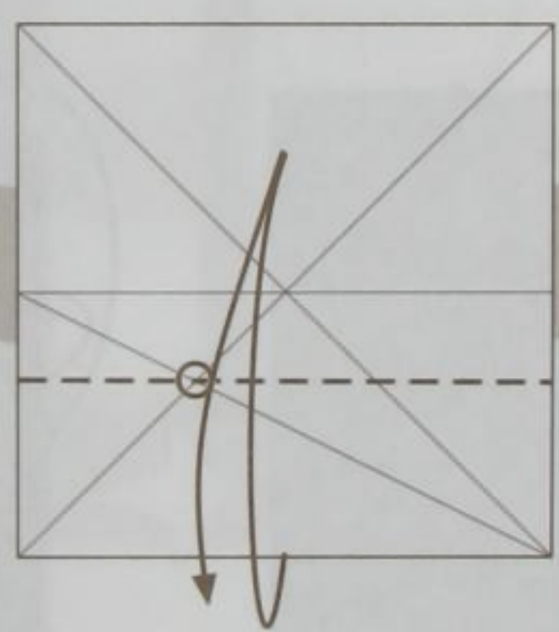


折り筋をつける

4

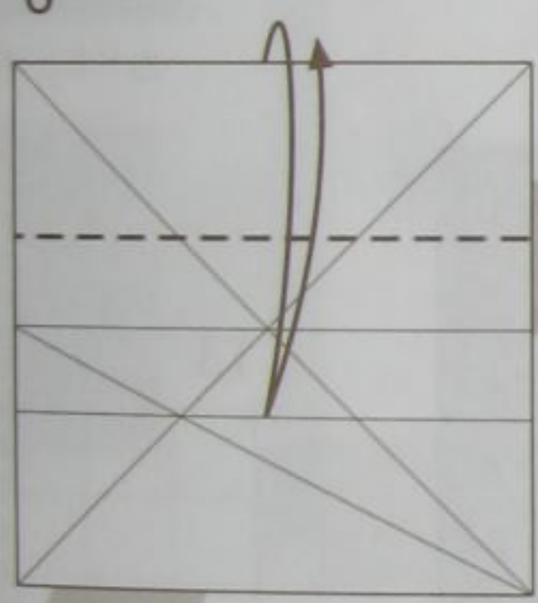
1の状態まで広げる

5



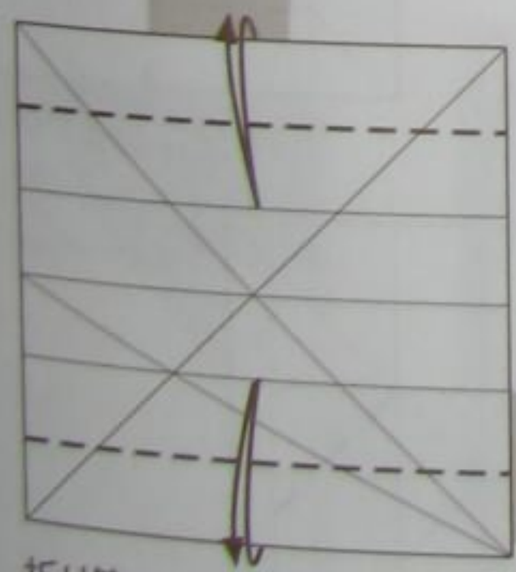
交点を通る折り筋をつける

6



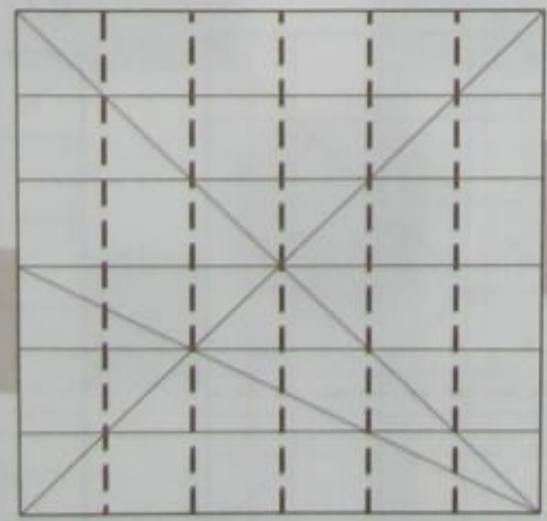
折り筋に合わせて折り筋をつける

7



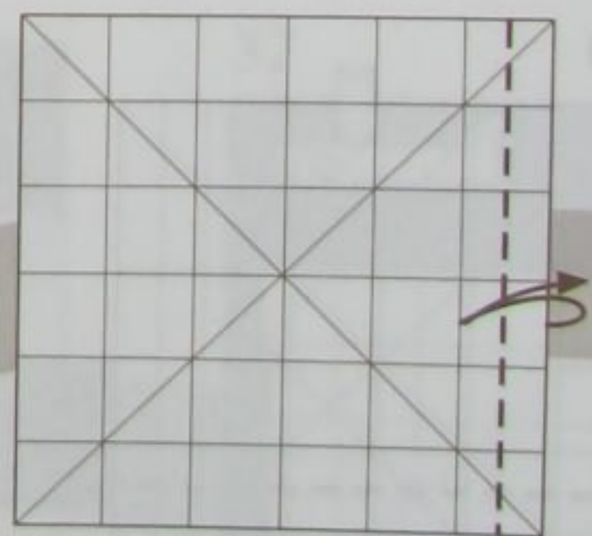
折り筋に合わせて折り筋をつける

8



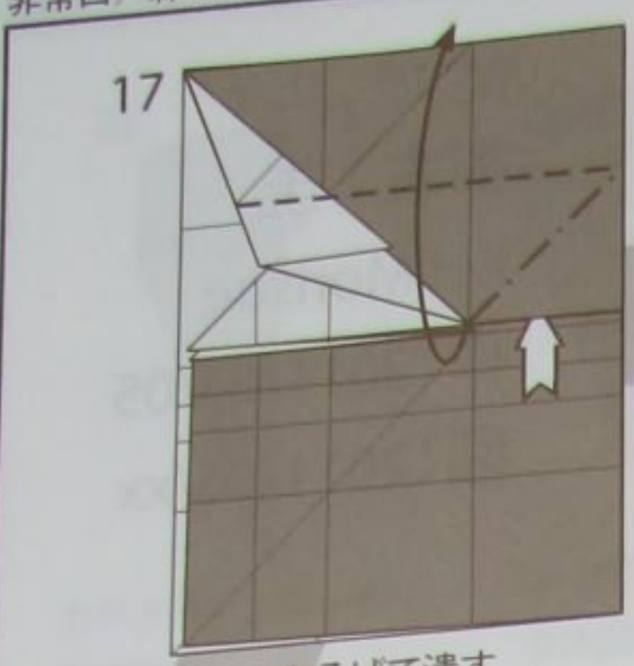
交点を通る折り筋をつける

9

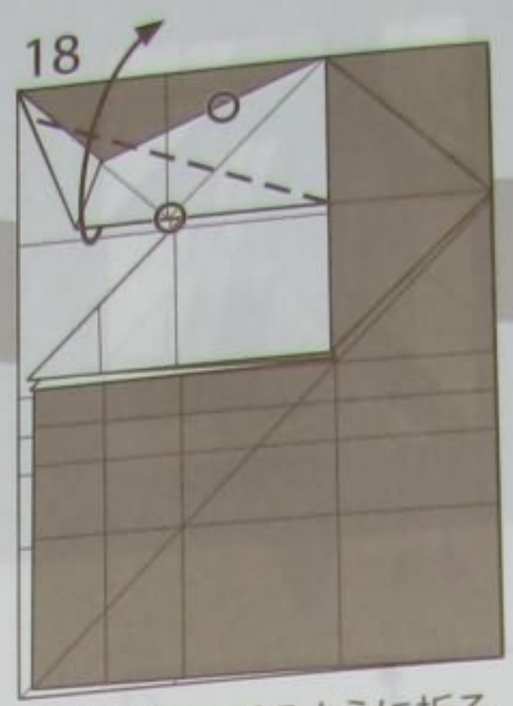


半分に折り筋をつける

非常口／森末　圭（東京都）



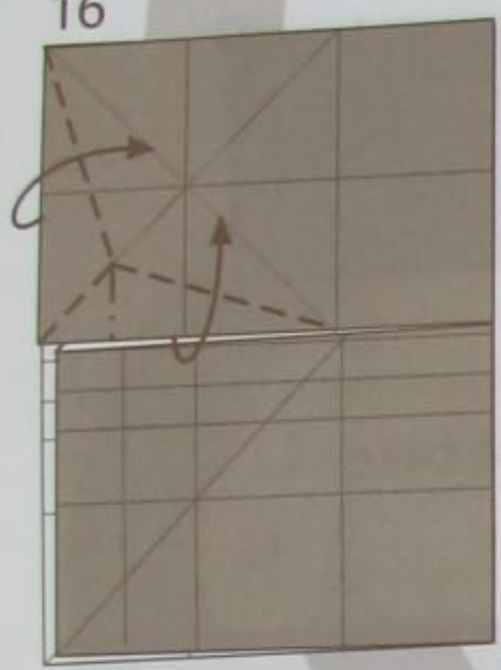
ひろげて潰す



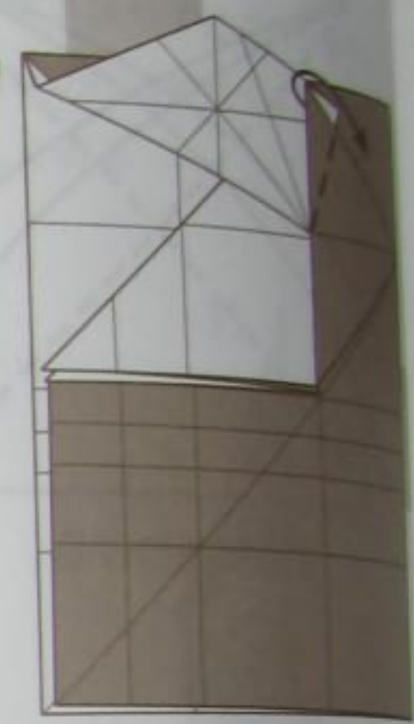
交点が縁に乗るように折る



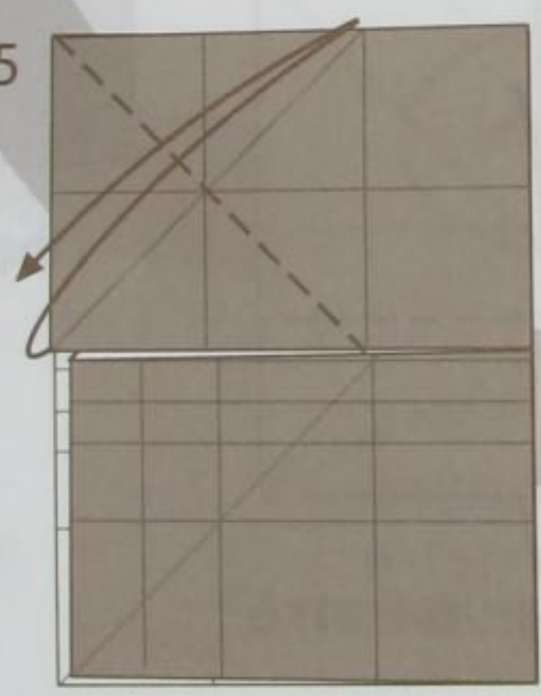
紙を一杯まで引き寄せる



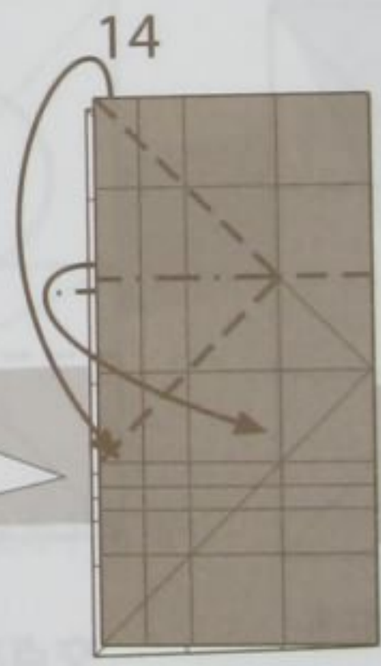
半分につまみ折り



カドを一杯のところで折る

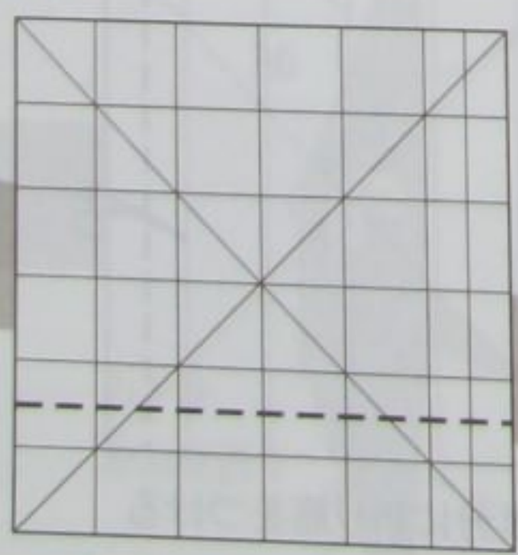


半分に折り筋をつける

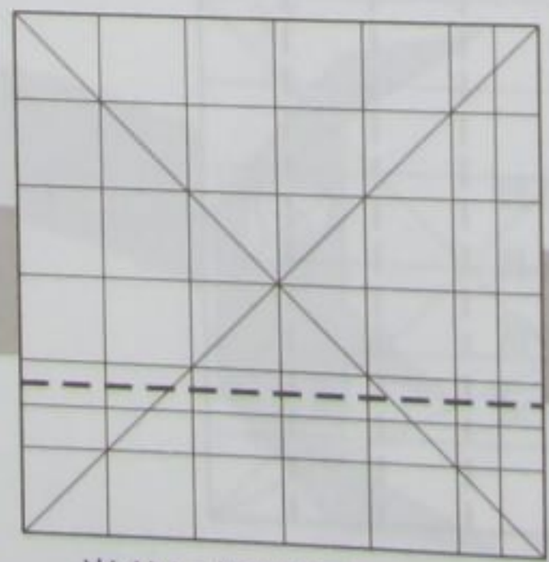


上の一枚を折り
筋に合わせて
畳む

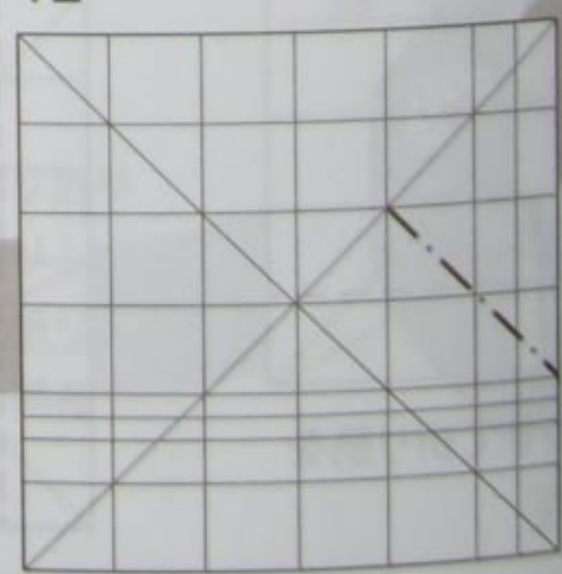
半分に折る



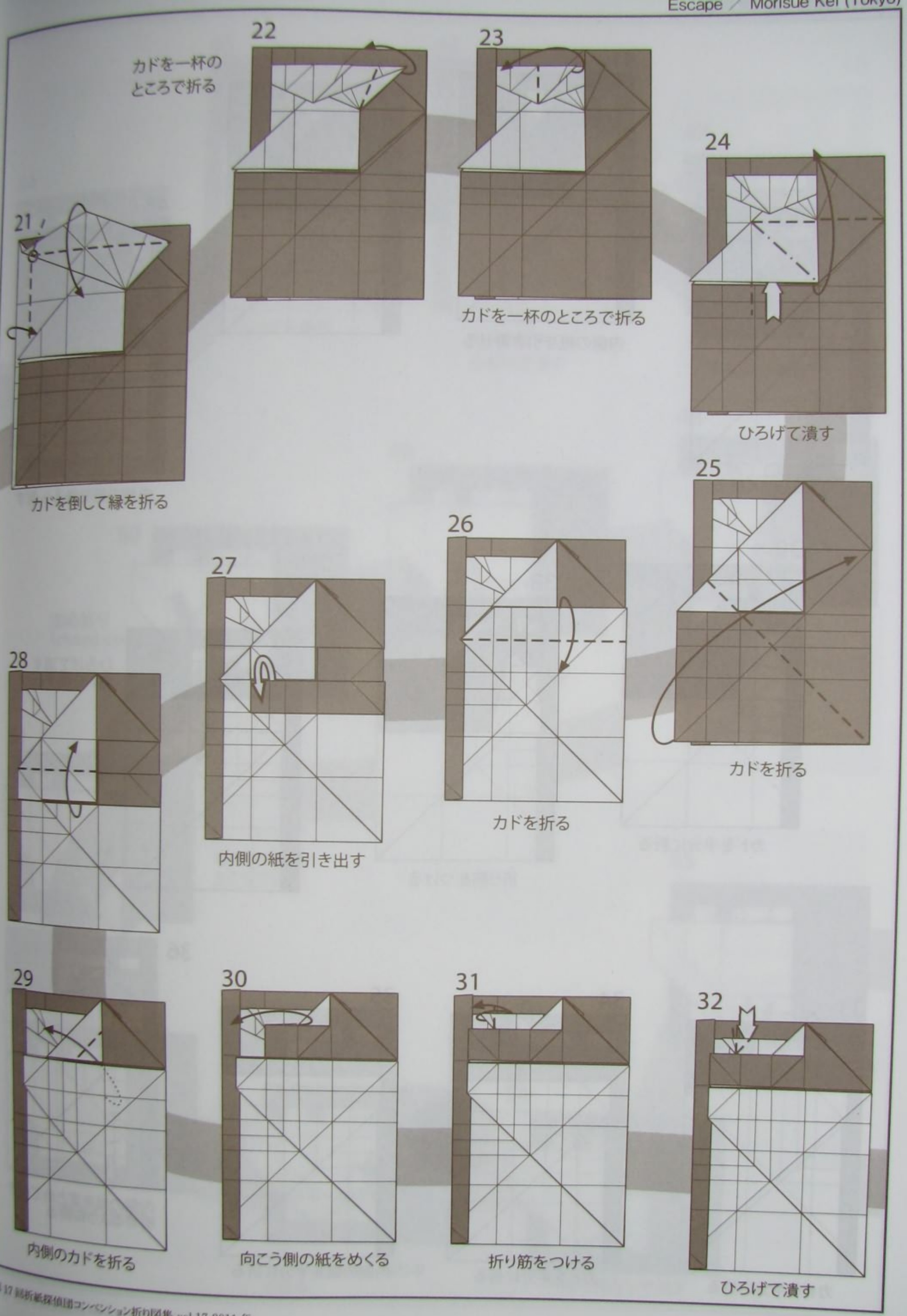
半分に折り筋をつける



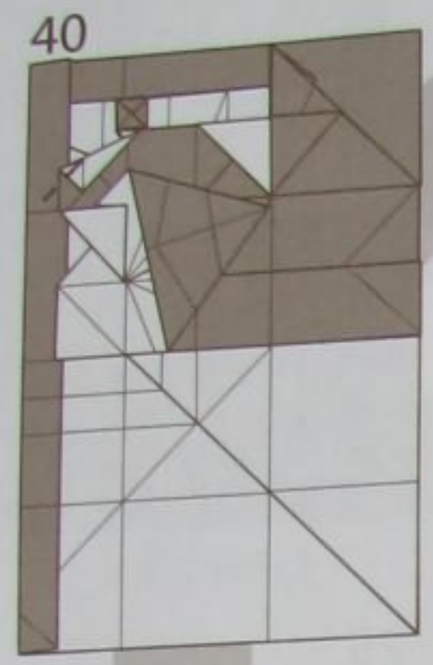
半分に折り筋をつける



折り筋をつける

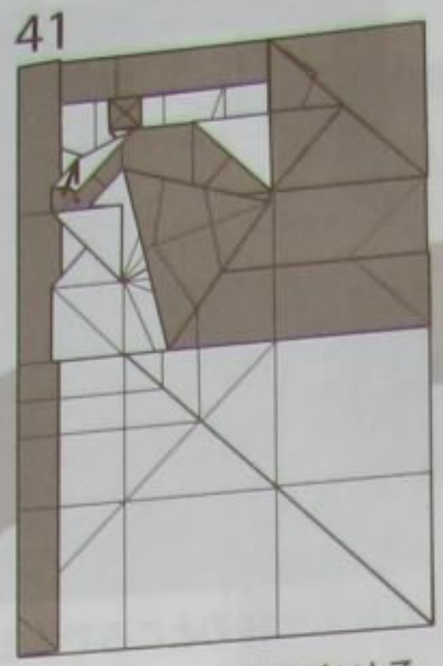

21
カドを倒して縁を折る
22
カドを一杯のところで折る
23
カドを一杯のところで折る
24
ひろげて潰す
25
カドを折る
26
カドを折る
27
内側の紙を引き出す
28
29
内側のカドを折る
30
向こう側の紙をめくる
31
折り筋をつける
32
ひろげて潰す

非常口／森末　圭（東京都）



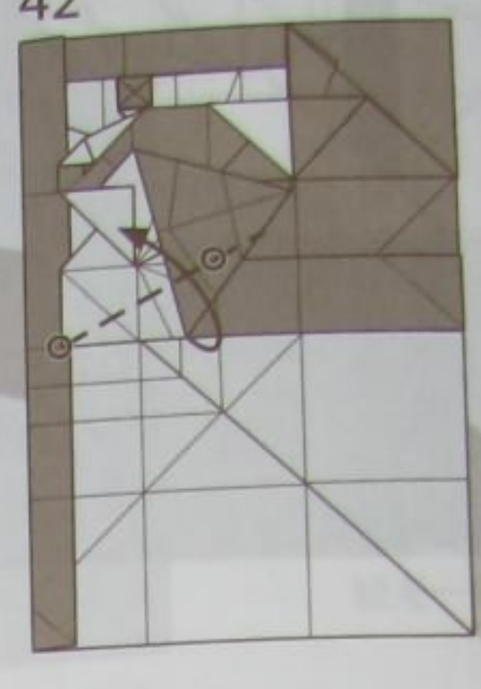
カドを小さく折る

41



内側の紙を引き寄せる

42



43

内側の紙を後ろへ倒す

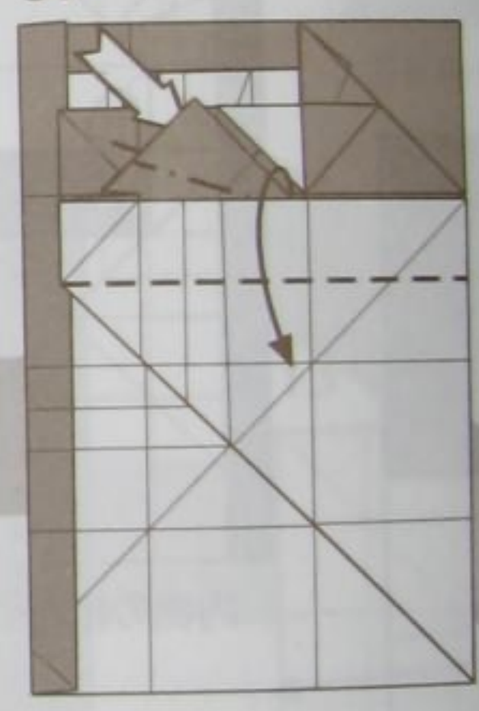
39

カドを半分に折る

38

折り筋をつける

37

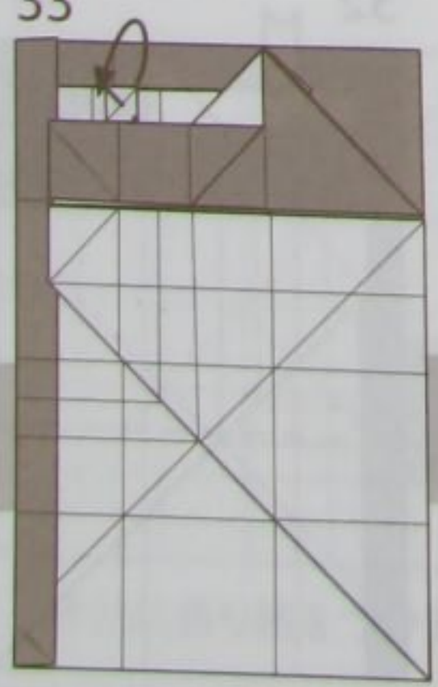


ひろげて潰す
カドを倒す

36

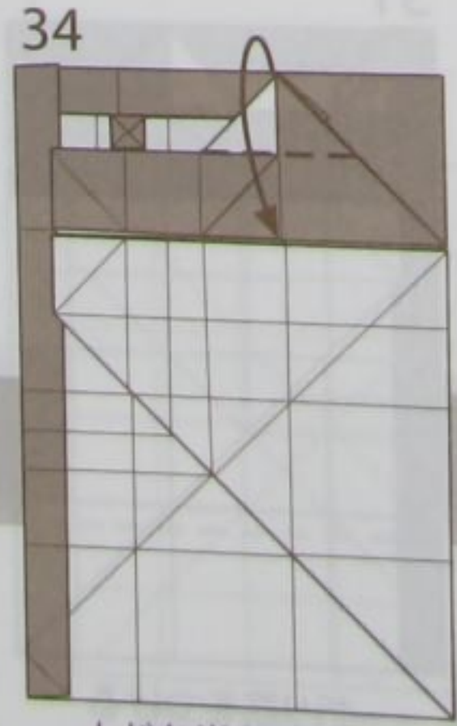
内側の紙をまとめて引き
寄せるように折る

33



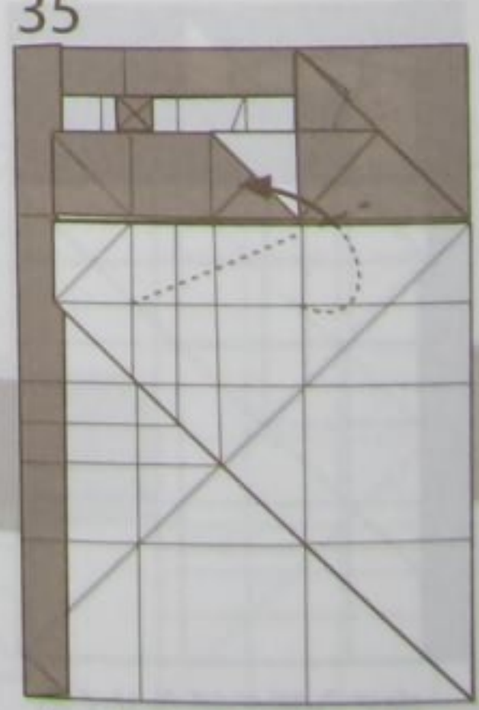
カドを半分に折る

34



カドを半分に折る

35

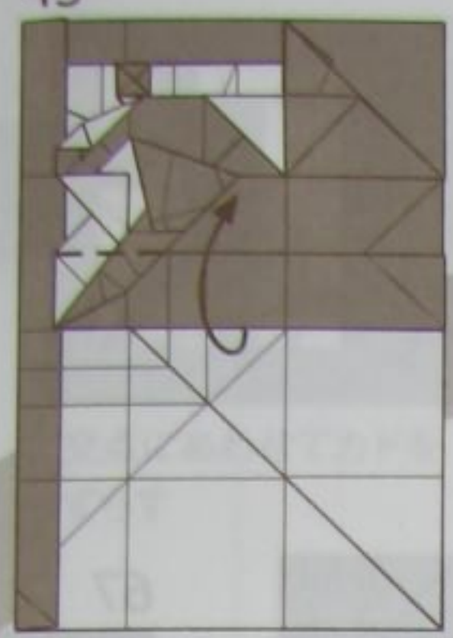


内側の紙を半分に折る

44

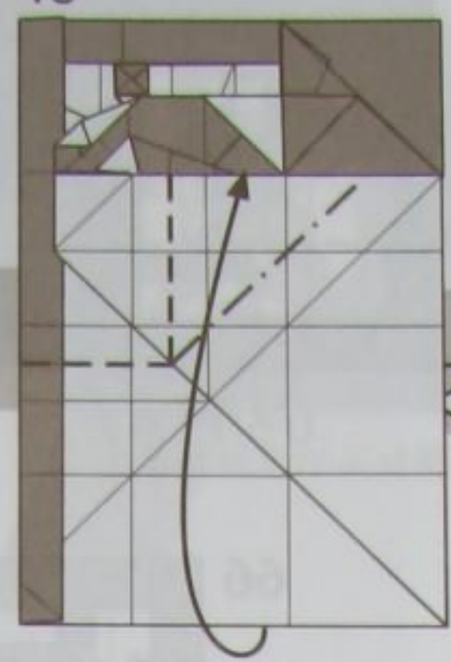
縁を後ろへ折りこむ

45



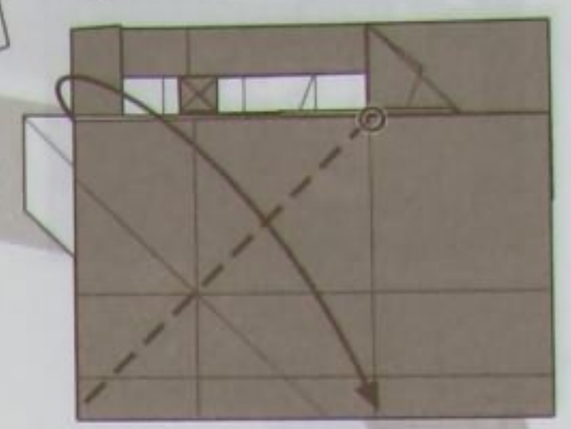
カドを倒す

46



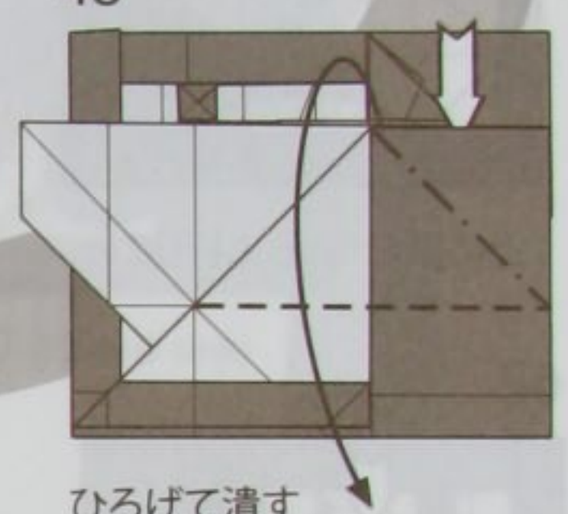
カドを倒す
ひろげて潰す

47



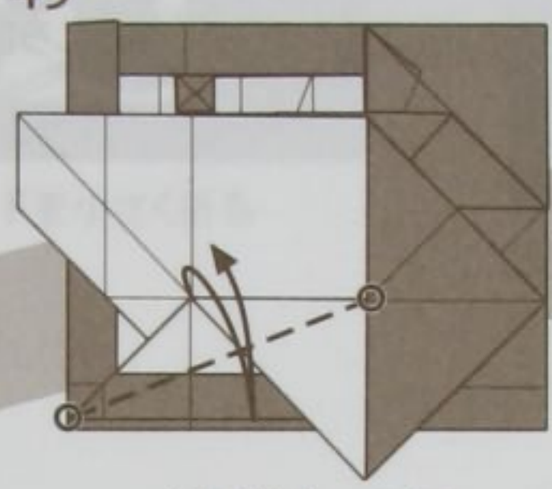
カドを折る
（下の縁にはあわない）

48



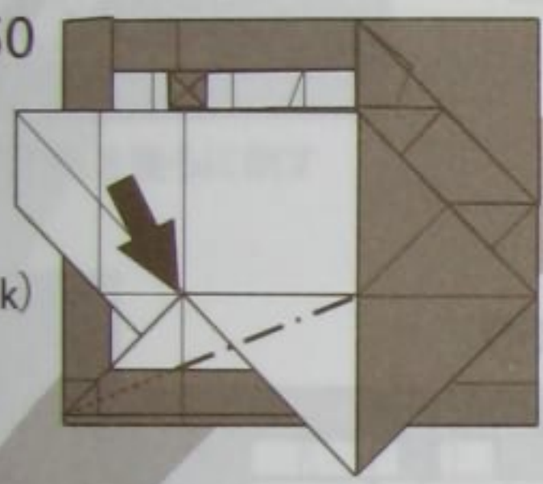
ひろげて潰す

49



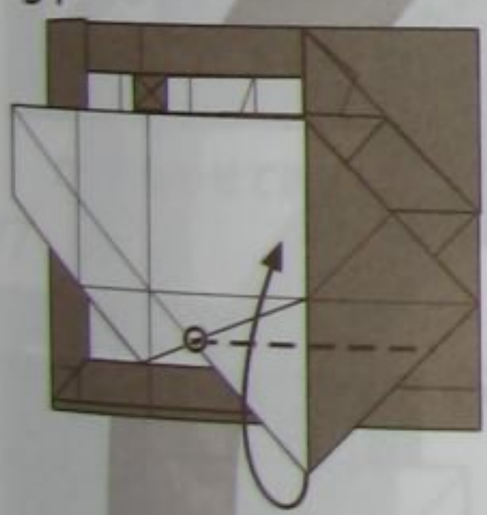
折り筋をつける

50



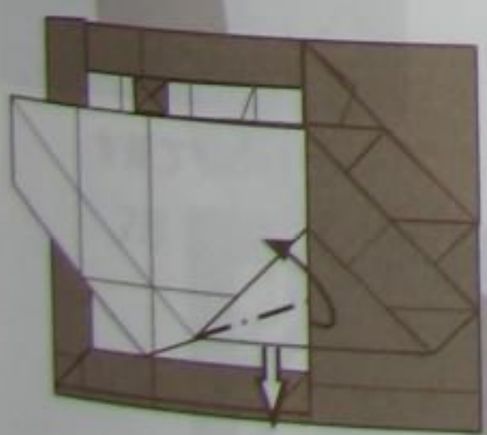
沈め折り
（closed-sink）

51



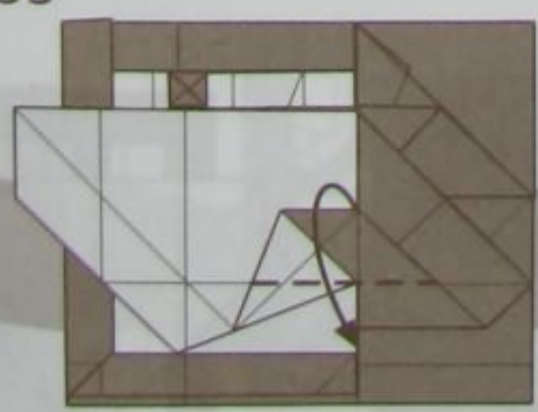
カドを一杯の
ところで折る

52



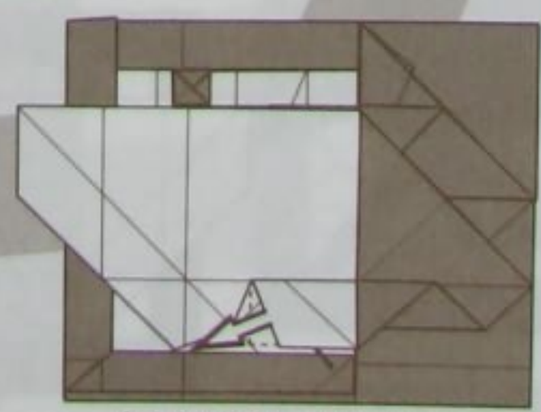
紙を引き出す

53



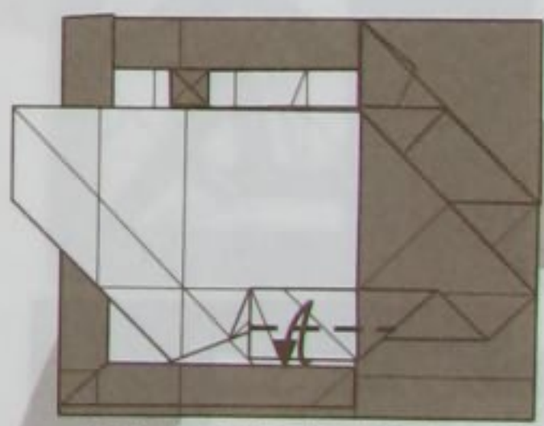
うしろの折り線にあわせ
て折る

54



内側の紙を引き出す

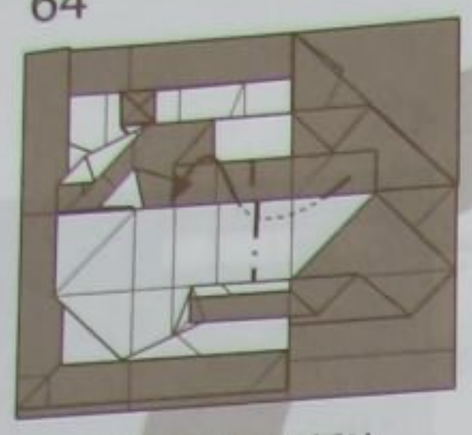
55



一杯のところで折り筋をつける

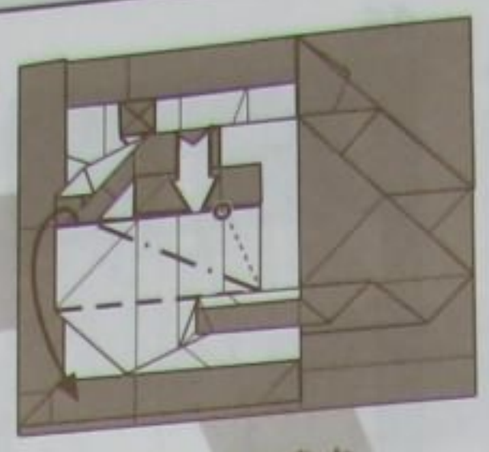
非常口／森末　圭（東京都）

64



折り筋で中割り折り

65

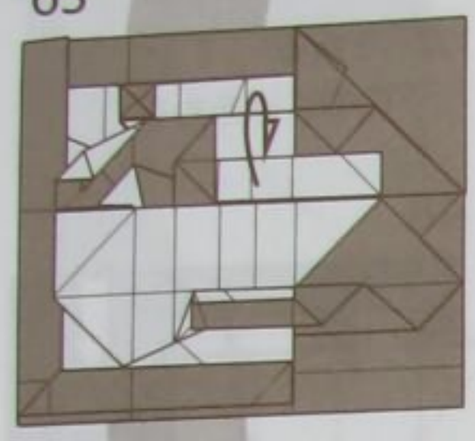


ひろげて潰す

68

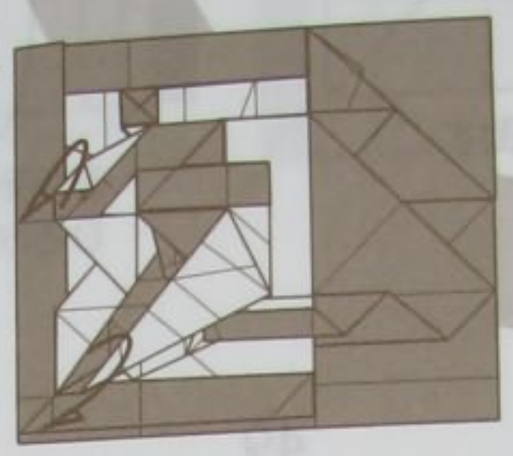
ひろげて潰す

63



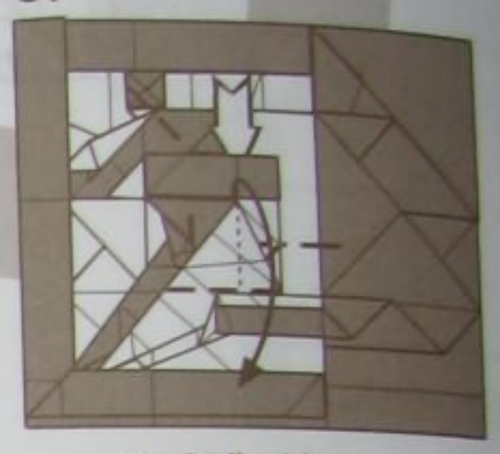
上の紙をうしろに折りこむ

66



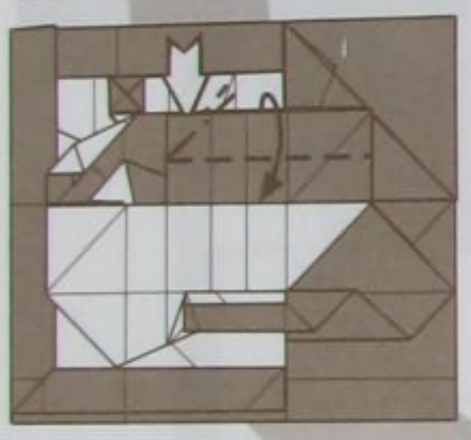
カドをうしろに隠す

67



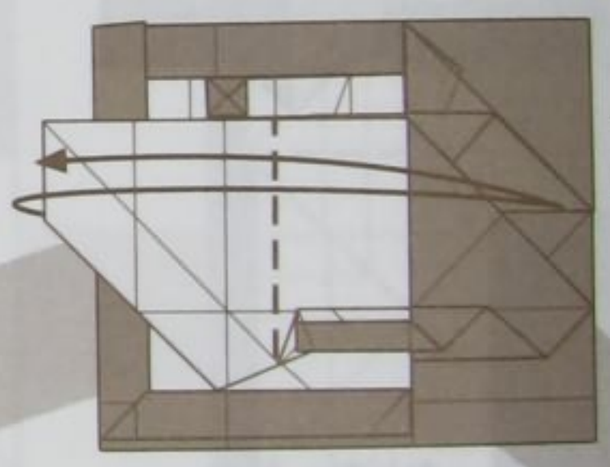
ひろげて潰す

62



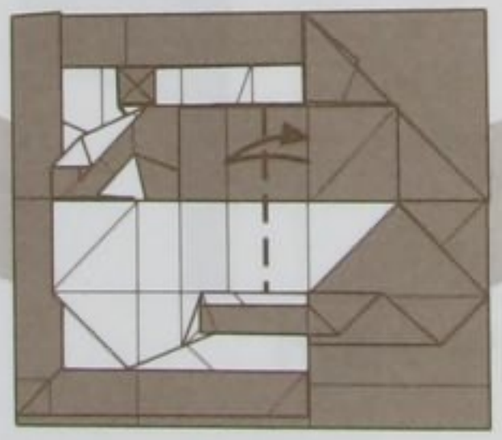
ひろげて潰す

60



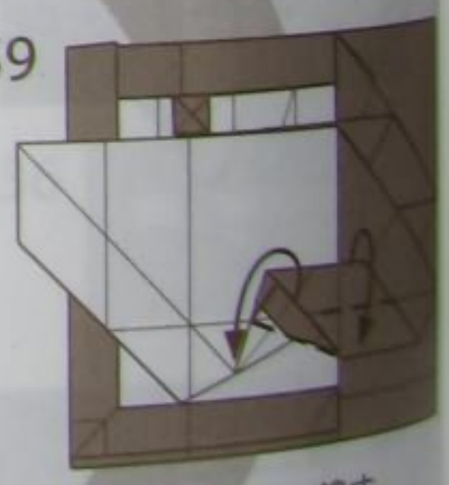
一杯のところで
折り筋をつける

61



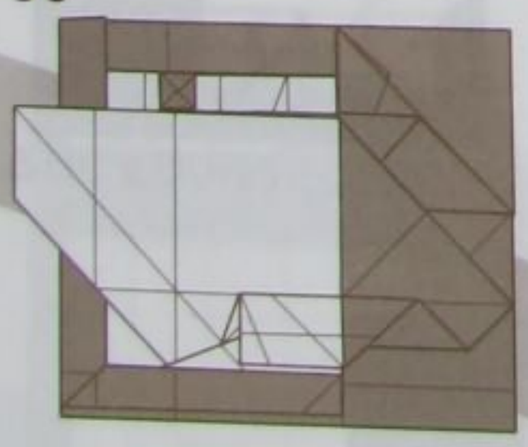
半分に折り筋をつける

59



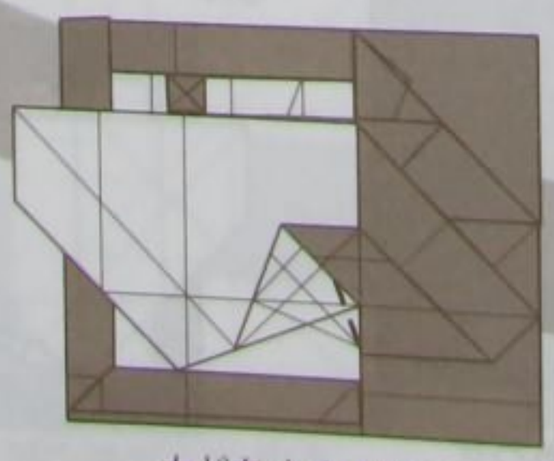
ひろげて潰す

56



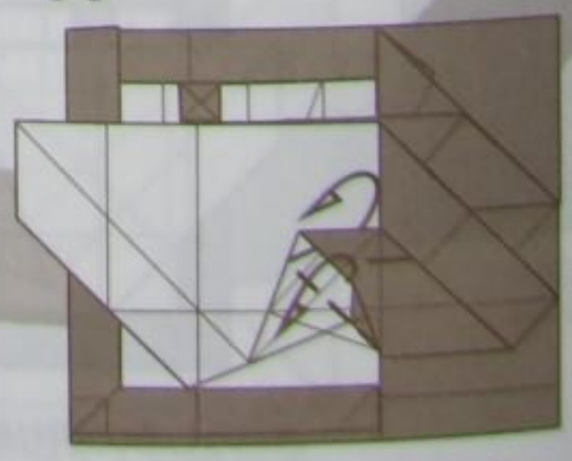
53 の状態まで紙をひろげる

57



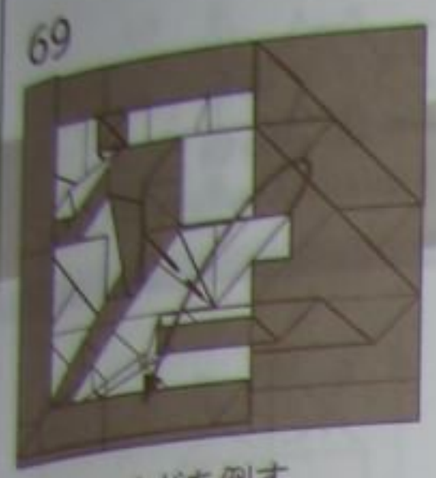
カドを小さく折る

58



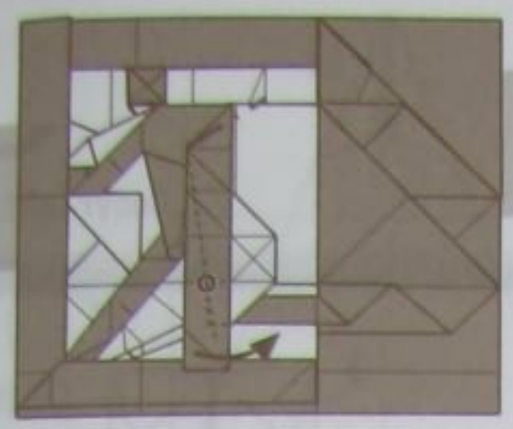
折り筋で後ろに折り込む

69



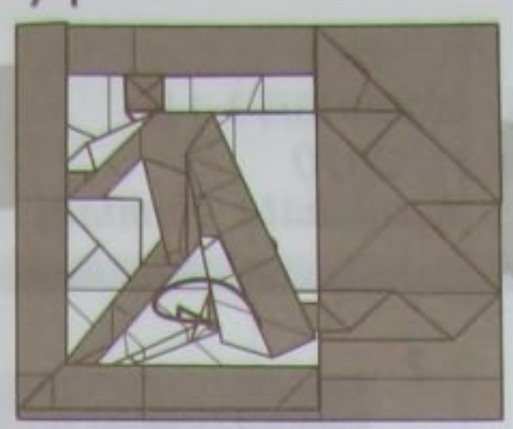
カドを倒す

70



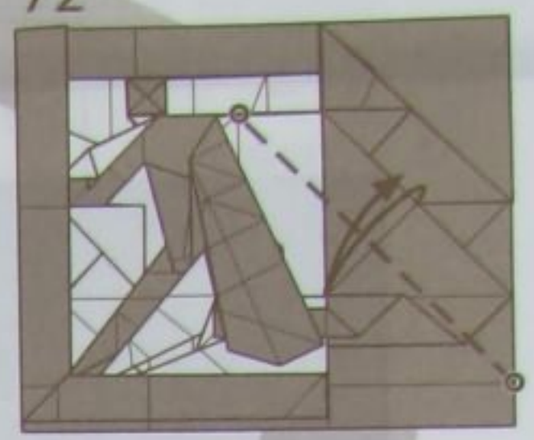
交点にあわせてカドをずらす

71



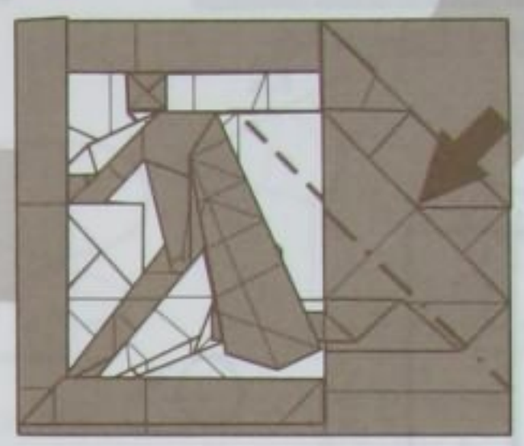
手前の紙をかぶせ折り

72



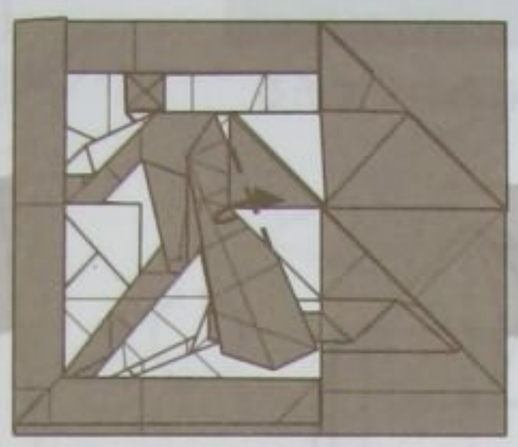
折り筋をつける

73



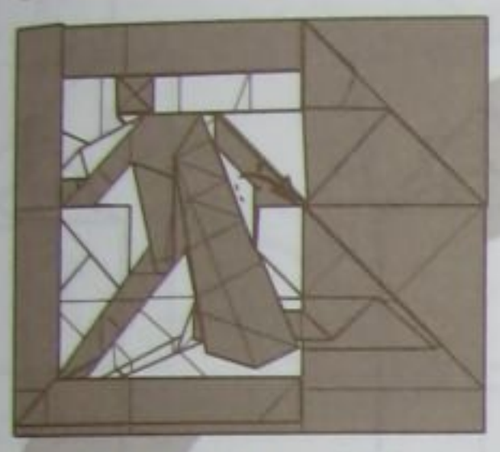
沈め折り (closed-sink)

74



カドを小さく折る

75



内側の紙を後ろに倒す

76

カドを合わせて折る

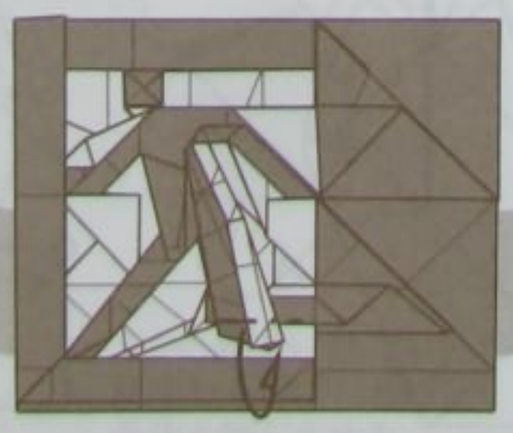
77

縁を細く折る

78

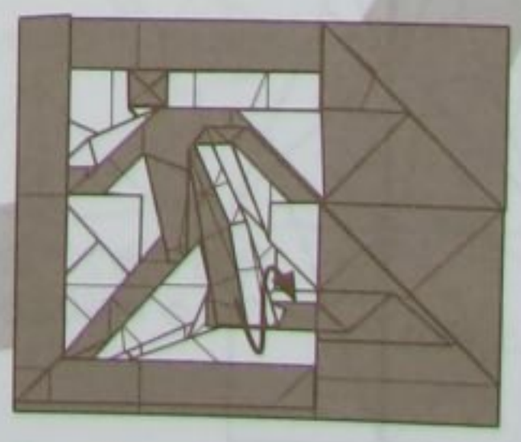
紙を下半分だけずらす

79



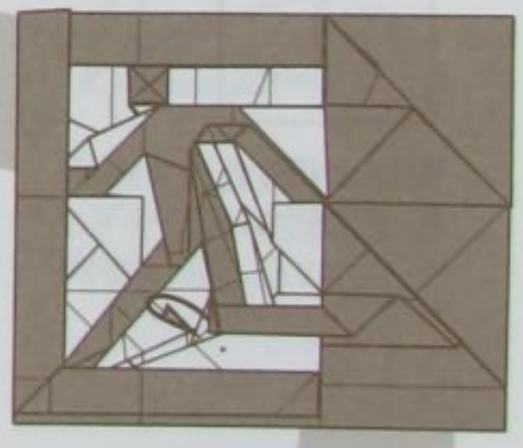
カドをうしろの縁に合わせて折る

80



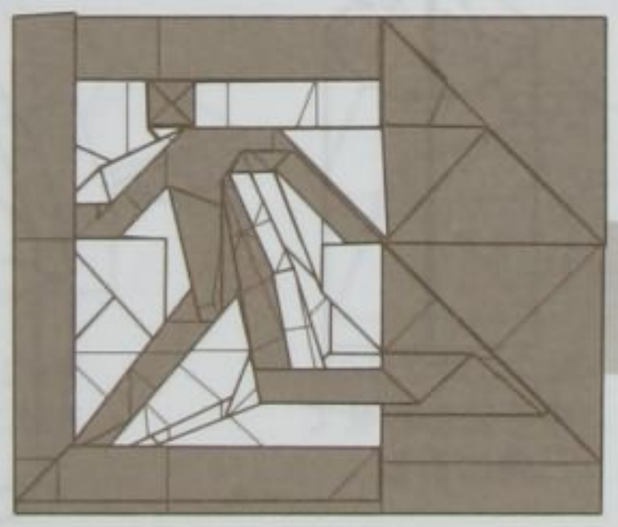
カドをすぐうしろに差し込む

81



カドを小さく折る

82

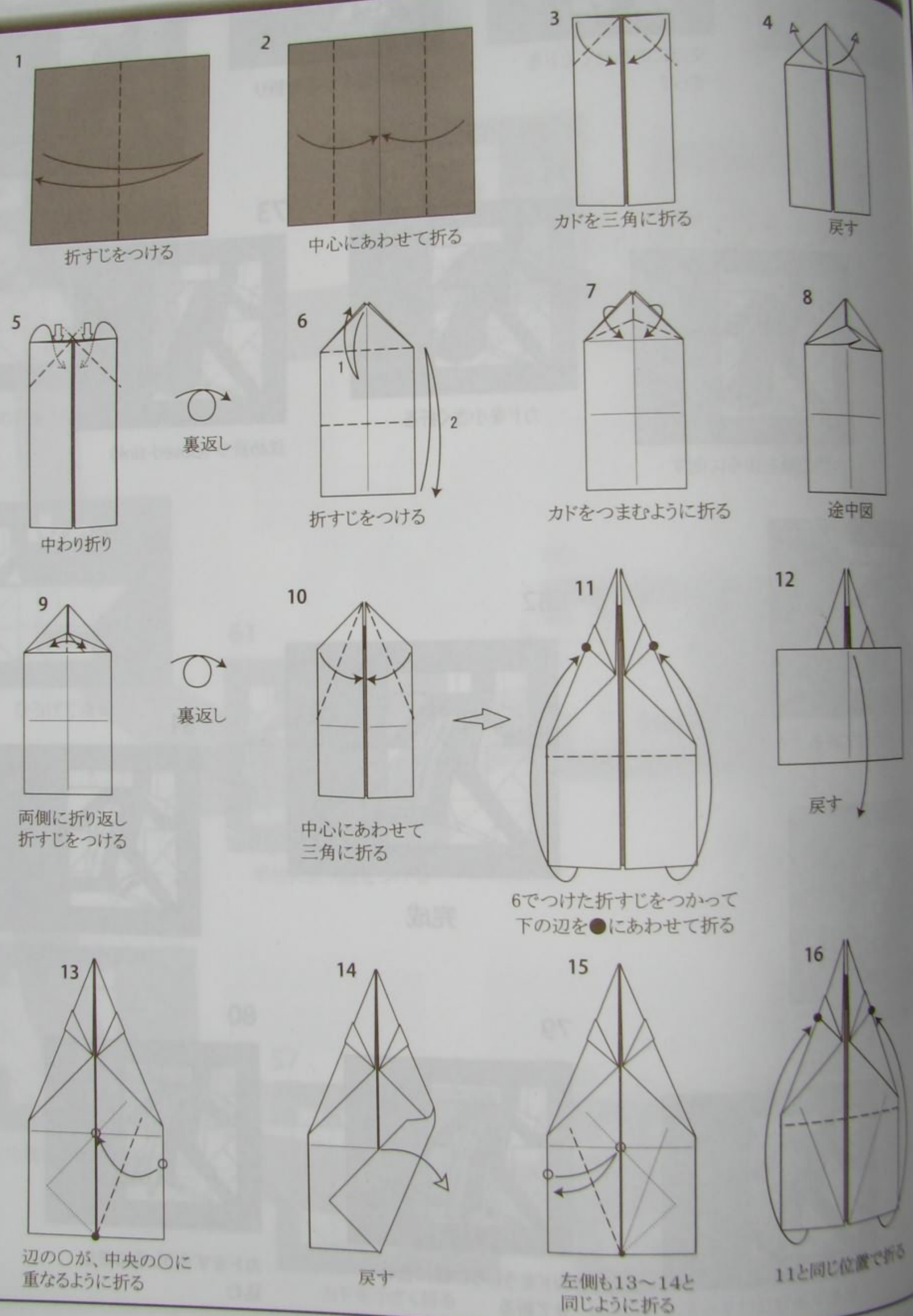


完成

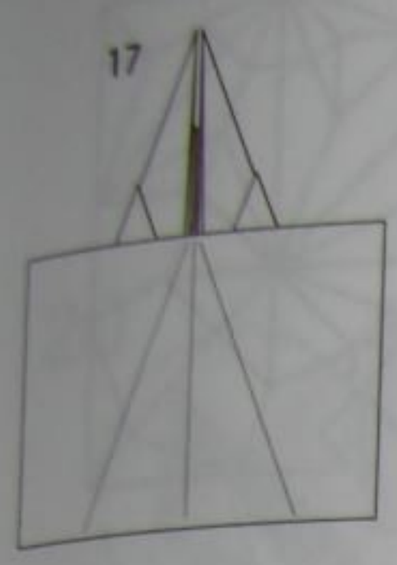
# ウサギ

川畑文昭　2010年10月３１日
*October 31, 2010*
*Kawahata Fumiaki*

Fu iaki a ahata
Copyright By Fumiaki Kawahata 2011

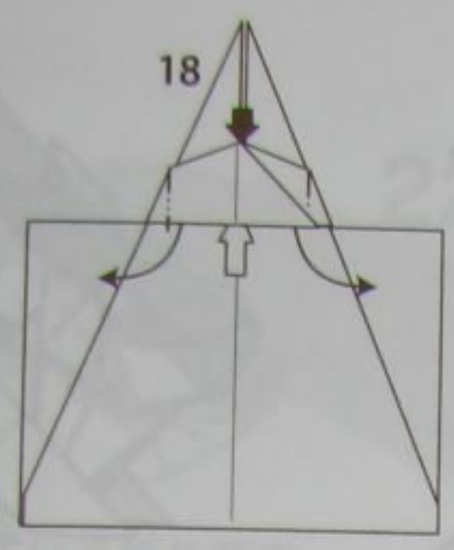


17



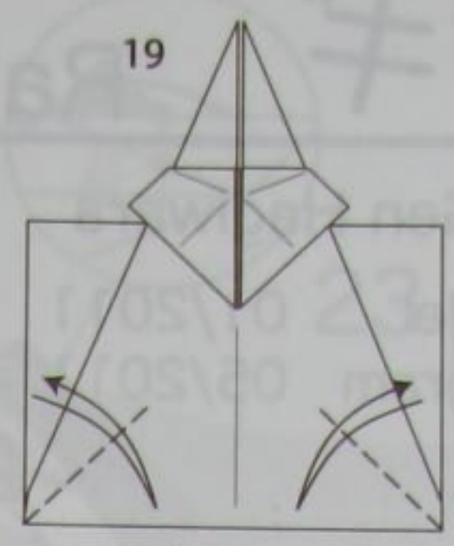
裏返し

18



広げて平らにつぶす

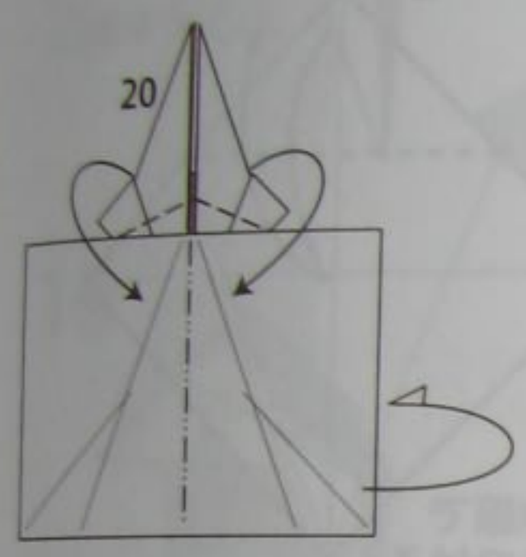
19



折すじをつける

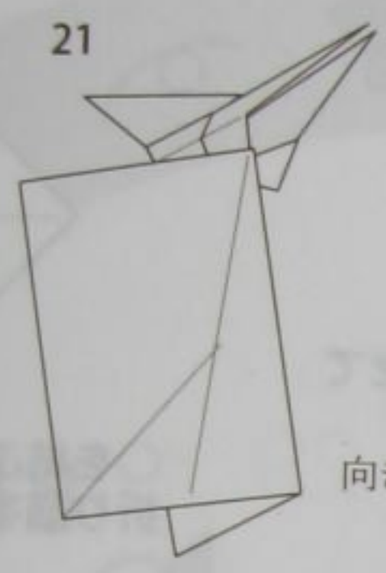
裏返し

20



首元を斜めに折りながら
全体を山に折る

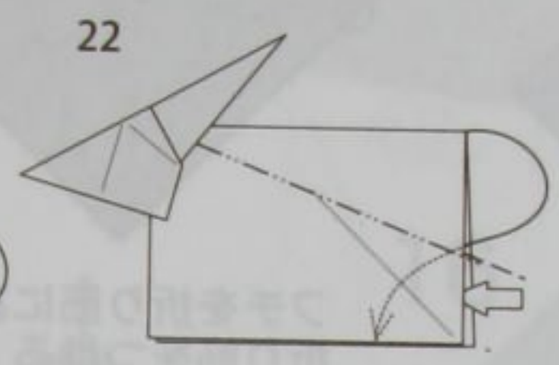
21



途中図

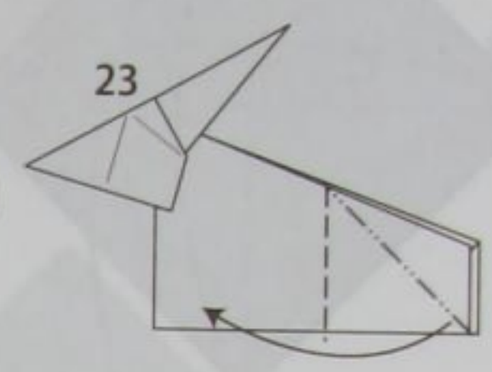
向きを変える

22



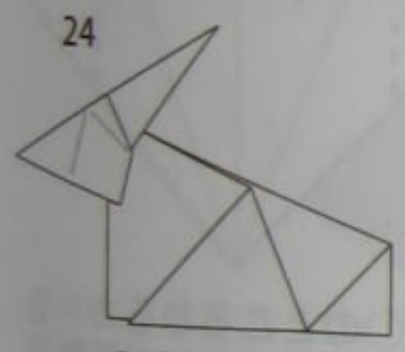
13～15でつけた
折りすじをつかって
中わり折り

23



19でつけた
折りすじをつかって
カドをつまむように折る

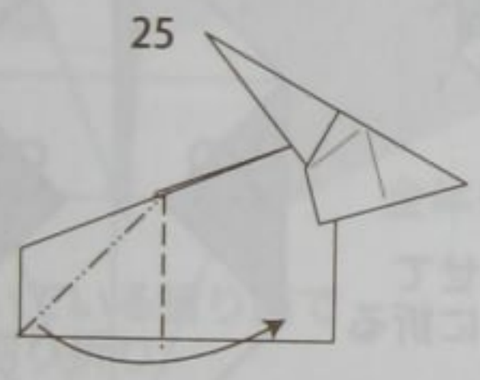
24



23まで折った形

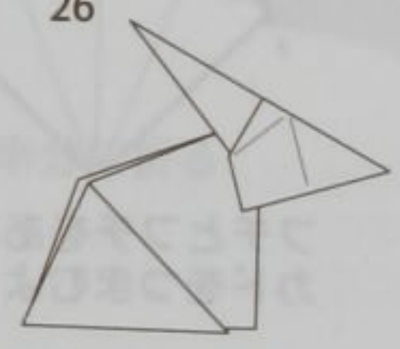
裏返し

25



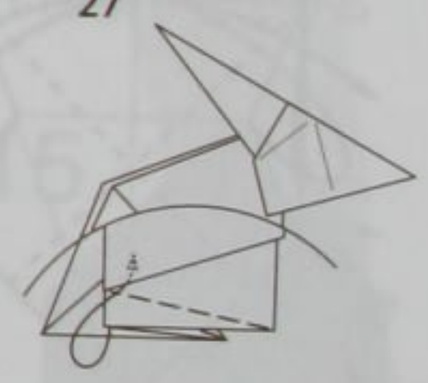
反対側も23と
同じように折る

26



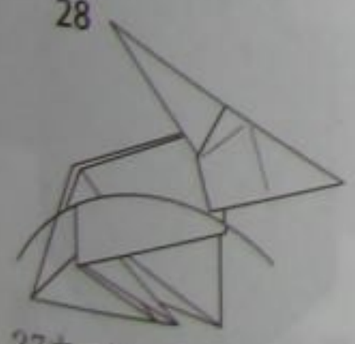
25まで折った形

27



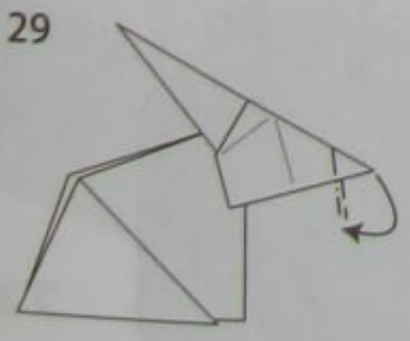
内側を見た図
ヒダを三角に折って
内側に差し込む

28



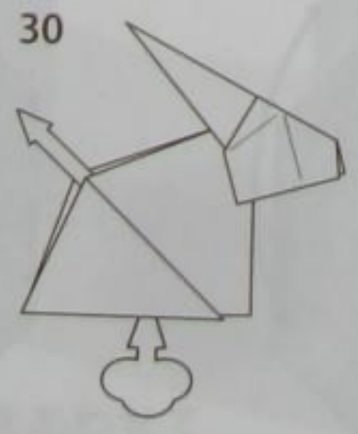
27まで折った形
反対側も同じように折る

29



顔の先を中わり折り

30



下から指をいれて
背中を平らにひろげ
全体を膨らませる

31

耳を広げて赤い色が
見えるようにする

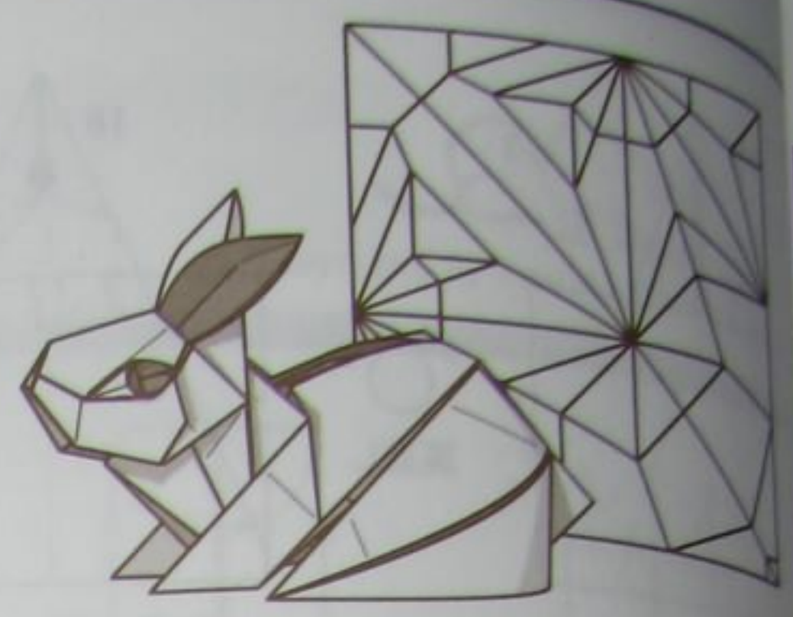
32

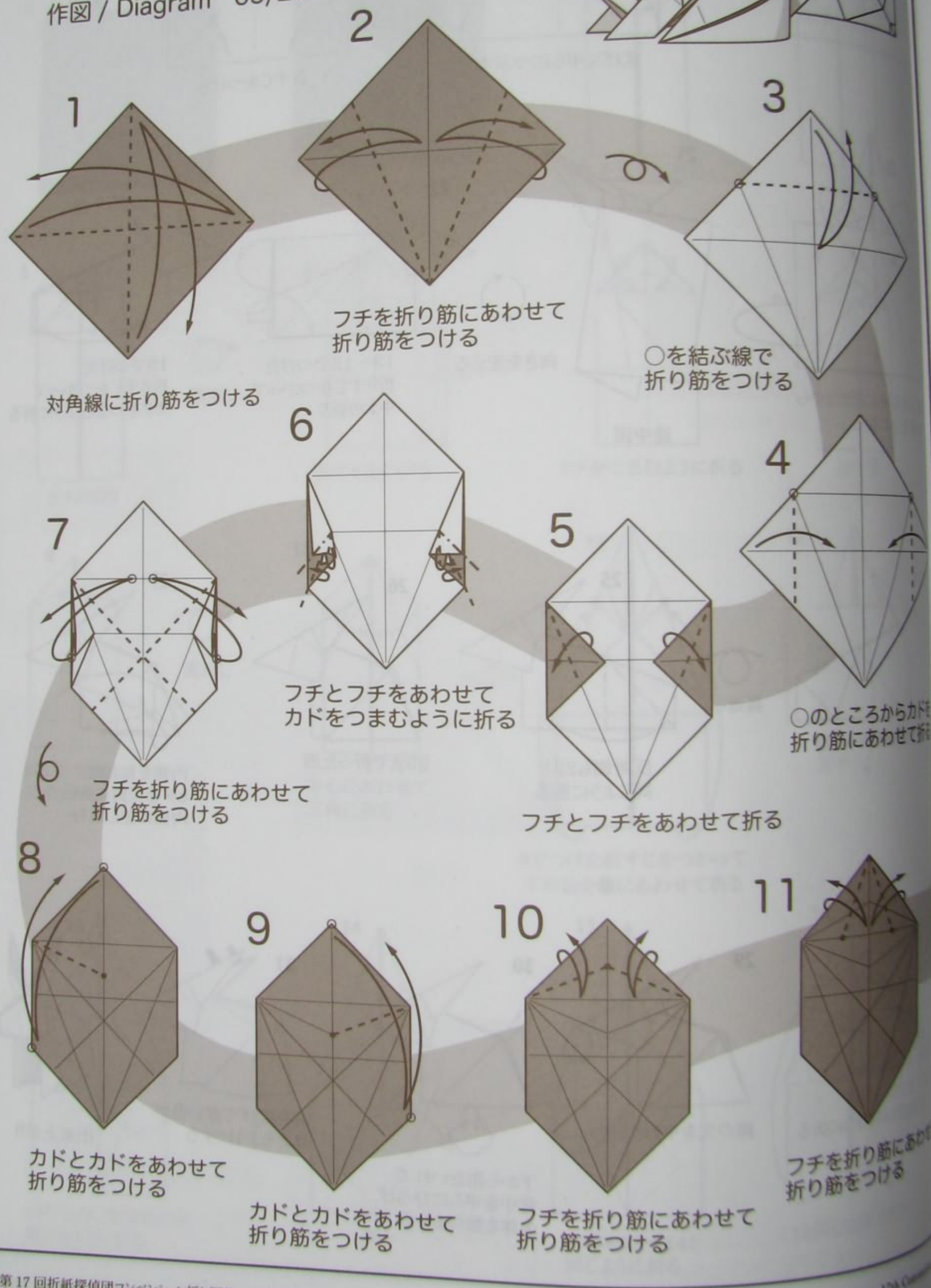
出来上がり

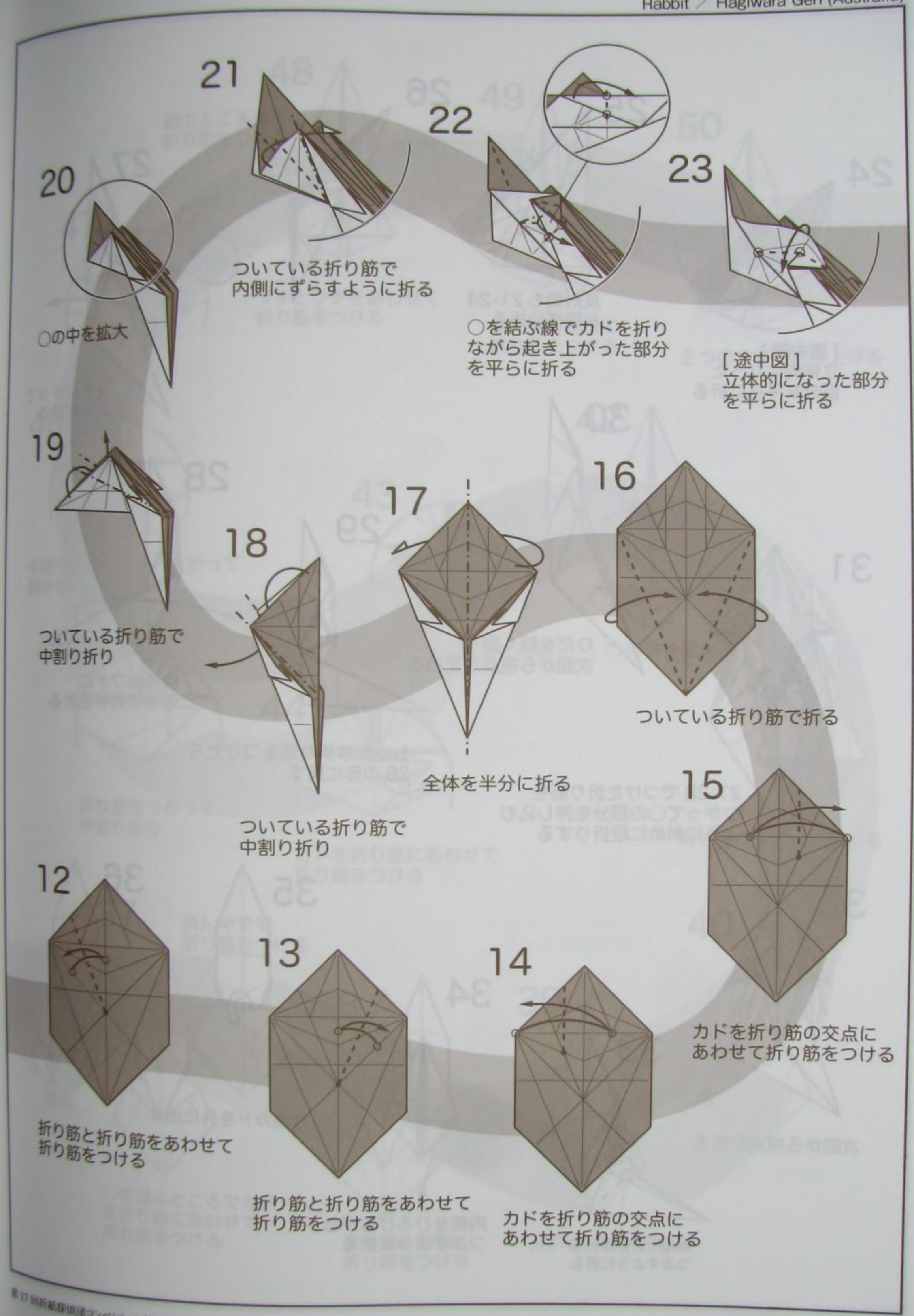
# ウサギ　Rabbit

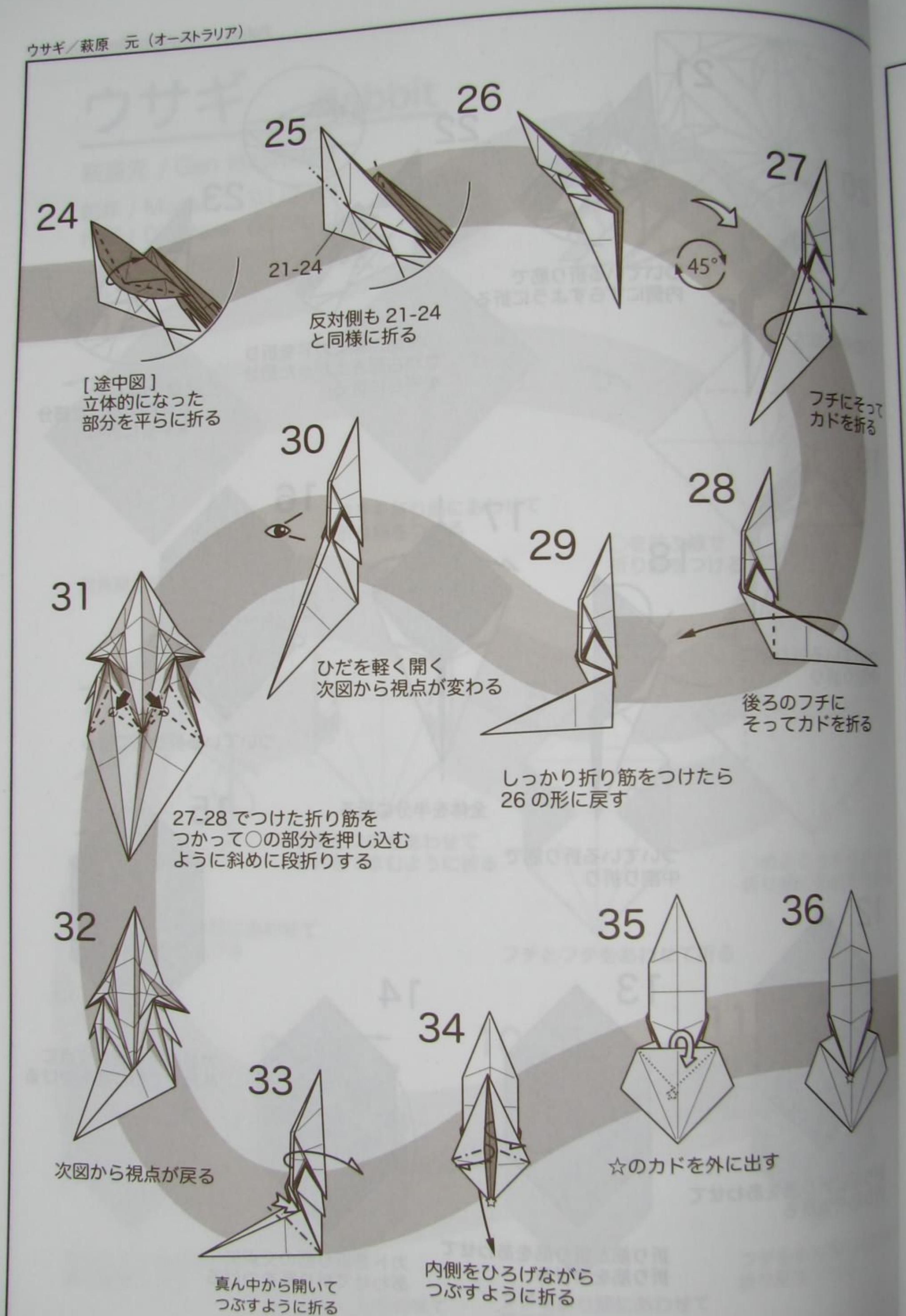
萩原元 / Gen Hagiwara

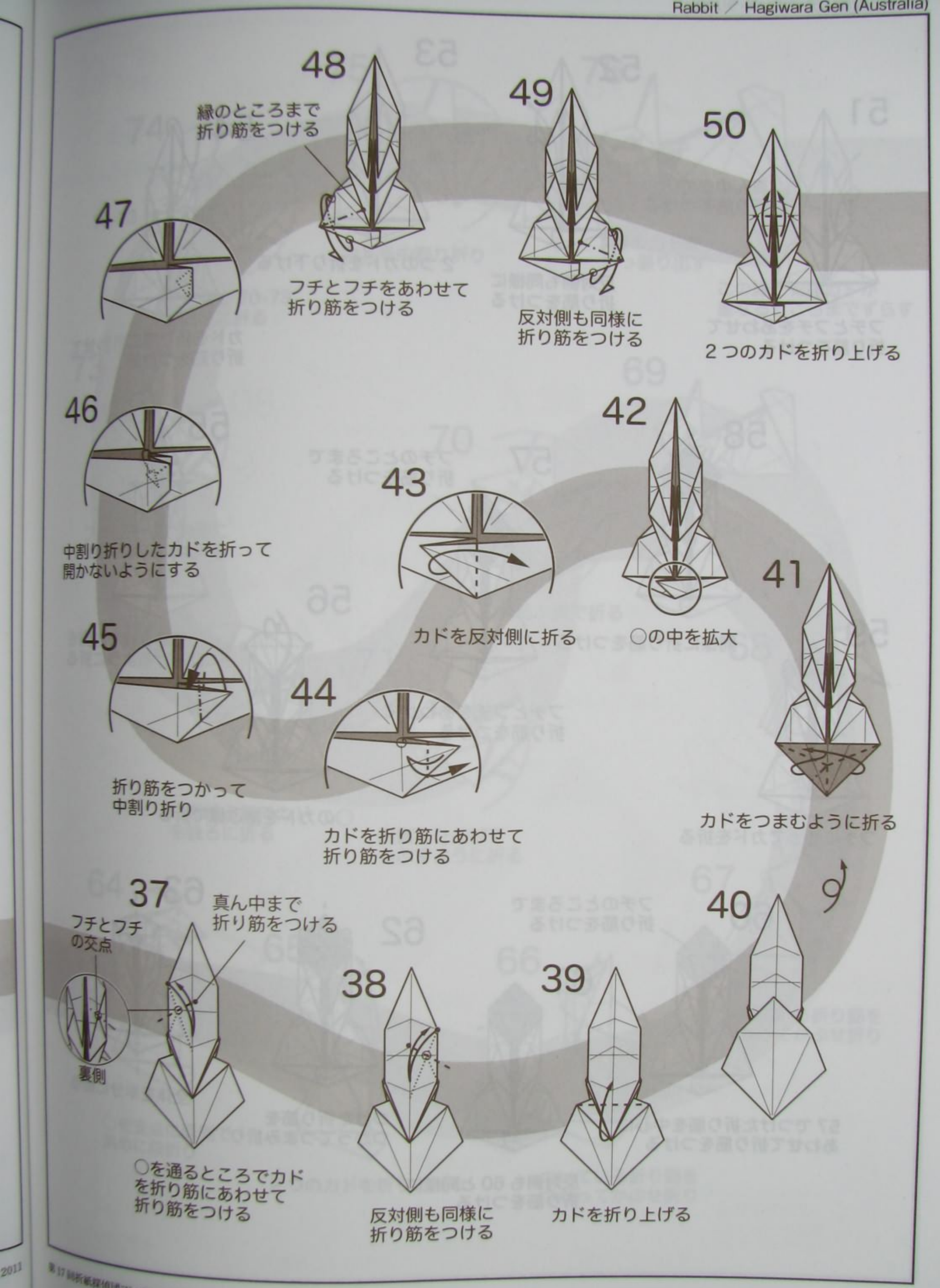
創作 / Model　01/2011
作図 / Diagram　05/2011



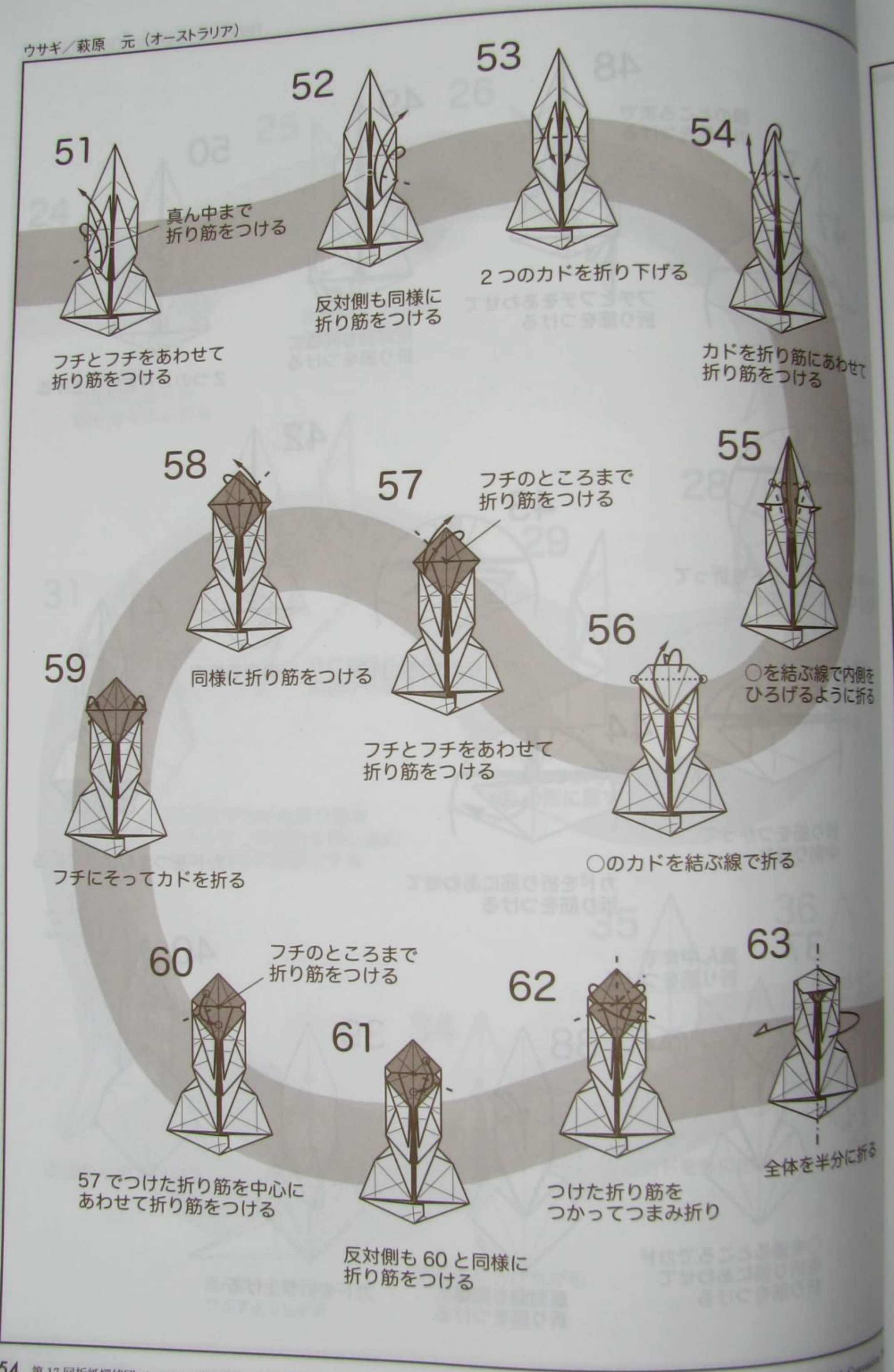



21
20
22
23
ついている折り筋で
内側にずらすように折る
○の中を拡大
○を結ぶ線でカドを折り
ながら起き上がった部分
を平らに折る
[途中図]
立体的になった部分
を平らに折る
19
18
17
16
ついている折り筋で
中割り折り
ついている折り筋で
中割り折り
全体を半分に折る
ついている折り筋で折る
15
12
13
14
カドを折り筋の交点に
あわせて折り筋をつける
折り筋と折り筋をあわせて
折り筋をつける
折り筋と折り筋をあわせて
折り筋をつける
カドを折り筋の交点に
あわせて折り筋をつける


24
25
26
27
21-24
45°
反対側も 21-24
と同様に折る
[途中図]
立体的になった
部分を平らに折る
フチにそって
カドを折る
30
28
29
31
ひだを軽く開く
次図から視点が変わる
後ろのフチに
そってカドを折る
しっかり折り筋をつけたら
26 の形に戻す
27-28 でつけた折り筋を
つかって○の部分を押し込む
ように斜めに段折りする
32
35
36
34
33
次図から視点が戻る
☆のカドを外に出す
真ん中から開いて
つぶすように折る
内側をひろげながら
つぶすように折る

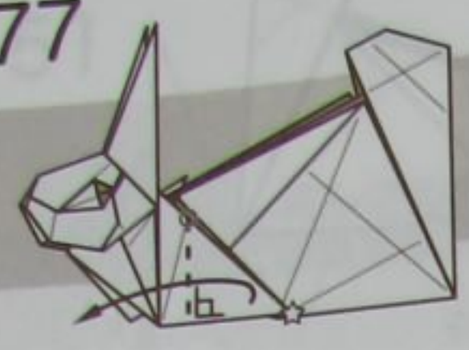

48
縁のところまで
折り筋をつける
49
50
47
フチとフチをあわせて
折り筋をつける
反対側も同様に
折り筋をつける
2つのカドを折り上げる
46
42
43
中割り折りしたカドを折って
開かないようにする
カドを反対側に折る
○の中を拡大
41
45
44
折り筋をつかって
中割り折り
カドを折り筋にあわせて
折り筋をつける
カドをつまむように折る
37
真ん中まで
折り筋をつける
フチとフチ
の交点
裏側
40
38
39
○を通るところでカド
を折り筋にあわせて
折り筋をつける
反対側も同様に
折り筋をつける
カドを折り上げる

ウサギ／萩原　元（オーストラリア）



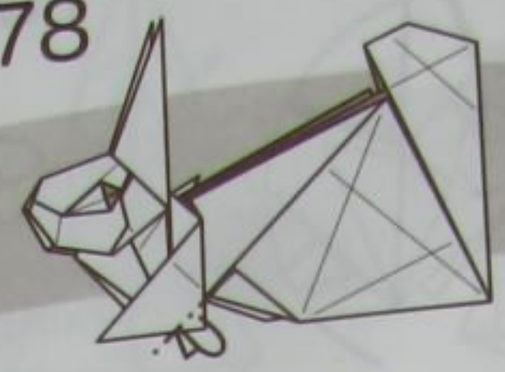
74
70-73
反対側も 70-73
と同様に折る
75
カドを中割り折り
76
■のカドを
引っ張り出す
この縁と☆のカドが
重なるところまでずらす
73
フチにそって内側に
ずらすようにに折る
70
○を結ぶ線で折る
69
112.5°
72
○を結ぶ線でカド
を後ろに折る
71
内側をひろげて
つぶすように折る
68
64
○を支点に両側で
斜めに段折り
65
２つのカドを折り上げる
66
ついている折り筋を
つかってかぶせ折り
67
ついている折り筋を
つかってかぶせ折り

77



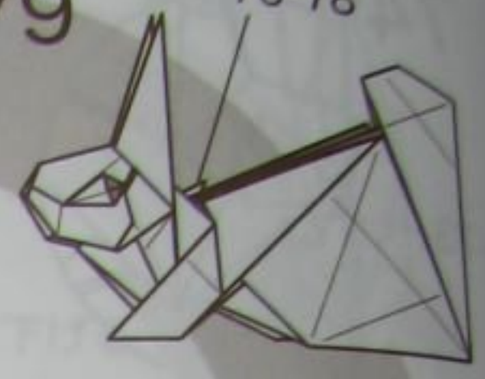
○のところから
辺に垂直に折る

78



カドを折って後ろの
隙間に差し込む

79




反対側も 76-78
と同様に折る

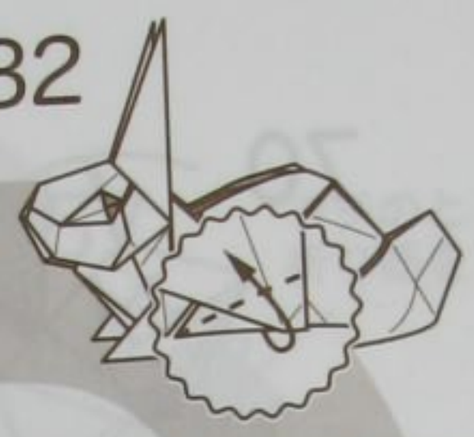
80

○を支点にして
両側で斜めに段折り
立体的になる

81

次図は波線の内側の透視図

82



カドを折って開き留めする

83

反対側も同様に
折って留める

84

○を支点にして
両側で斜めに段折り

85

2つ目の隙間で耳を開く

86

目を丸く開く

できあがり

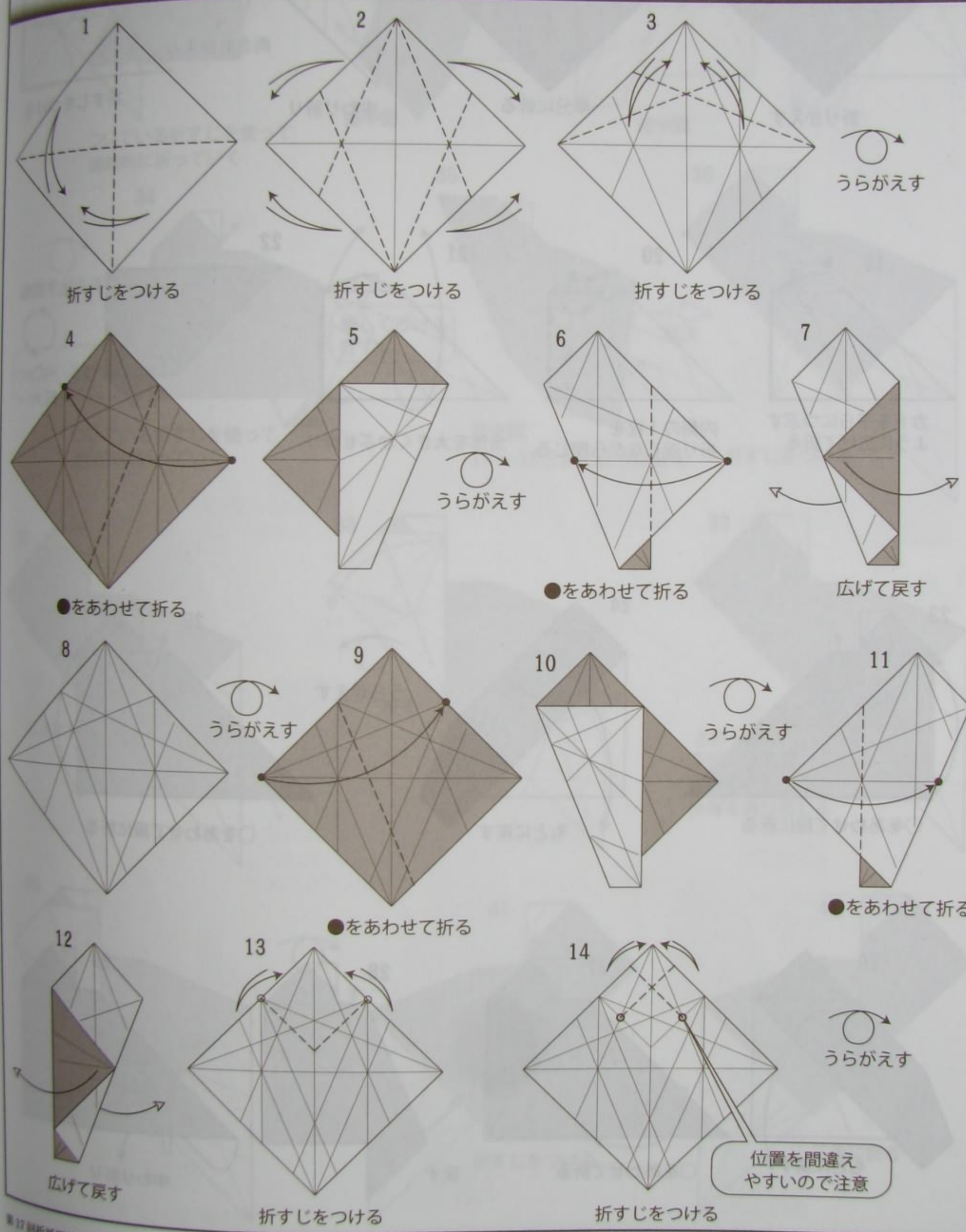
# ねこ Cat

川畑文昭 2011 年 2 月 28 日

*February 28, 2011*

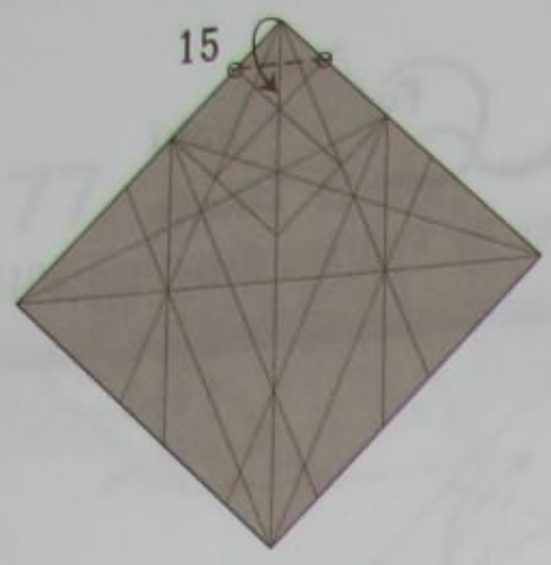
*Kawahata Fumiaki*

Copyright By Fumiaki Kawahata 2011



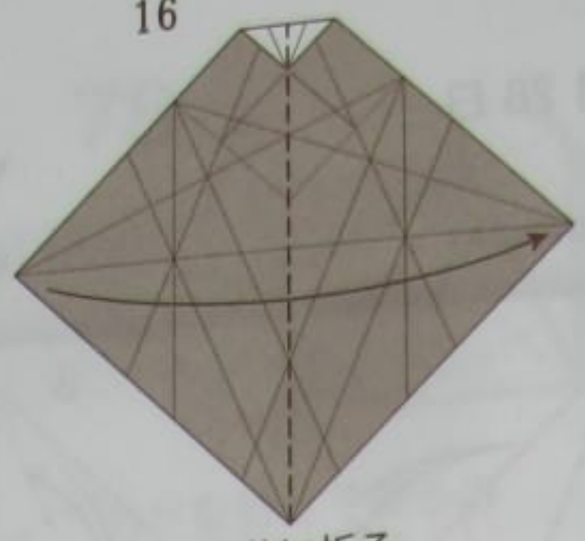
ねこ／川畑文昭（愛知県）

15



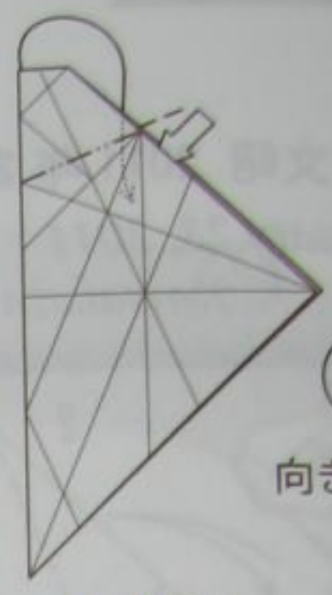
折りかえす

16



半分に折る

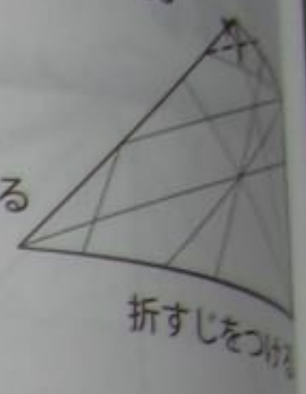
17



中わり折り

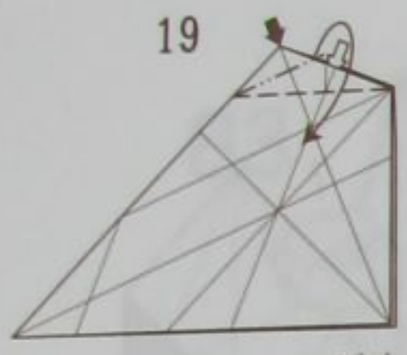
向きをかえる

18



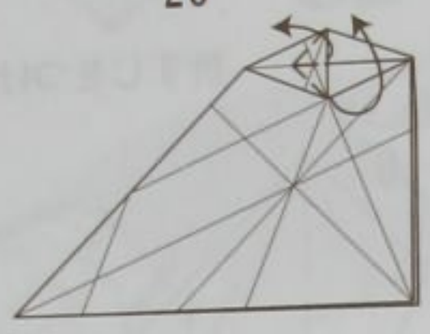
折すじをつける

19



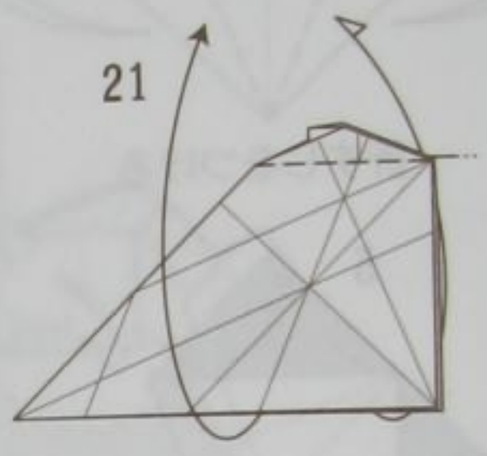
カドを平らにつぶす
ように広げて折る

20



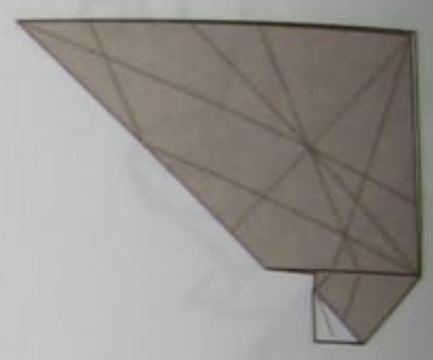
内側の１枚を
折り返しながら閉じる

21



全体を大きくかぶせ折り

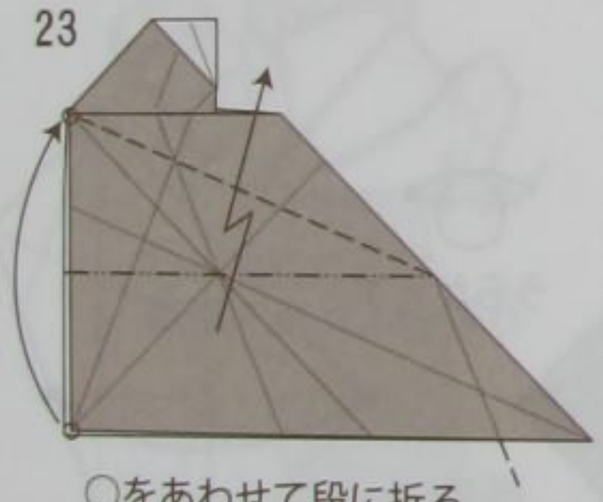
22



上下回転

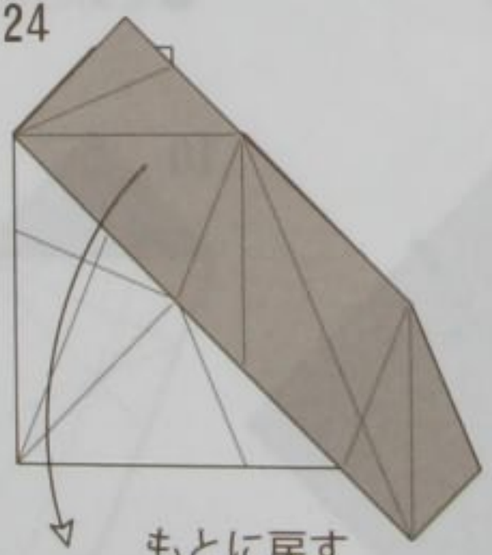
拡大

23



○をあわせて段に折る

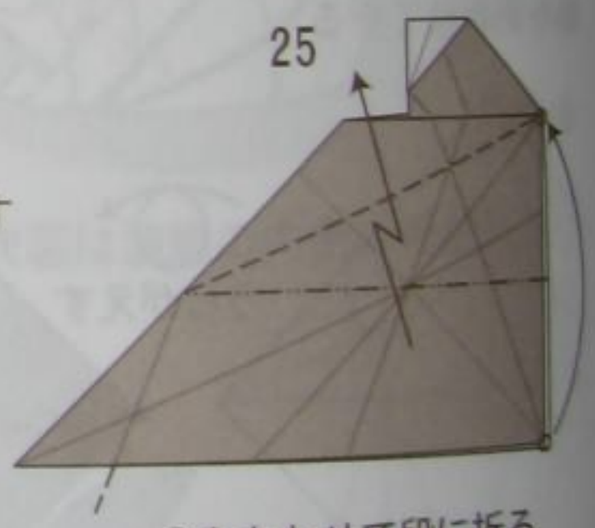
24



もとに戻す

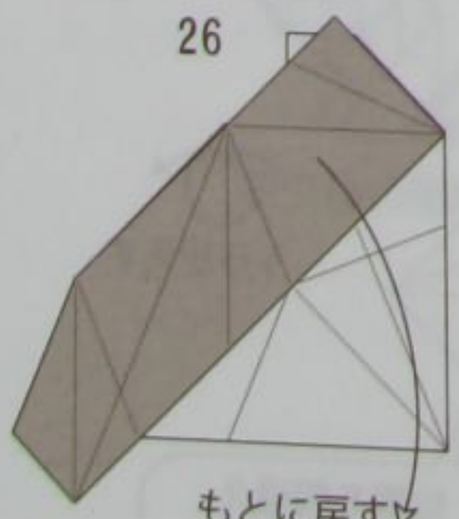
うらがえす

25



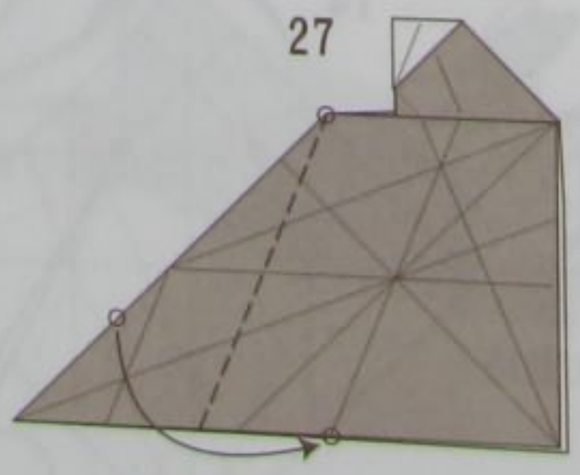
○をあわせて段に折る

26



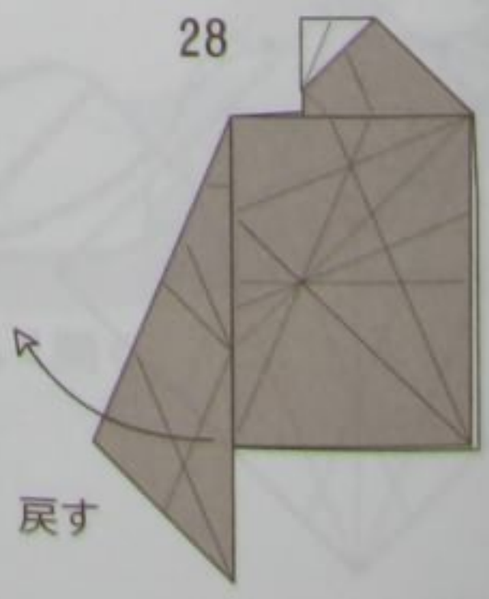
もとに戻す

27



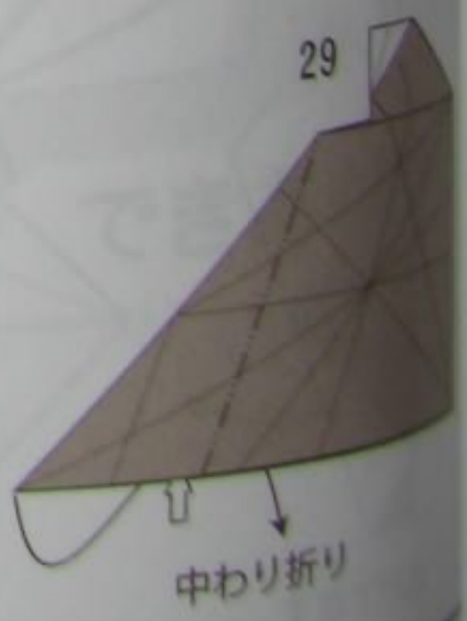
○をあわせて折る

28

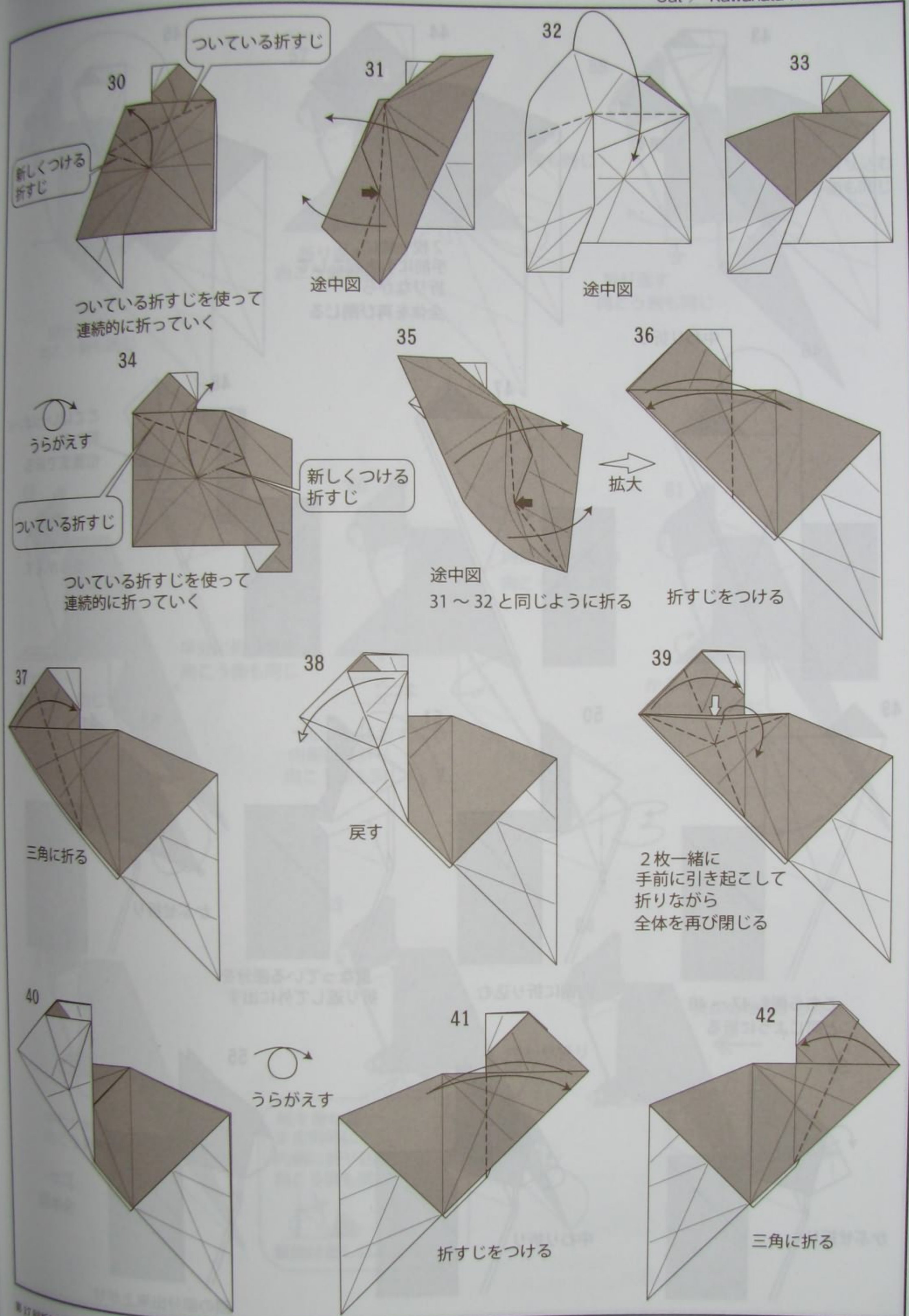


戻す

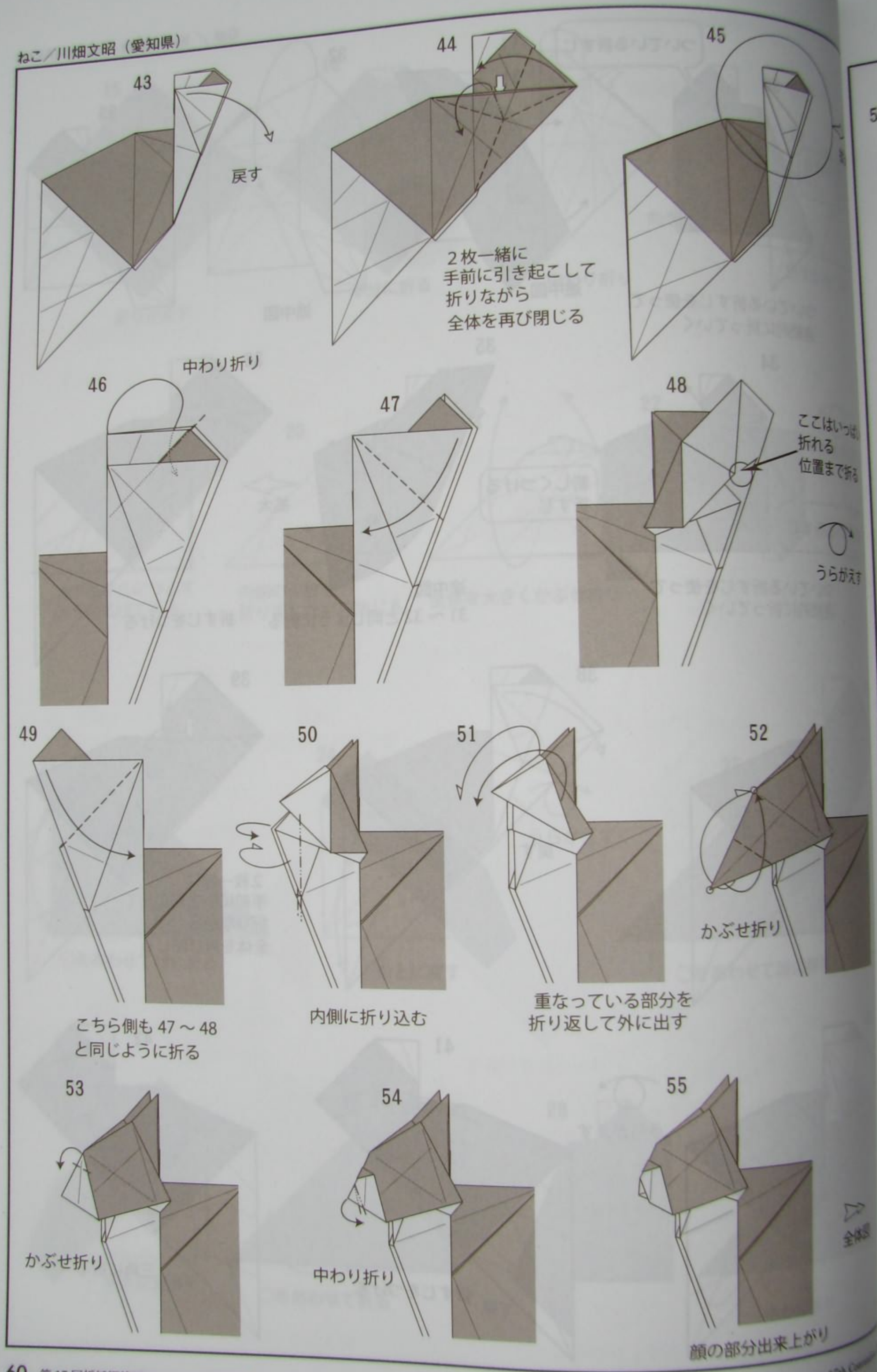
29



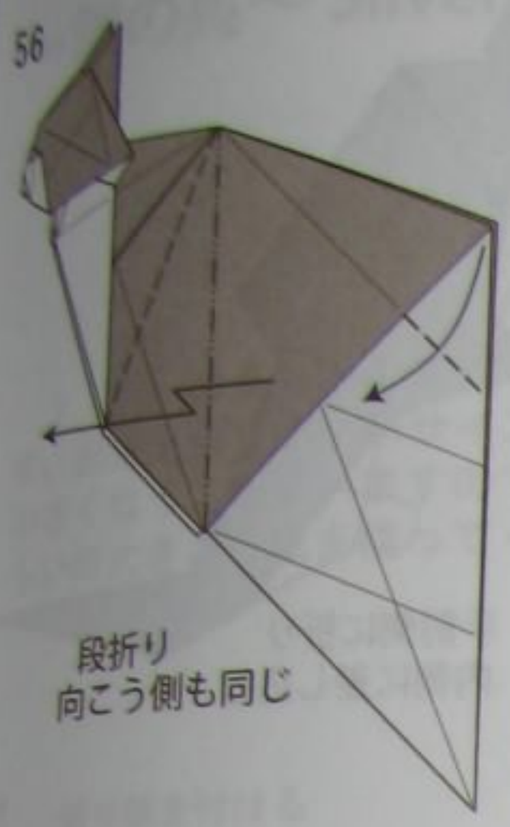
中わり折り


30
ついている折すじ
新しくつける
折すじ
ついている折すじを使って
連続的に折っていく
31
途中図
32
途中図
33
34
うらがえす
ついている折すじ
新しくつける
折すじ
ついている折すじを使って
連続的に折っていく
35
途中図
31 ～ 32 と同じように折る
拡大
36
折すじをつける
37
三角に折る
38
戻す
39
２枚一緒に
手前に引き起こして
折りながら
全体を再び閉じる
40
うらがえす
41
折すじをつける
42
三角に折る

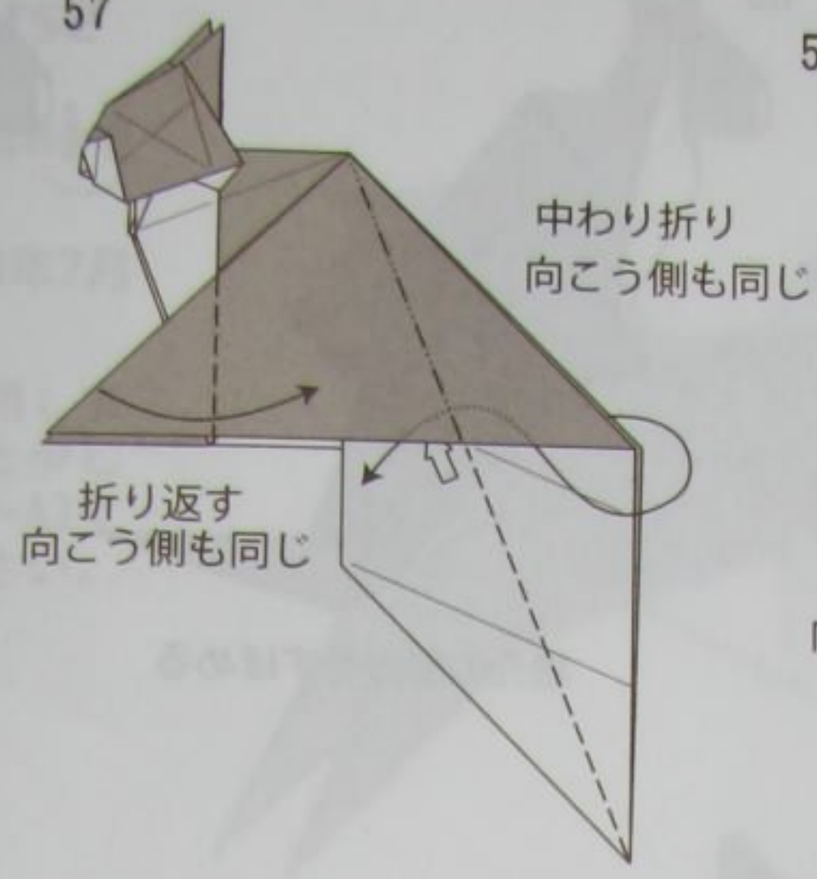
ねこ／川畑文昭（愛知県）


43
戻す
44
45
２枚一緒に
手前に引き起こして
折りながら
全体を再び閉じる
46
中わり折り
47
48
ここはいっぱい
折れる
位置まで折る
うらがえす
49
こちら側も 47 ～ 48
と同じように折る
50
内側に折り込む
51
重なっている部分を
折り返して外に出す
52
かぶせ折り
53
かぶせ折り
54
中わり折り
55
顔の部分出来上がり

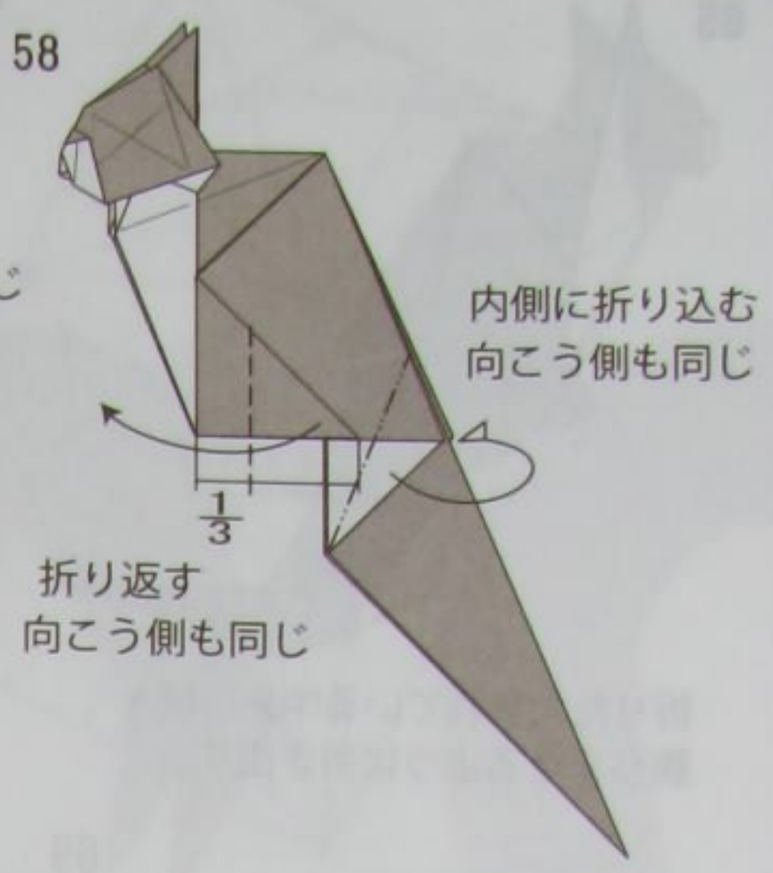
56



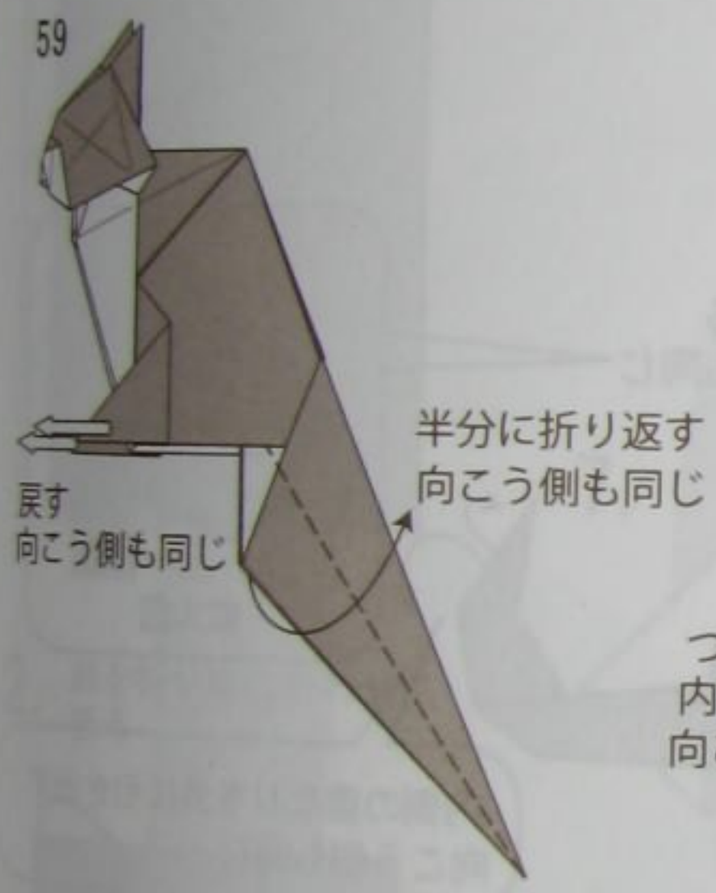

57



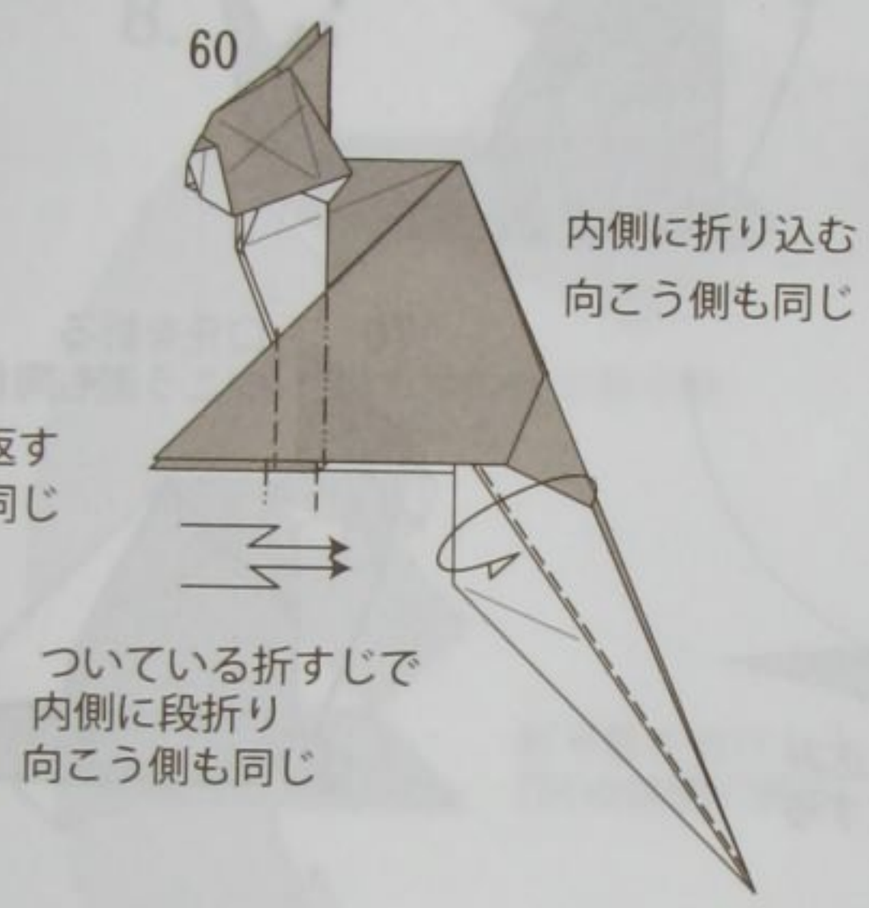

58



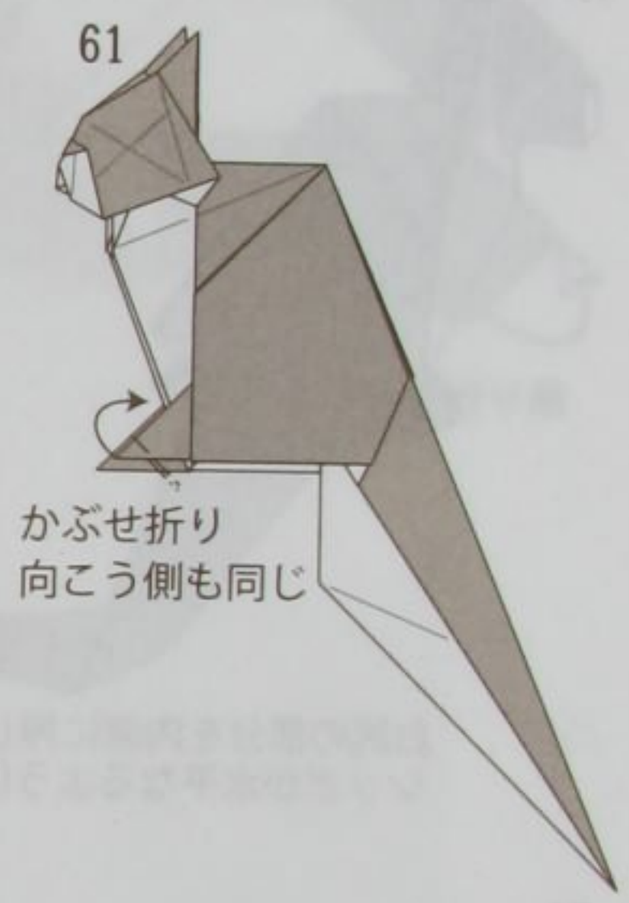

59



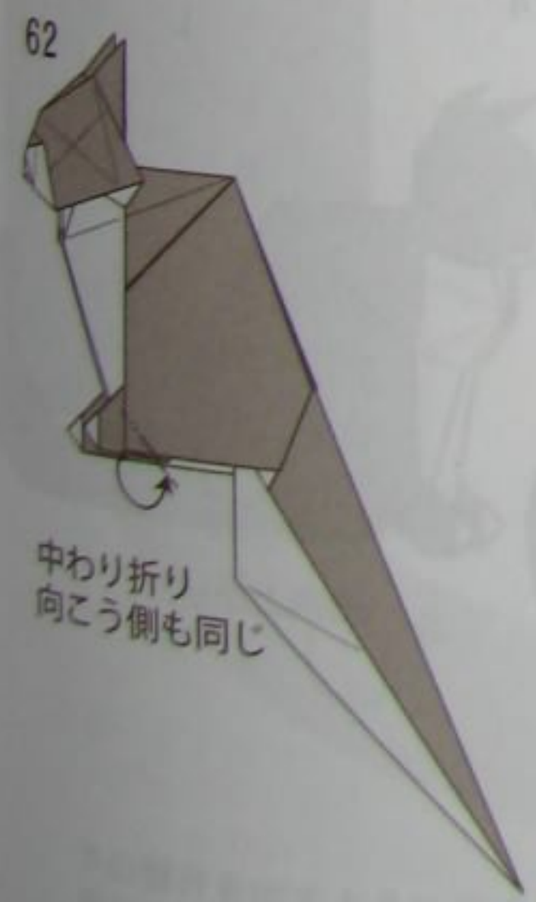

60



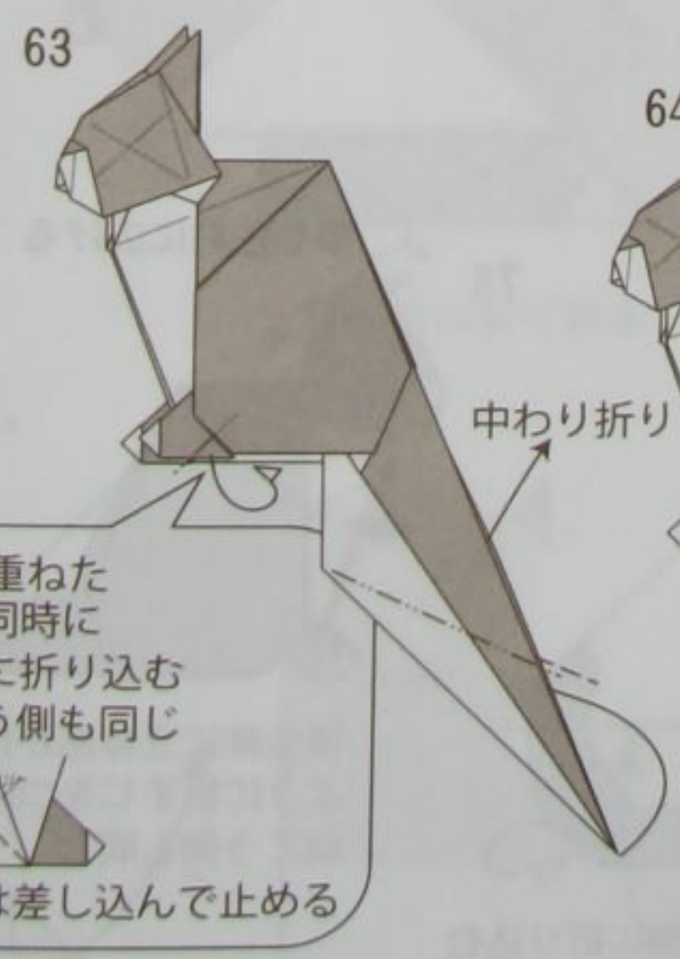

61



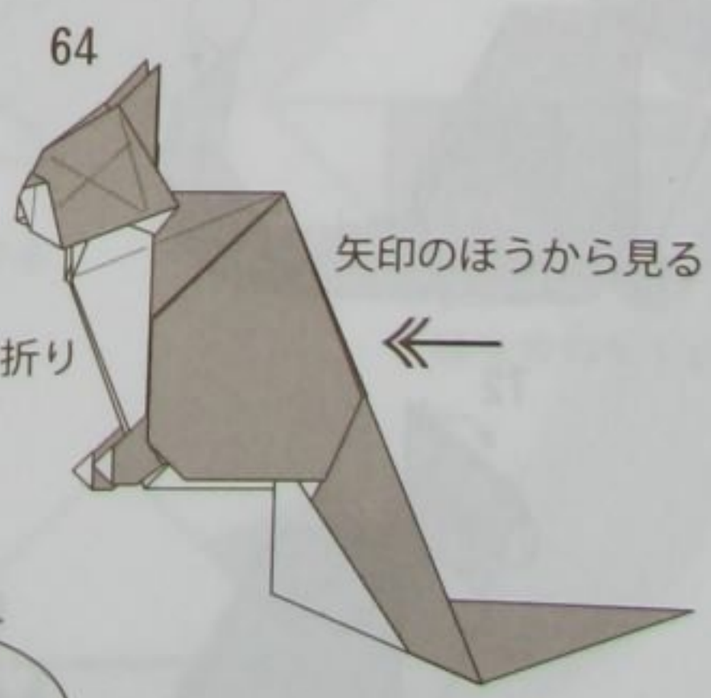

62




63

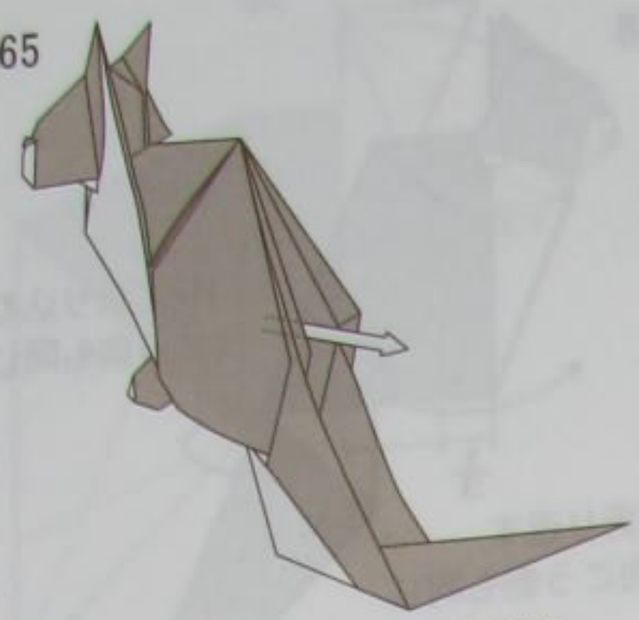



64



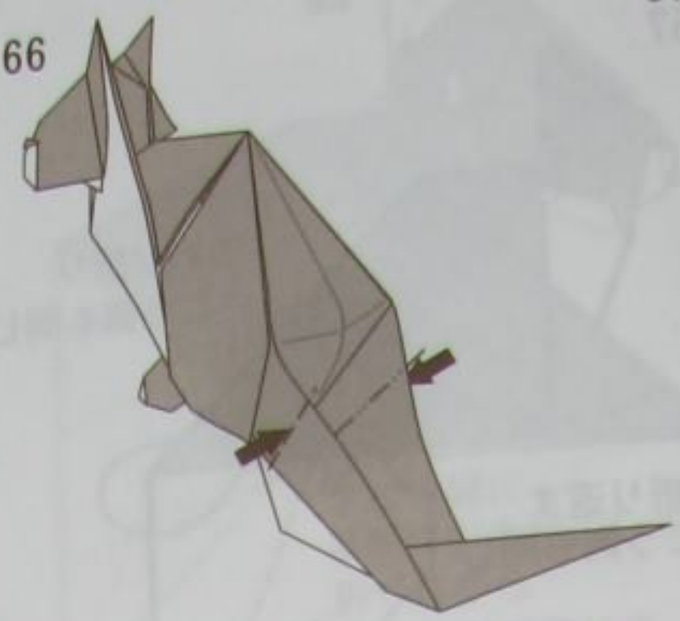
ねこ／川畑文昭（愛知県）

65



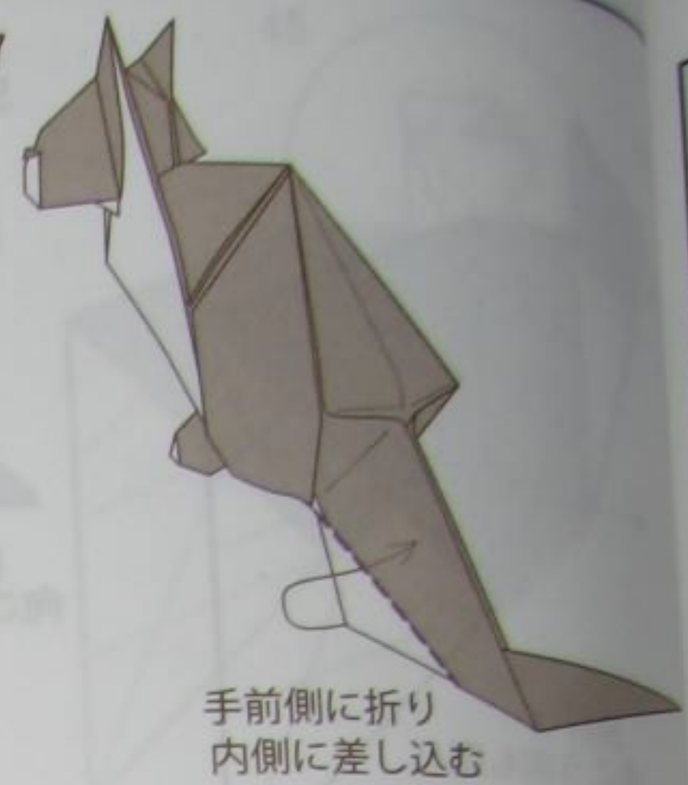
折りたたまれている中央の紙を
膨らませるように引き出す

66



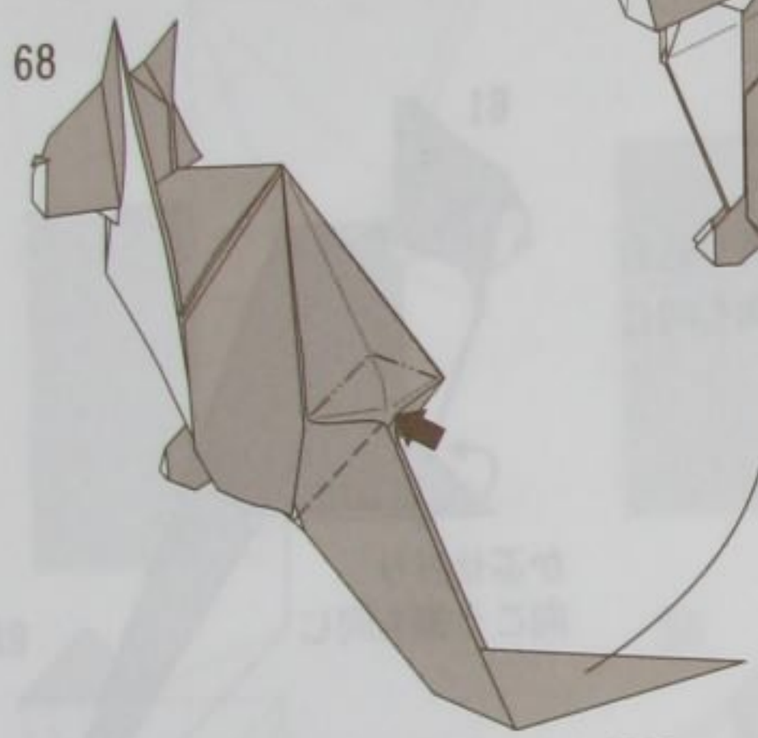
根元の部分をすぼめる

67



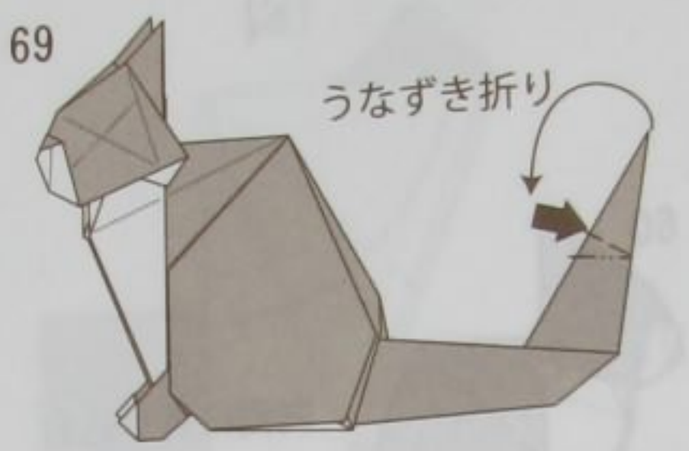
手前側に折り
内側に差し込む

68

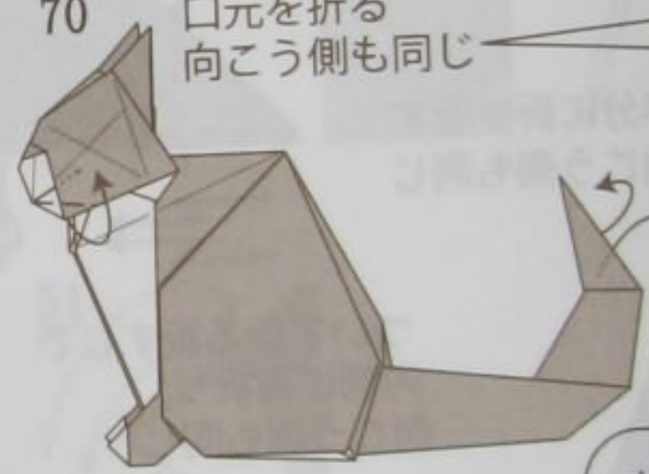


お尻の部分を内側に押し込み
シッポが水平なるようにする

69

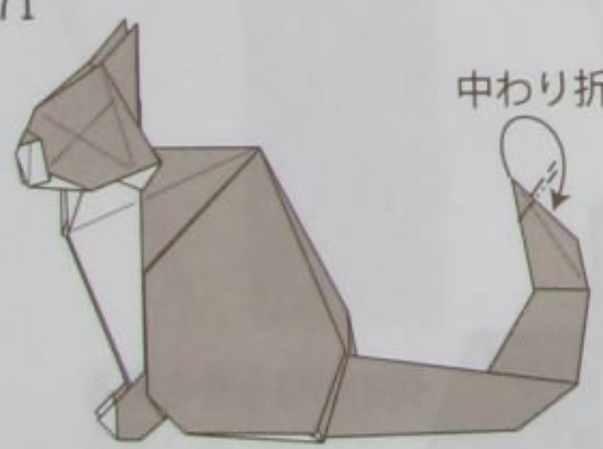



70

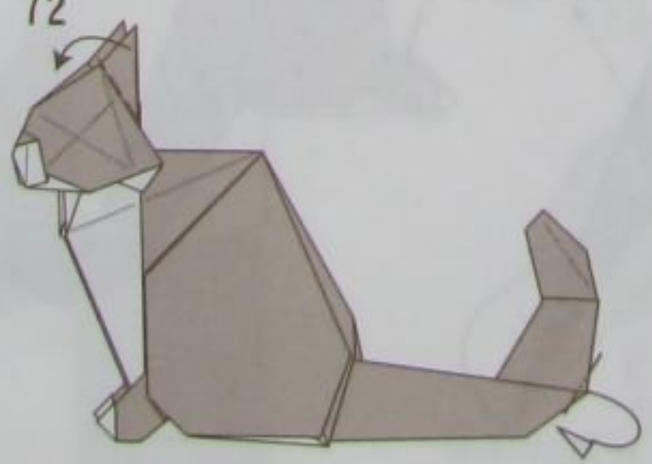


内側の重なりを外に引き出す
向こう側も同じ

71



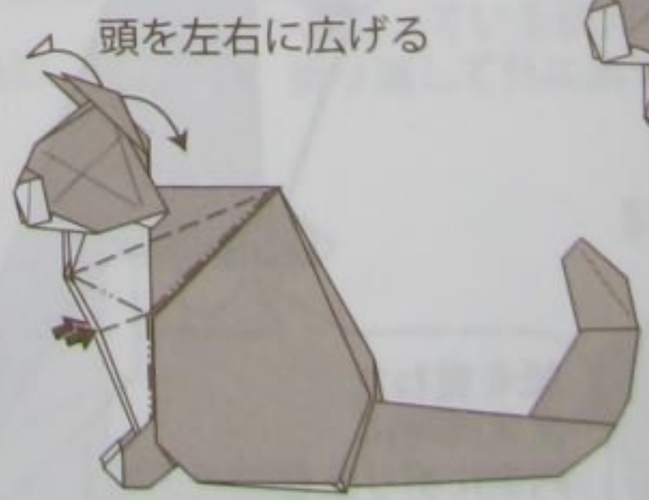

72



耳を折る
向こう側も同じ

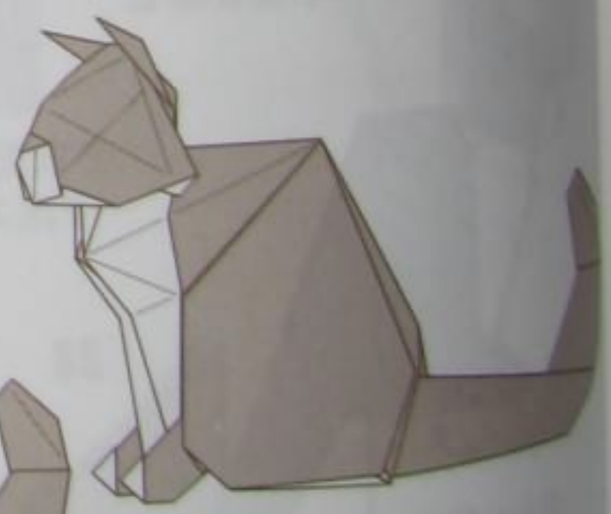
内側に折り込む
向こう側も同じ

73




体全体に立体感が出る
ように折すじをつける
向こう側も同じ

74



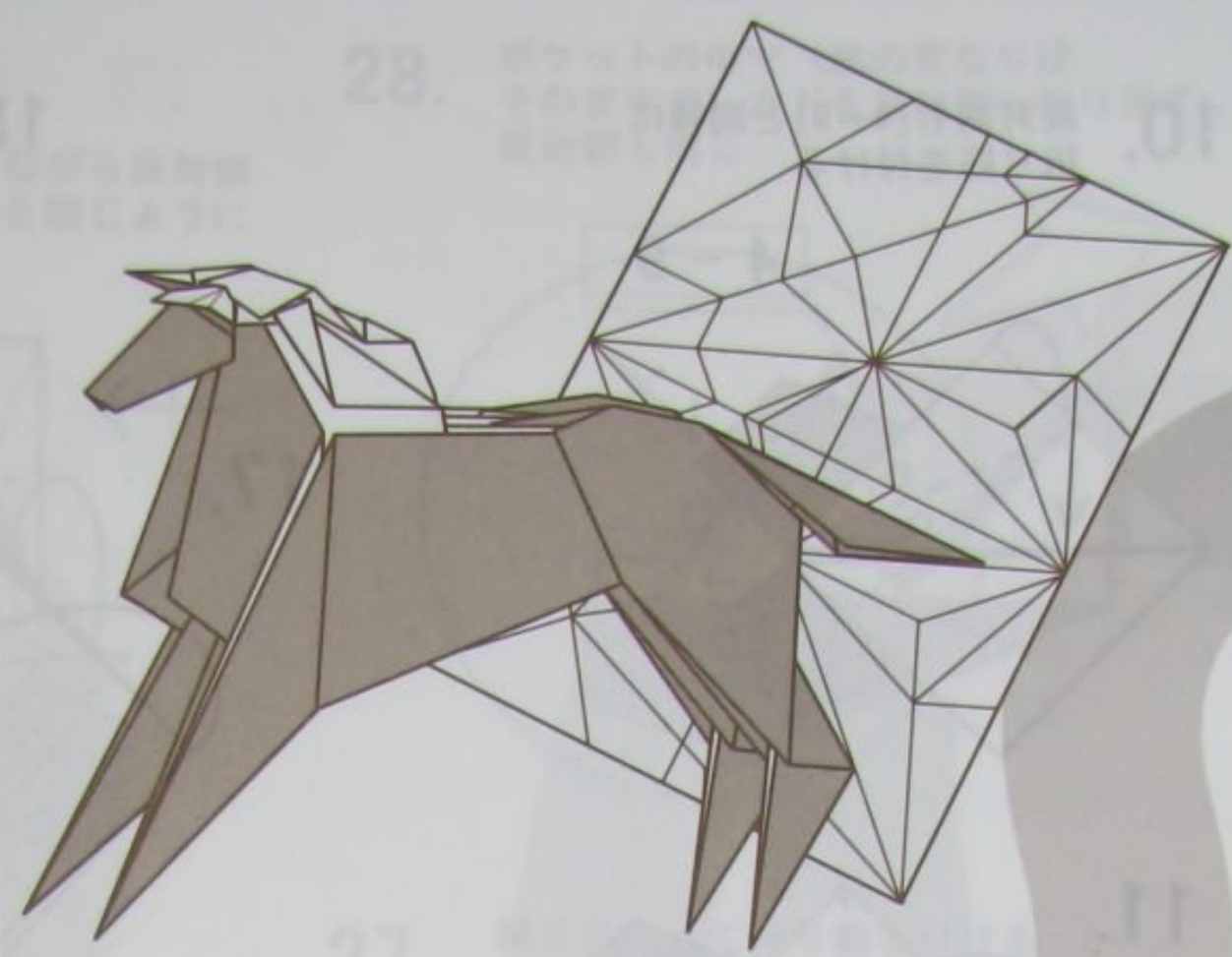
出来上がり

# ～銀の馬～ Silver Horse

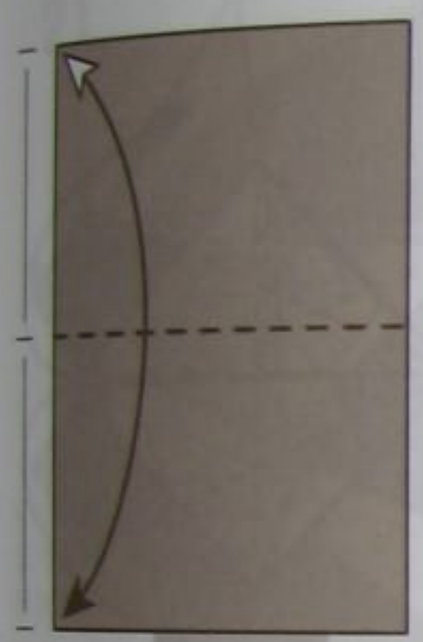
By Kasumi

作／霞　誠志　2010年7月

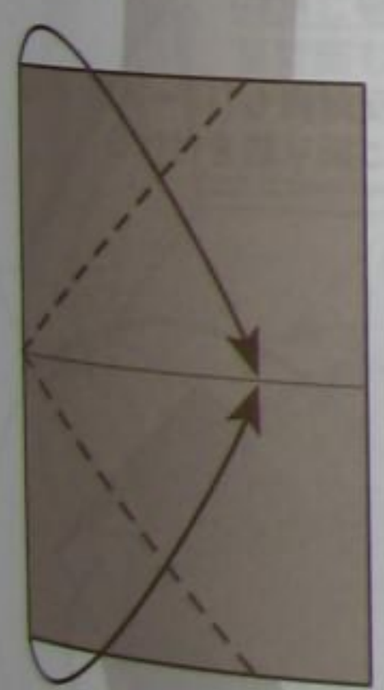
1：√2 の長方形の用紙を使用します。出来上がりが、A4サイズだと少し小さくなってしまいますのでB4～A3ぐらいの大きさの紙を使ってください。



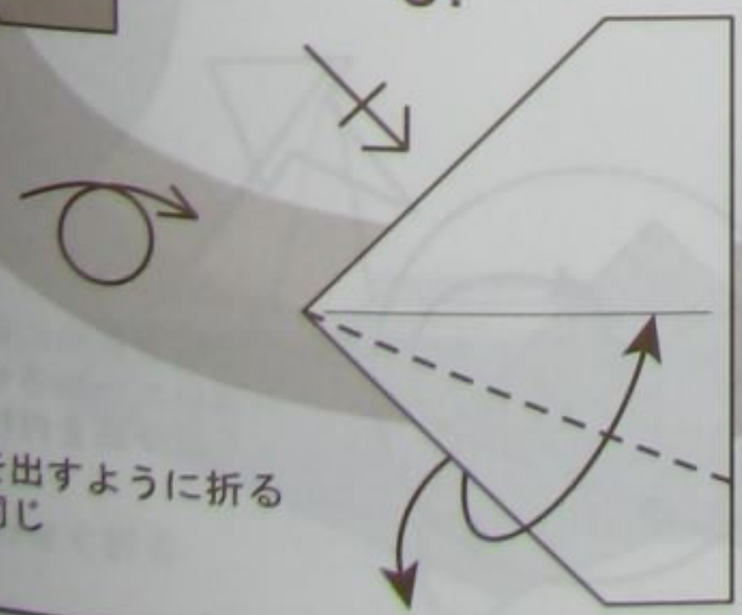
1. 折り筋を付ける



2. 縁を折り筋に合わせて折る

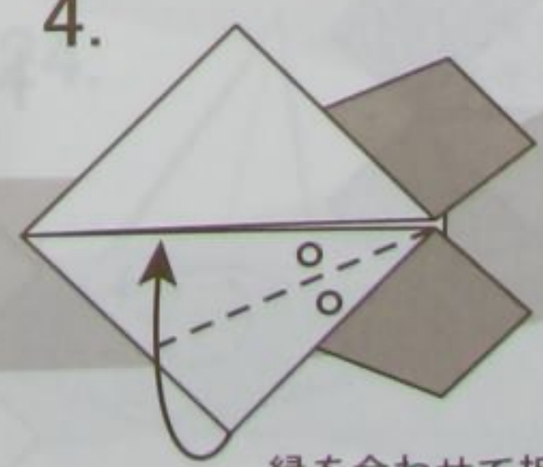


3.



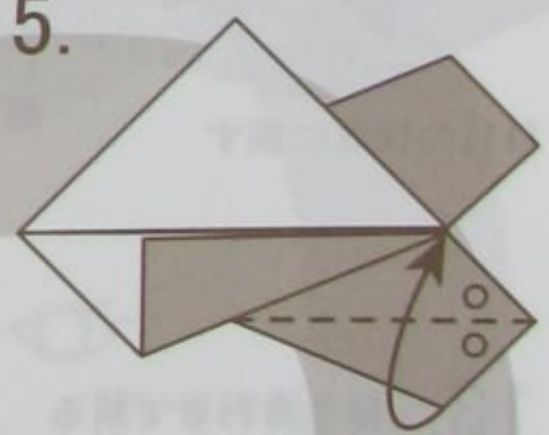
下の部分を出すように折る
反対側も同じ

4.



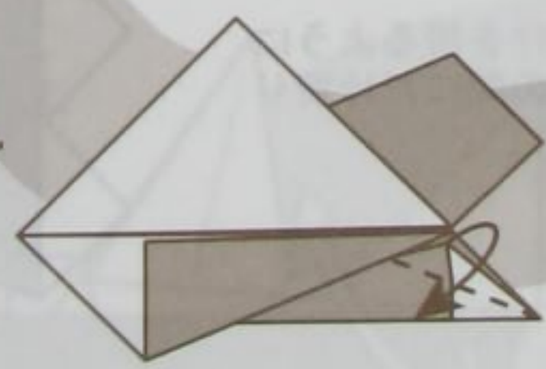
縁を合わせて折る

5.



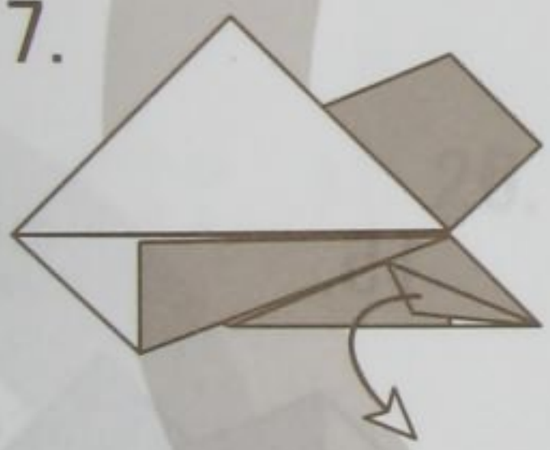
縁を合わせて折る

6.



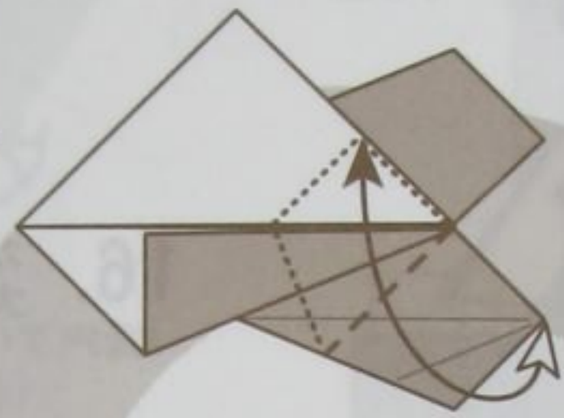
縁を合わせて折る

7.



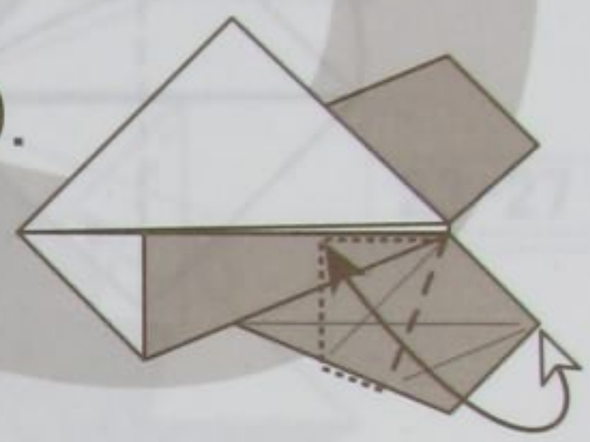
折り筋を付けたら、
[5]の状態に戻す

8.



縁を合わせて折り筋を付ける

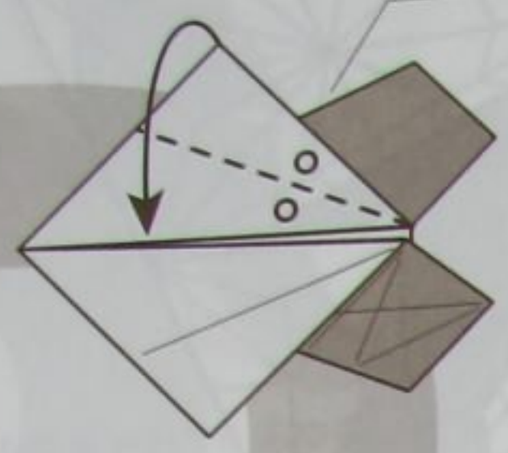
9.



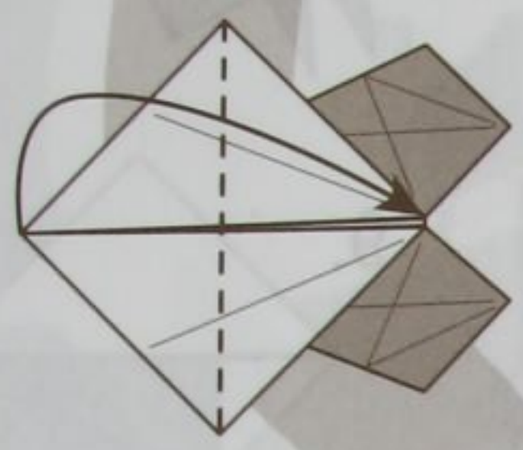
縁を合わせて折り筋を付ける

10. 反対側も[4〜9]と同様に折り筋を付ける

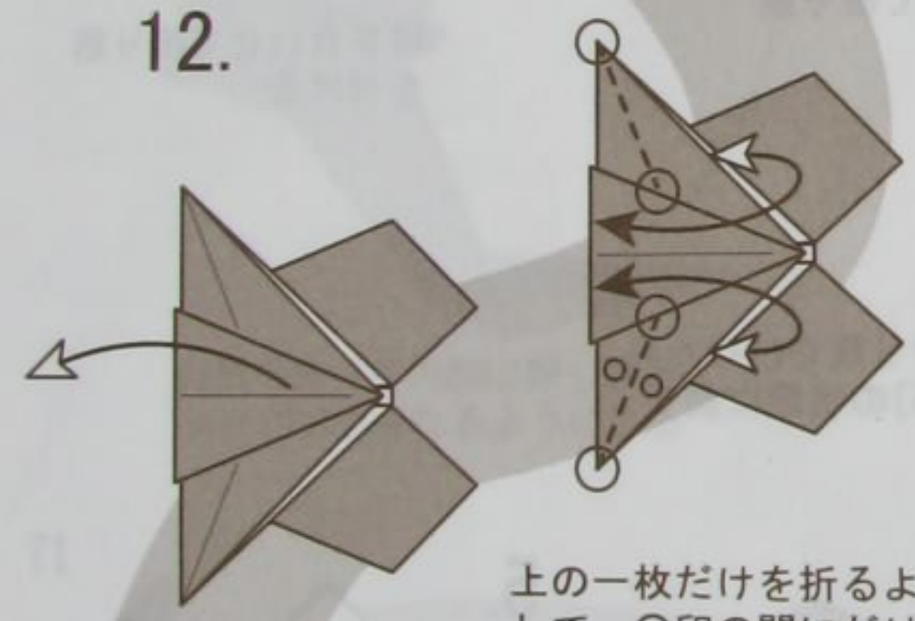
4 − 9



11.



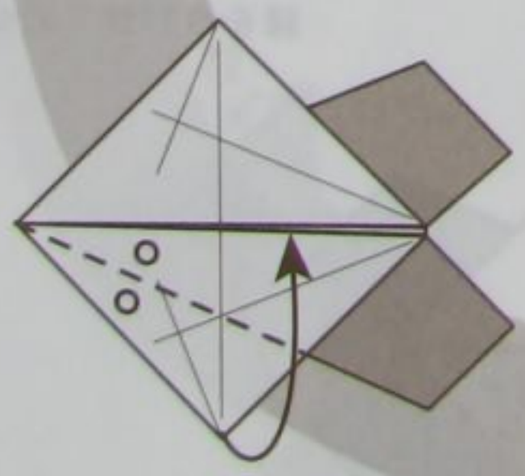
12.



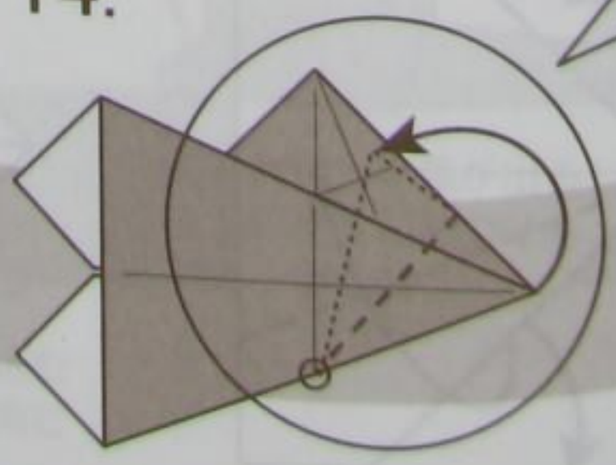
[11]の状態に戻す

上の一枚だけを折るようにして、○印の間にだけ折り筋を付ける

13. 縁を合わせて折る

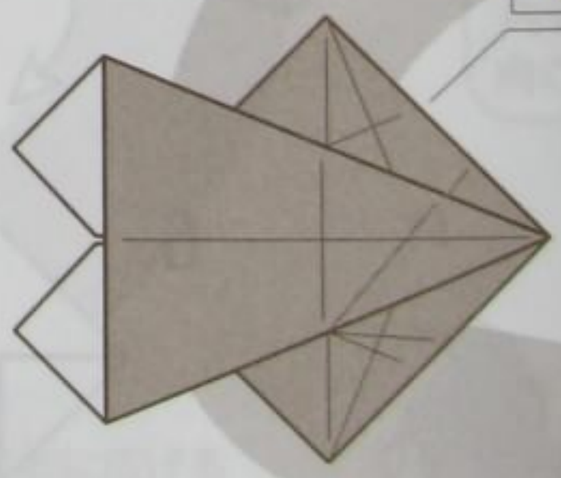


14.



○印を基点に縁を折り筋の交点と一致させるようにして折り筋を付ける

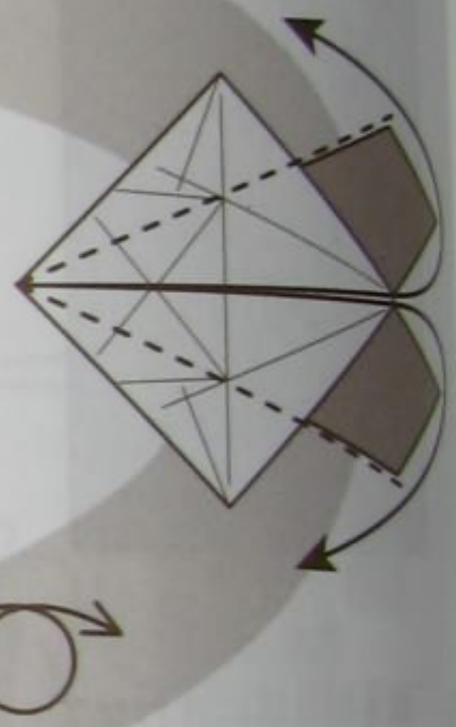
15.



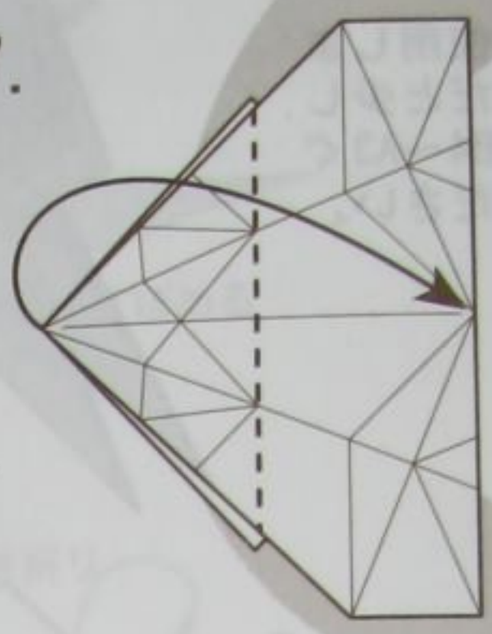
13−14

反対側も[13〜14]と同様に折り筋を付ける

16. カドを反対側へ大きく折り返す



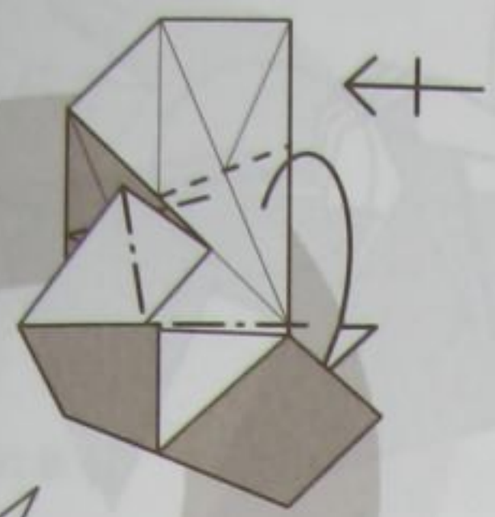
17.



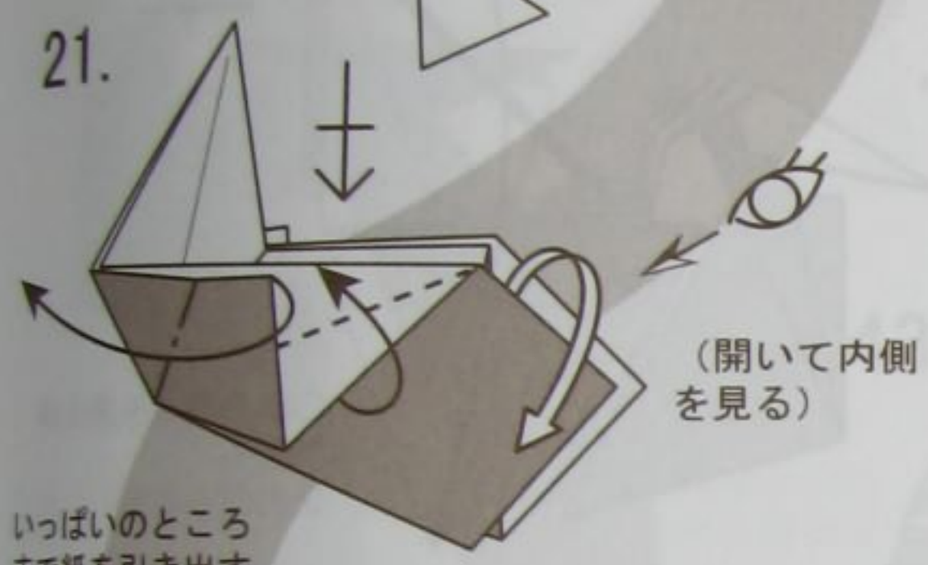
18. [14]で付けた折り筋で折る
この時浮いてくる部分は次の図のように平らに畳む

19. 途中図

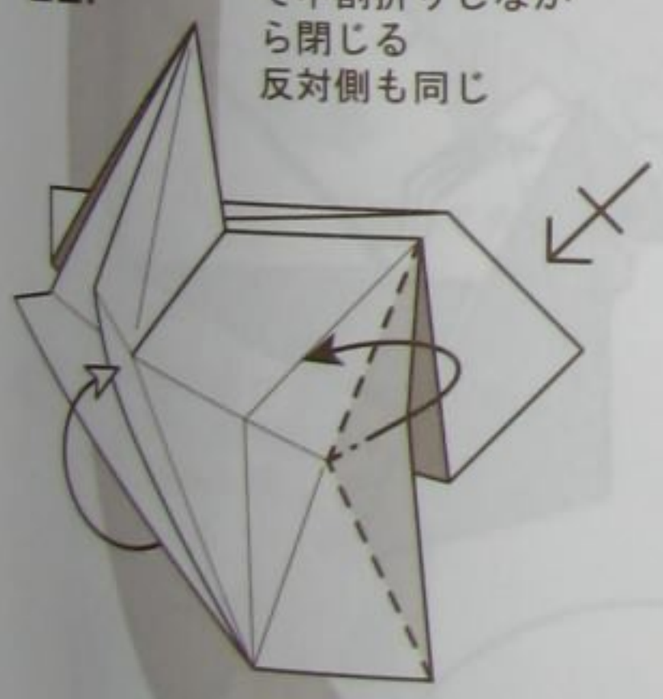
20. 半分に折りながら反対側を[18～19]と同じようにまとめる



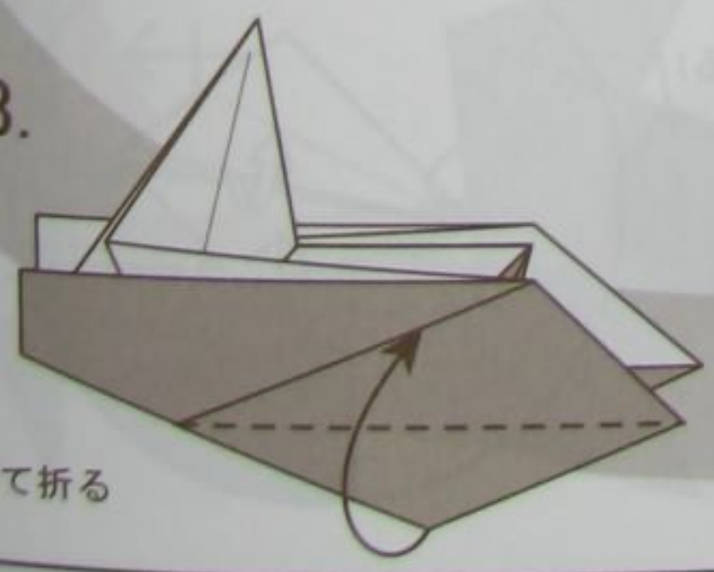
21.



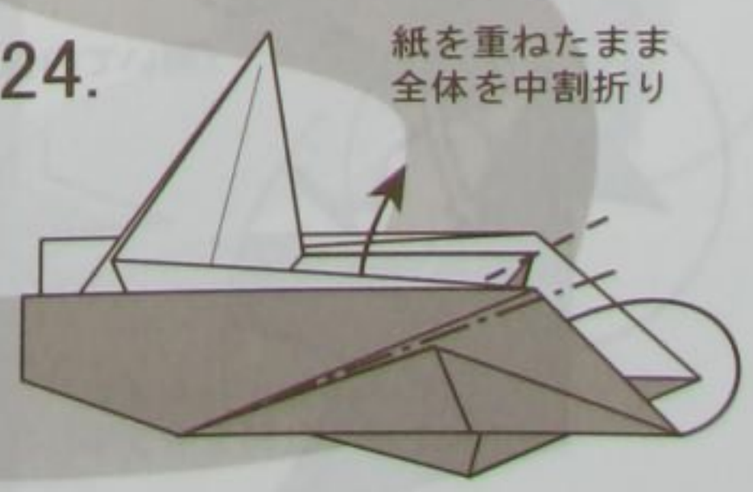

22. [6]で付けた折り筋で中割折りしながら閉じる
反対側も同じ



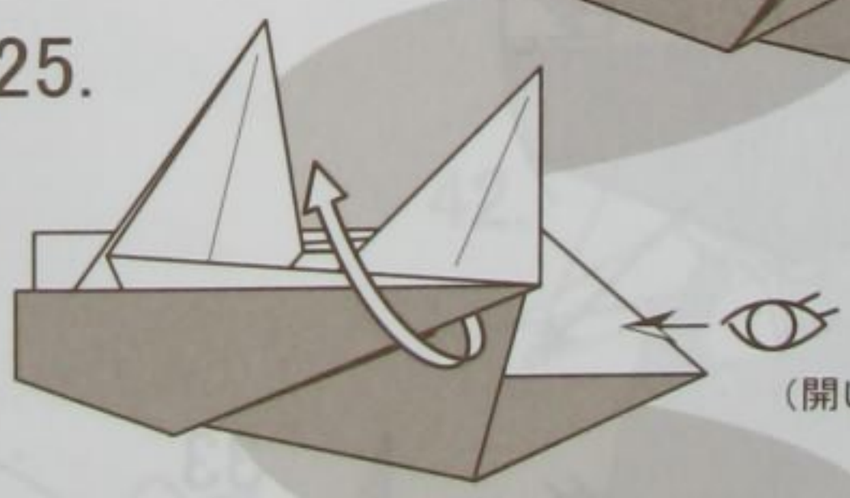
23.



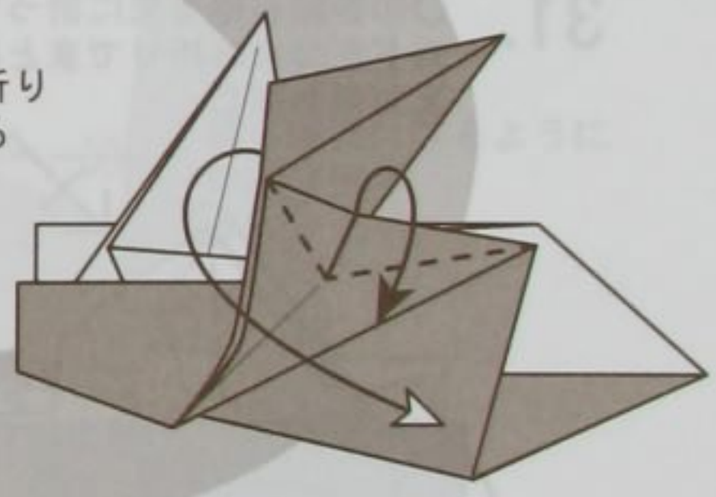

24.



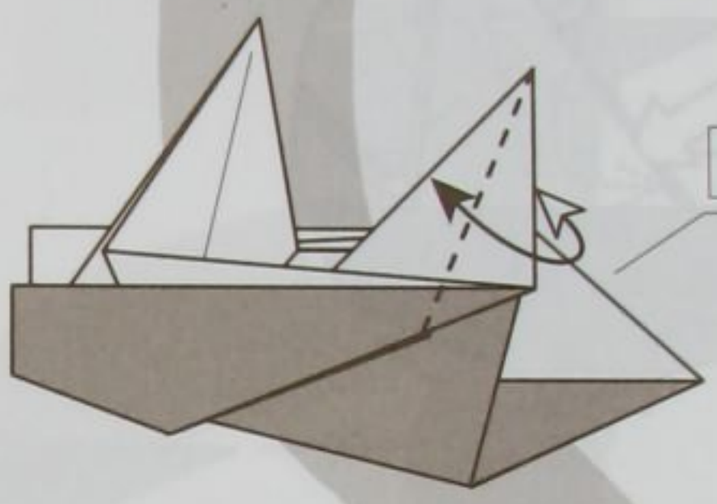

25.



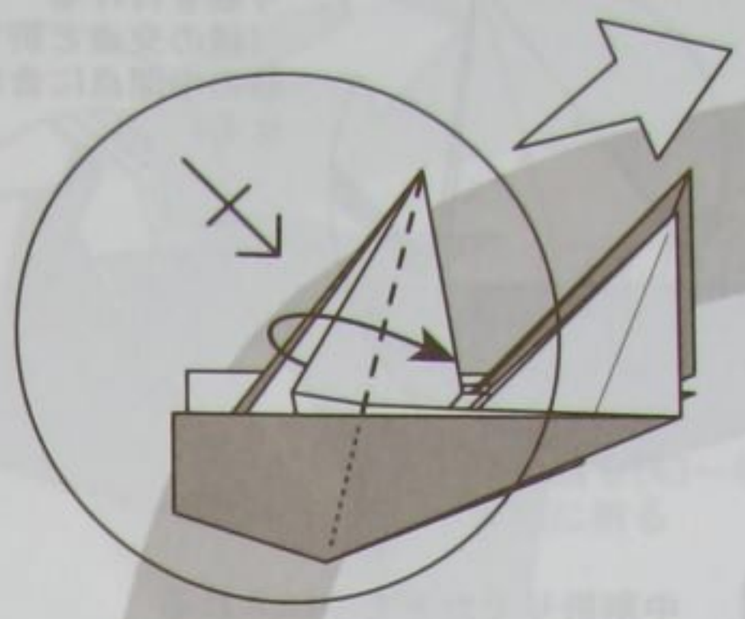

26. カドを間に折りながら閉じる



27. 縁を合わせて折り筋を付ける
反対側も[23～27]と同様に折る

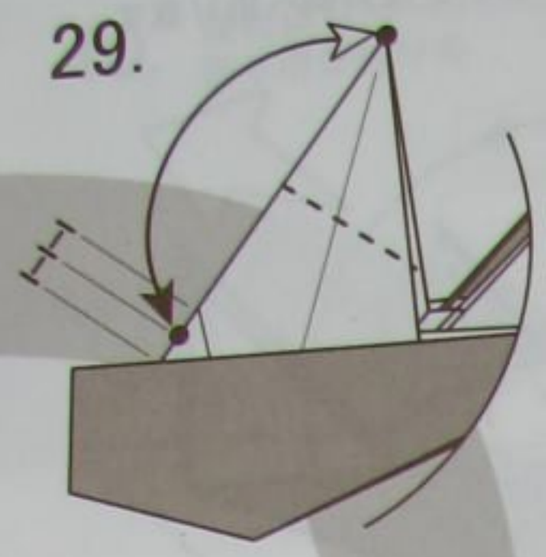



28. ポケットの中で（紙の重なりはそのままで）カドを反対側へ折り返す
反対側も同じ



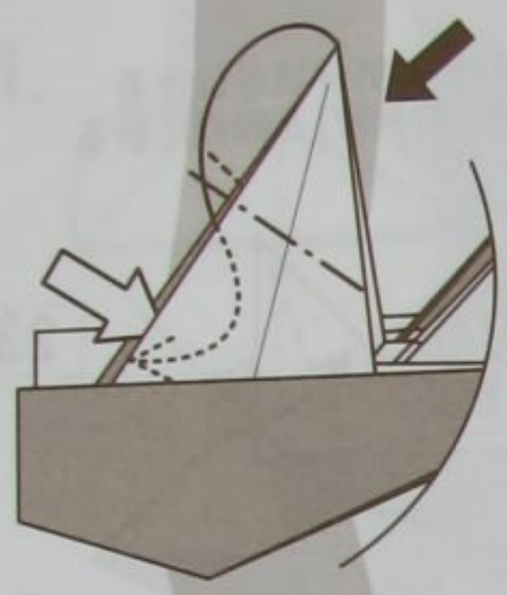
銀の馬／霞　誠志（千葉県）

29.

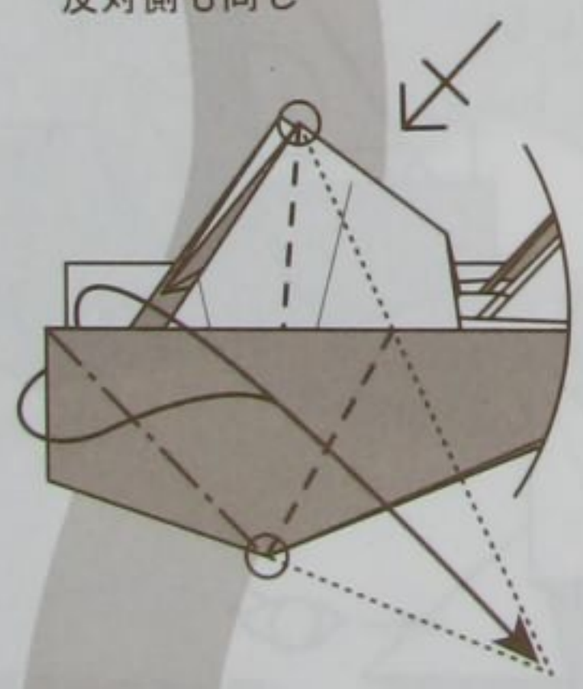


●印を合わせて折り筋を付ける
（縁の交点と折り筋の中間点に合わせる）

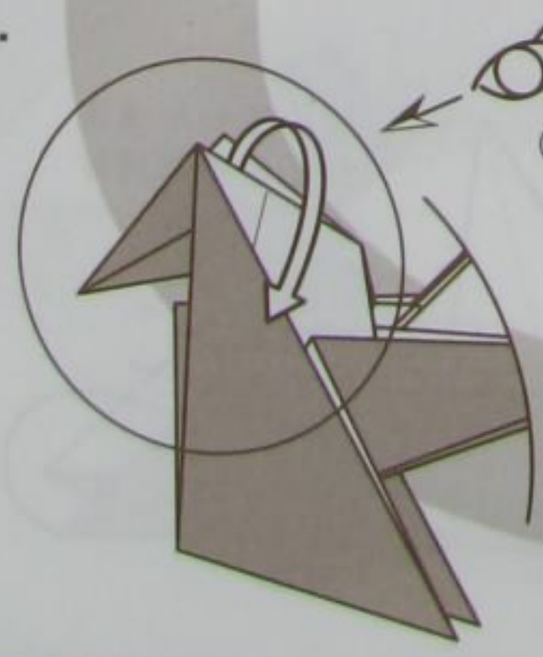
30. 中割折りでカドを中に入れる



31. ○印を結ぶ線を先に折ってから
カドをつまみ折りでまとめる
反対側も同じ

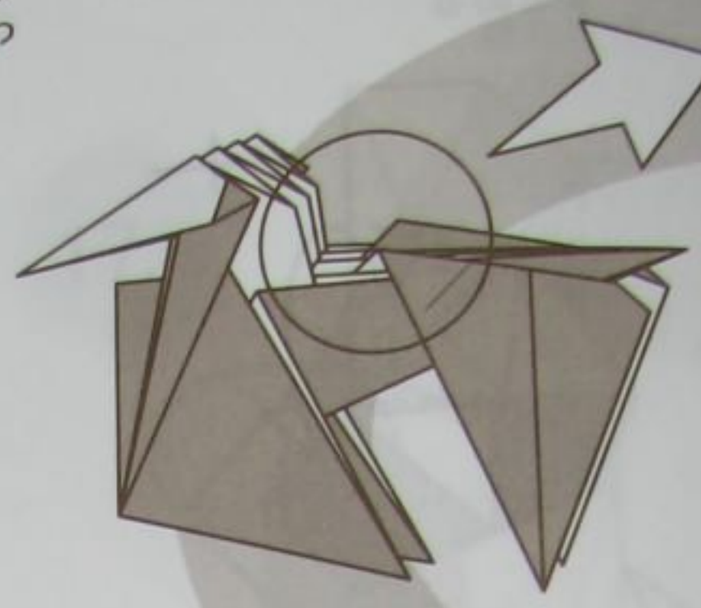


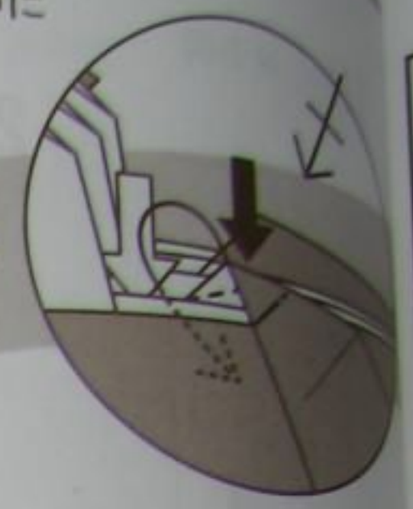
32.



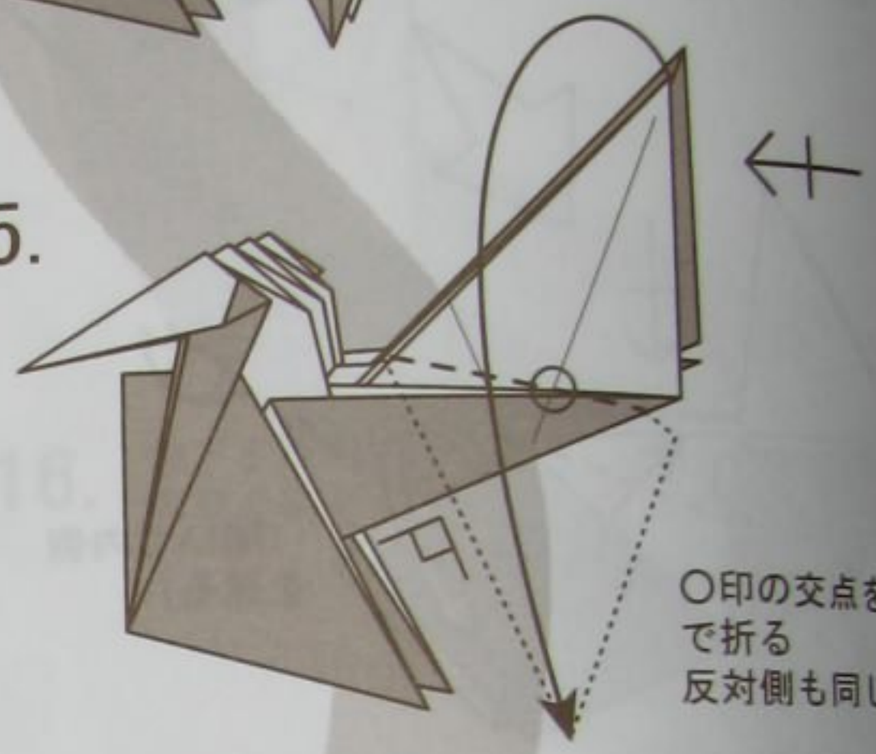
（開いて内側を見る）

36. 中割折りでカドを中に
入れる
反対側も同じ



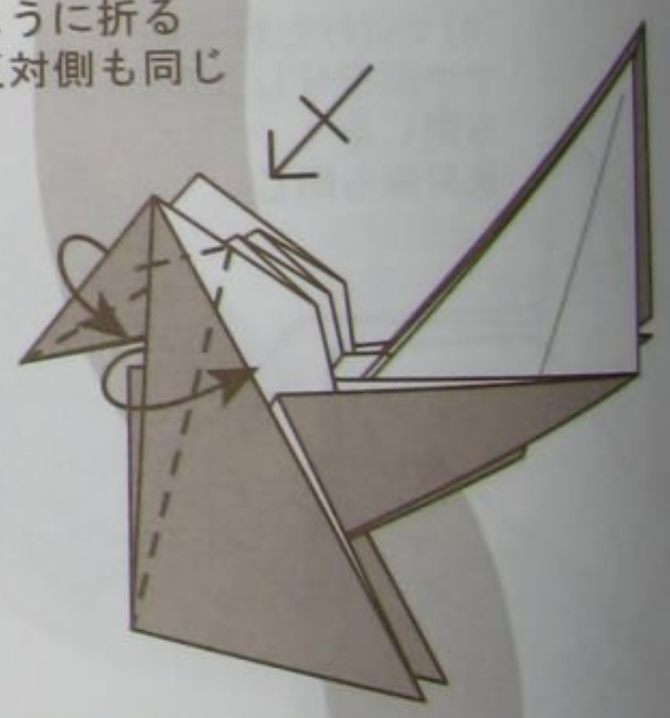


35.

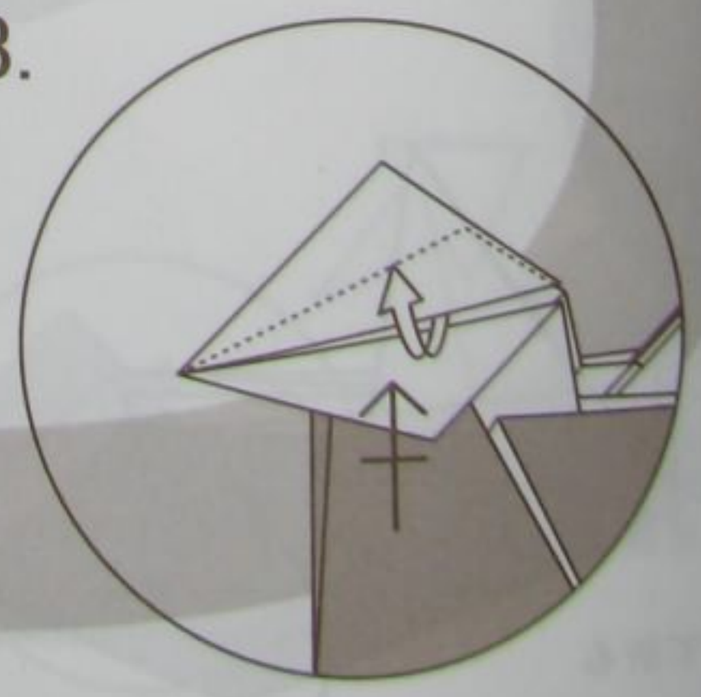


○印の交点を通る線
で折る
反対側も同じ

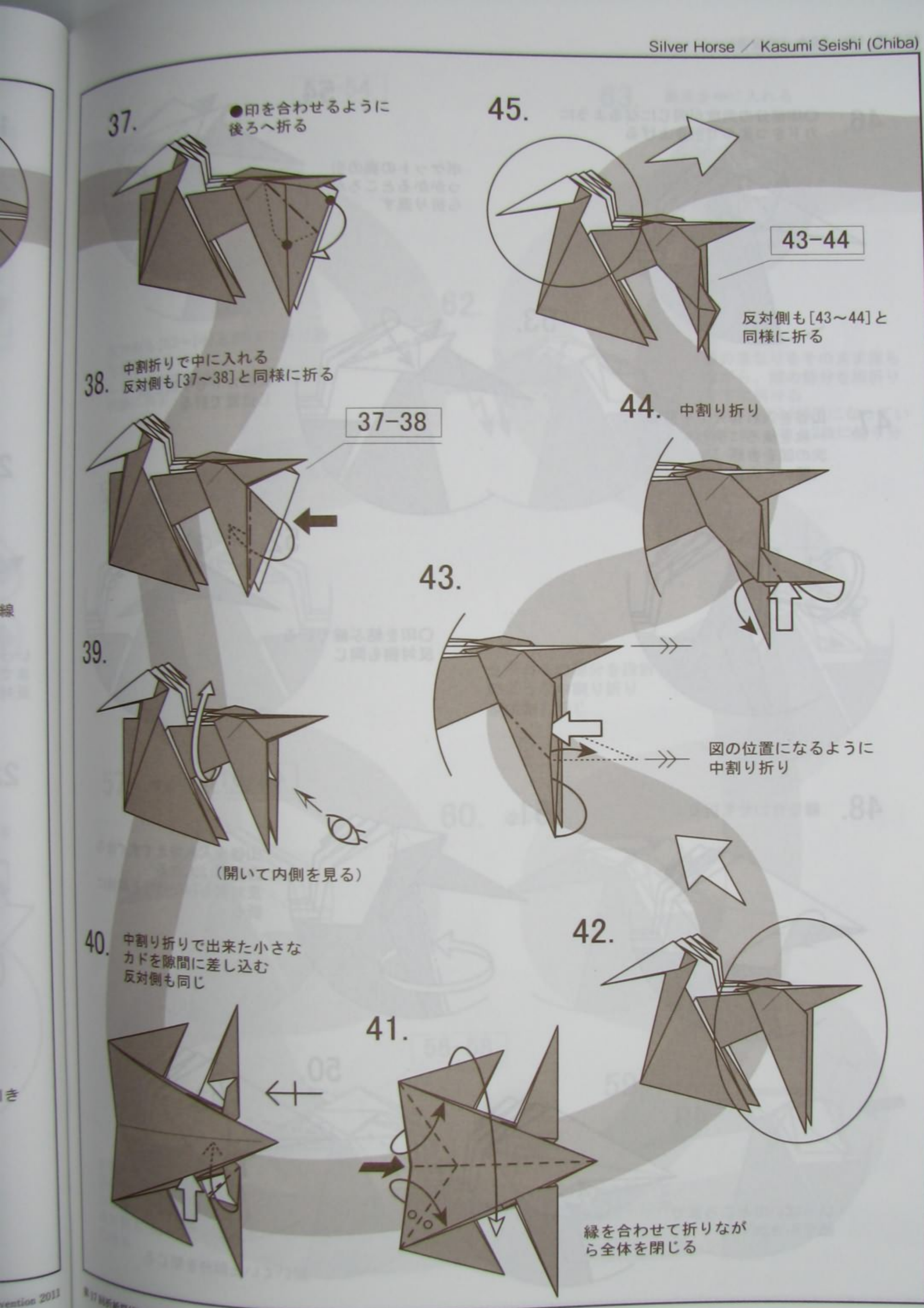
34. 後ろの縁に合わせて引き寄せる
ように折る
反対側も同じ



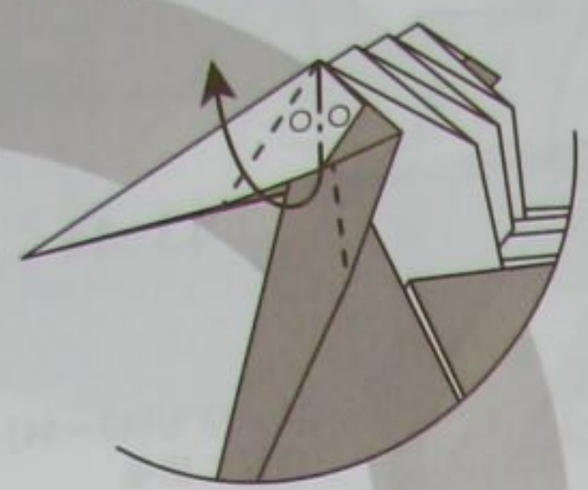
33.



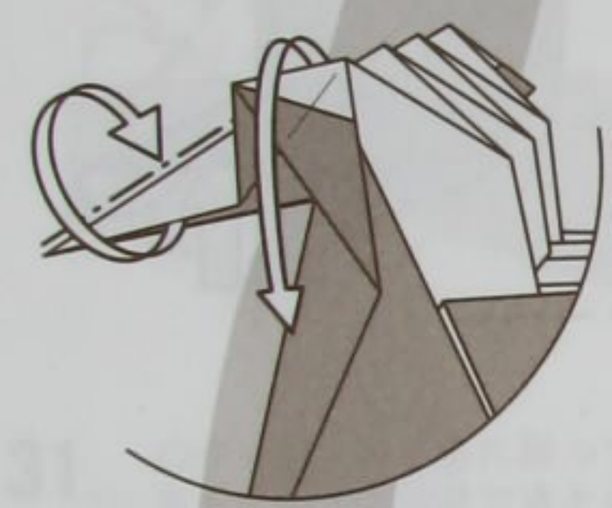
内側のカドを引き
出す
反対側も同じ


37.
●印を合わせるように
後ろへ折る
38.
中割折りで中に入れる
反対側も[37～38]と同様に折る
37-38
39.
（開いて内側を見る）
40.
中割り折りで出来た小さな
カドを隙間に差し込む
反対側も同じ
41.
縁を合わせて折りなが
ら全体を閉じる
42.
43.
図の位置になるように
中割り折り
44.
中割り折り
45.
43-44
反対側も[43～44]と
同様に折る

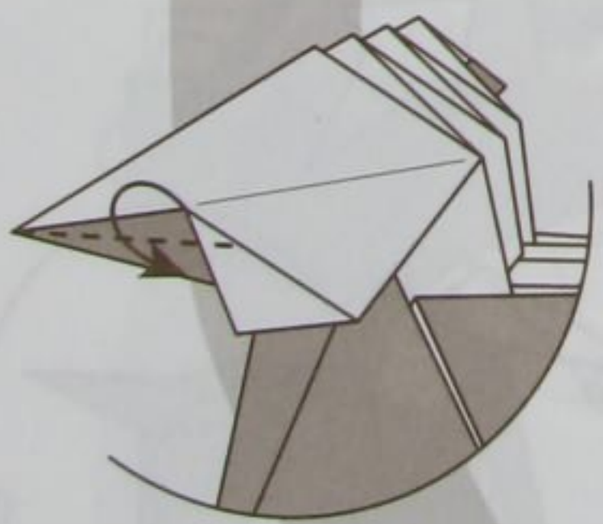
46. ○印部分の角度が同じになるように
カドをつまんで引き上げる



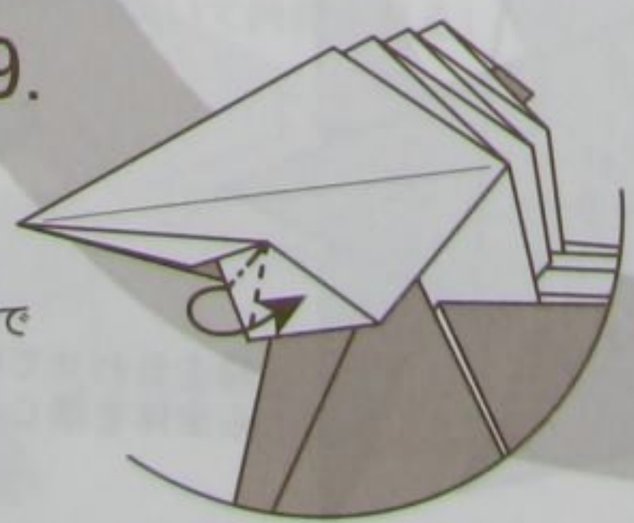
47. 山谷を入れ替えて手前の
一枚を後ろにまわす
次の図を参照
（開いて内側を見る）



48. 縁を合わせて折る

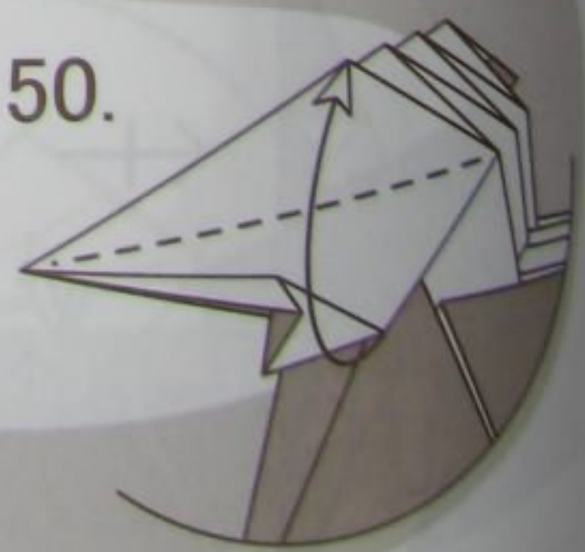


49.



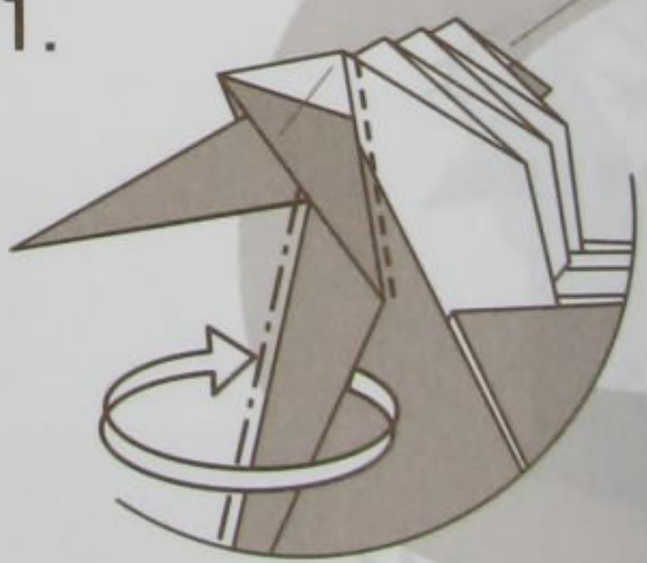
いっぱいのところまで
紙を引き出す

50.



開いていた部分を閉じる

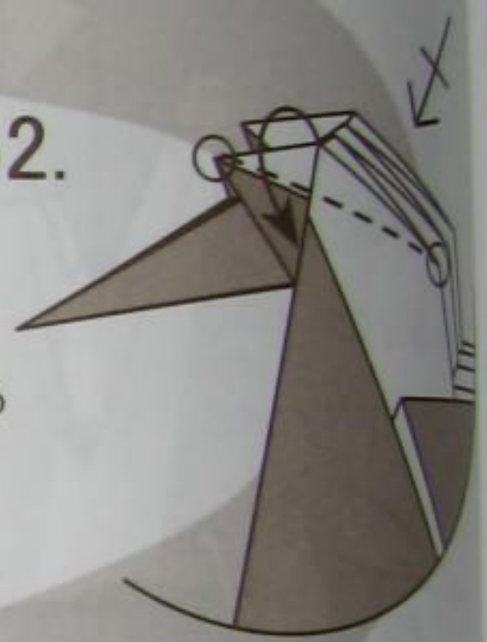
51.



46-51

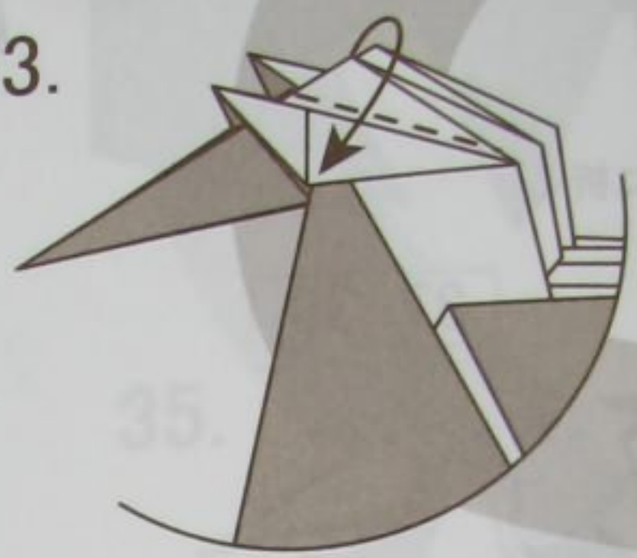
山谷を入れ替えてすぐ後ろ
の隙間に入れる
反対側も[46～51]と同様に
折る

52.



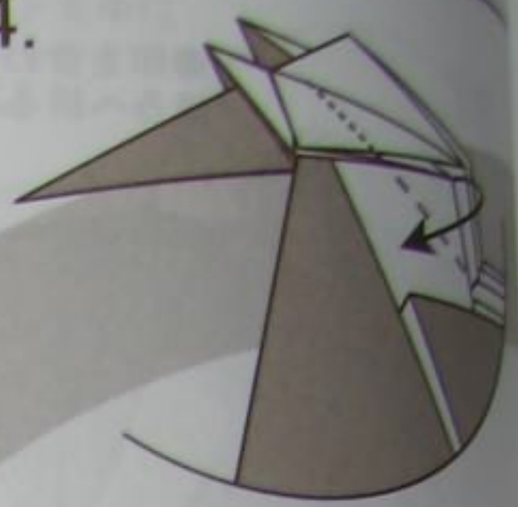
○印を結ぶ線で折る
反対側も同じ

53.



次のカドも手前と同
じ位置で折る

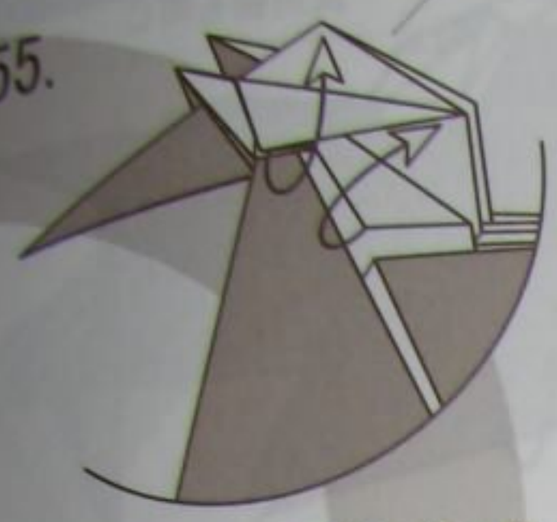
54.



ポケットの奥の引
っかかるところか
ら折り返す

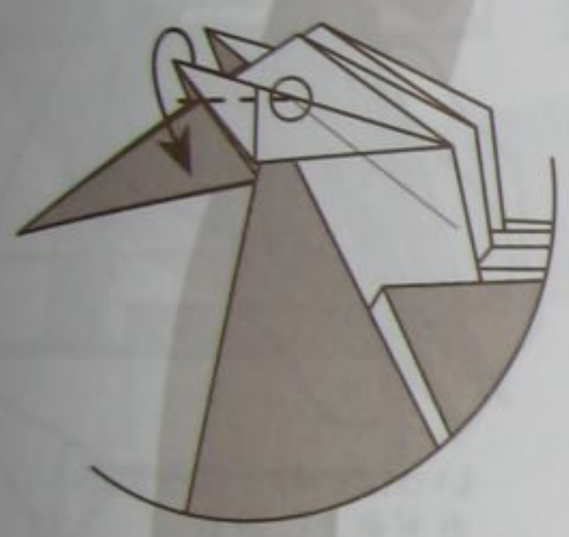
53-54

55.

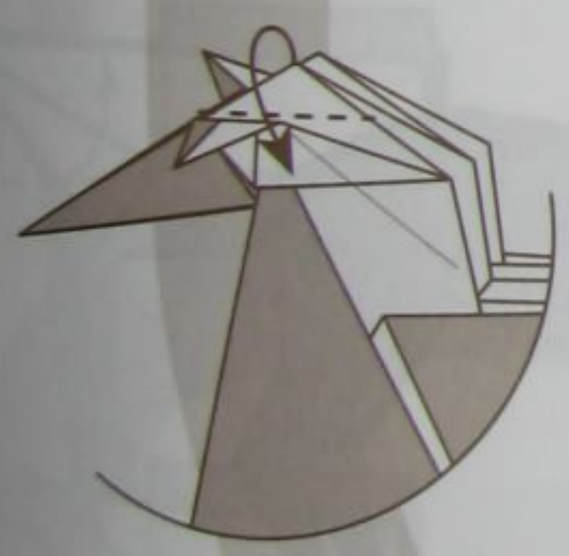


反対側も[53～54]と同様に折り筋を付ける
しっかりと折筋を付けたら[53]の状態に戻す

56. ○印（縁と折り筋の交点）を基点に耳を下へ折る

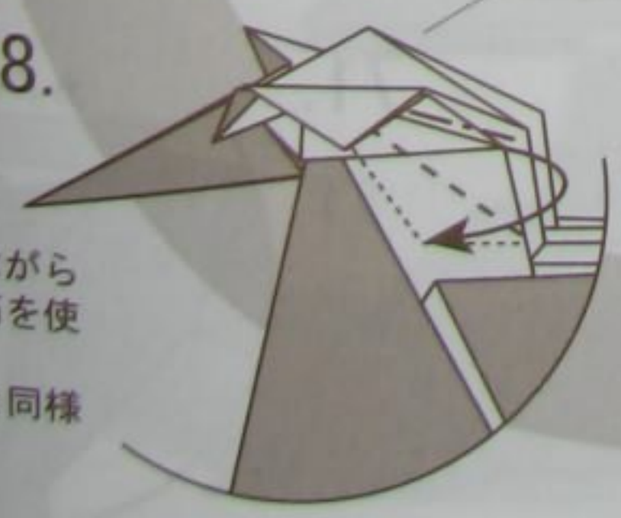


57. 手前と同じ位置で折る



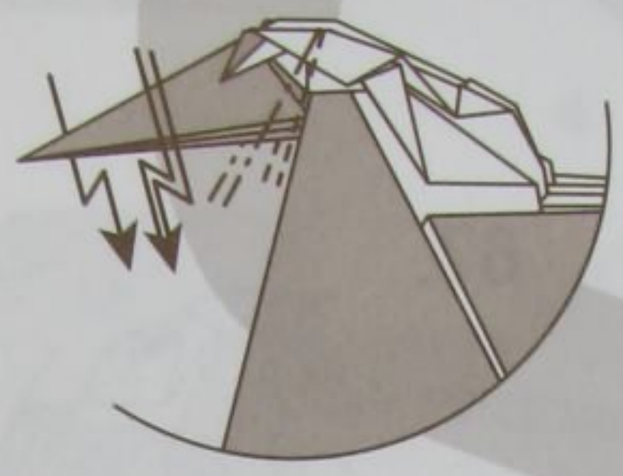
56-58

58.



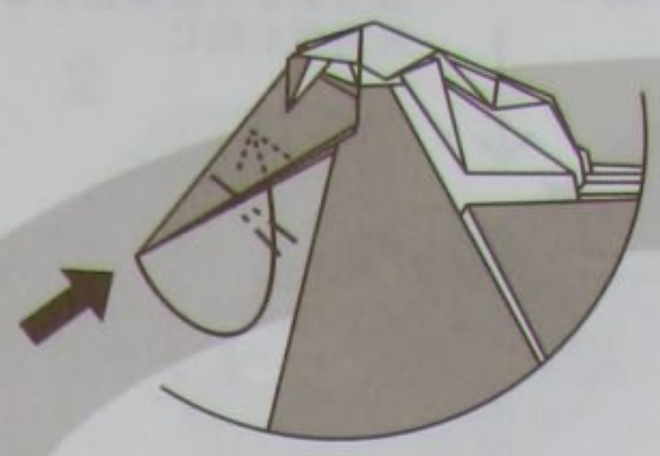
上の方を段折りしながら[54]で付けた折り筋を使って折り返す
反対側も[56～58]と同様に折る

62.

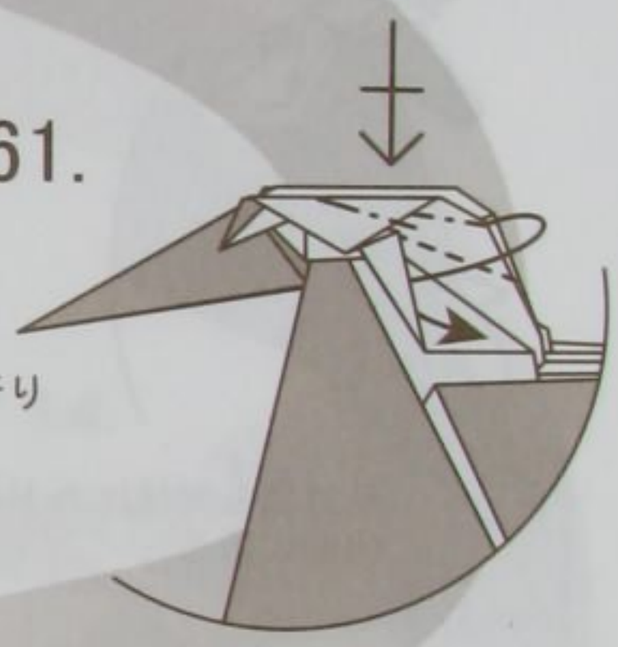


紙の重なりをそのまま保ちながら、頭の部分を段折りで下に向ける
（頭の部分が3層になっているので、1枚と2枚に振り分ける）

63. 鼻先を中に入れる



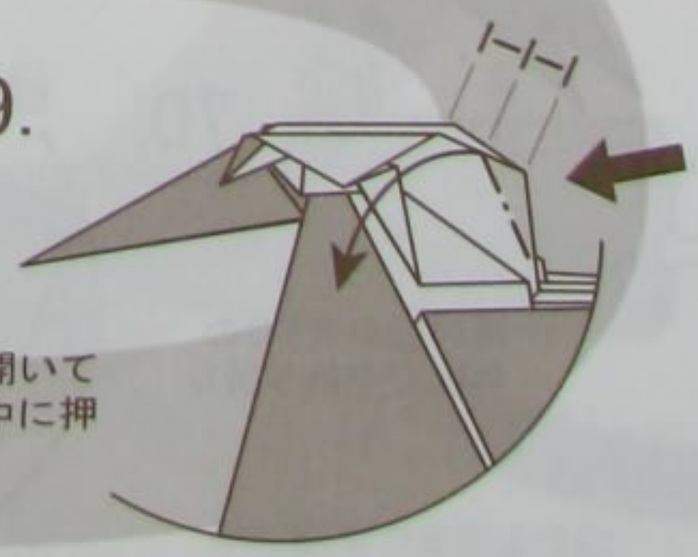
61.



タテガミの部分を段折りのような中割り折り
反対側も同じ

60. 途中図

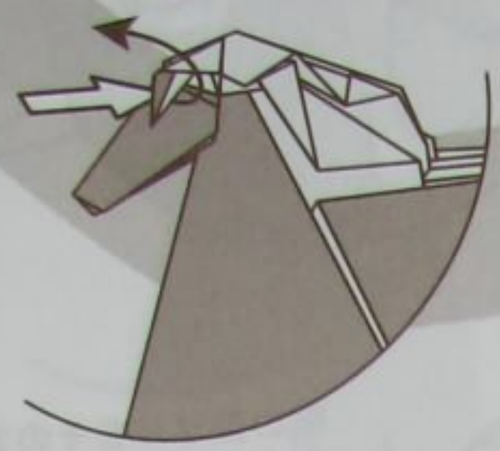
59.



中央のカドを開いてつぶす感じで中に押し込む

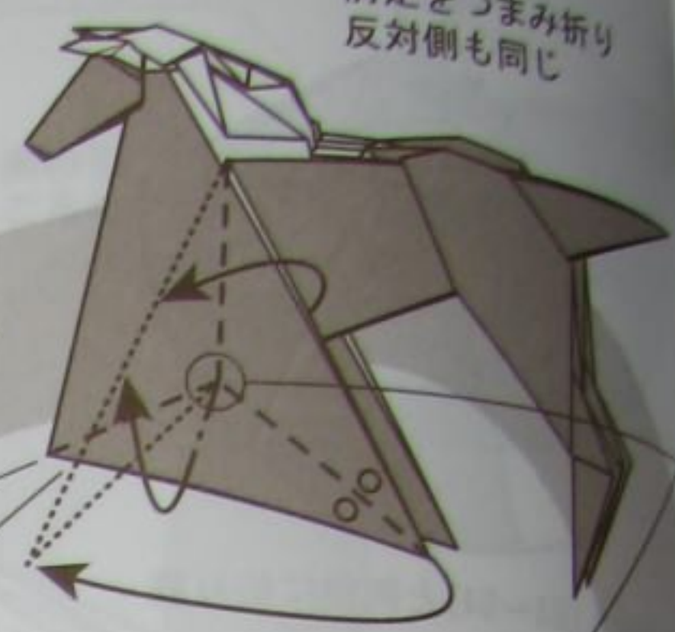
64.

耳を立てながら円錐形に
膨らませて立体化する
反対側も同じ



65.

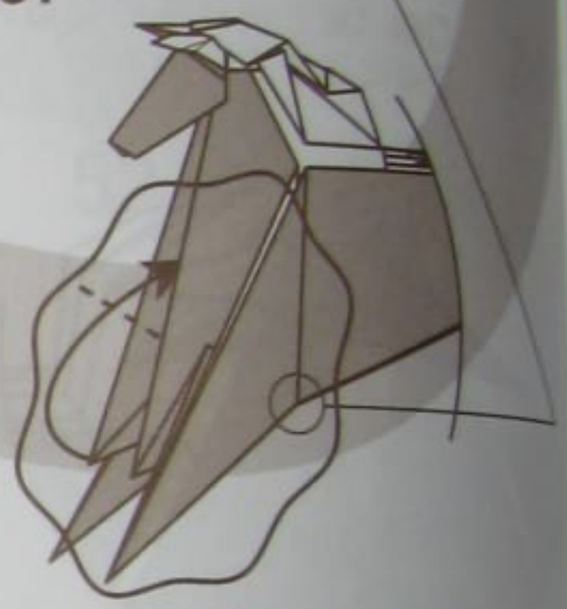
前足をつまみ折り
反対側も同じ



ここは少し隙間
が空く

後ろにある胴体の縁と
一致する位置で折る

66.

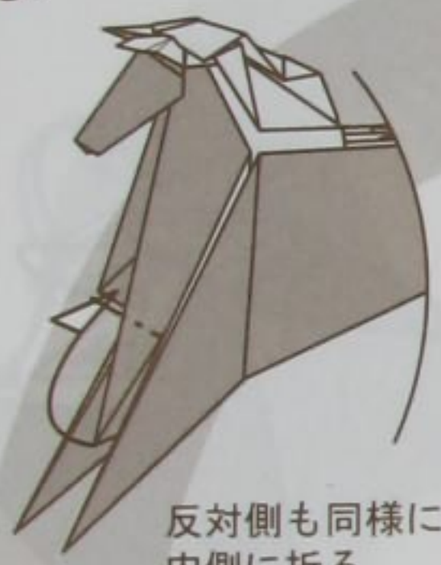


いっぱいのところまで
カドを上に折る
（次の図を参照）

67.

前足の部分を透視

68.

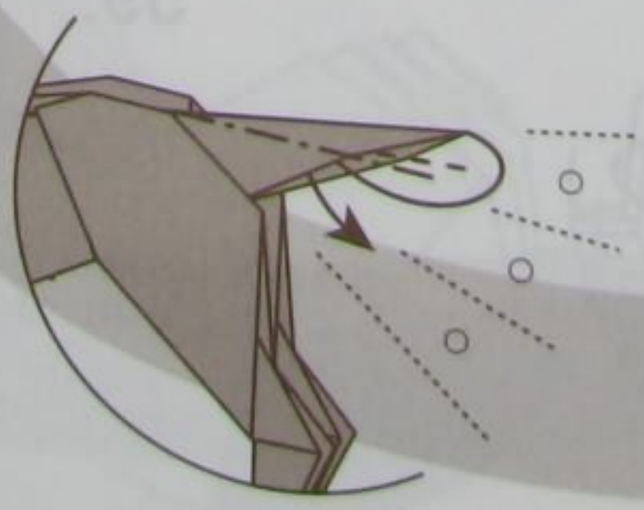


反対側も同様にカドを
内側に折る

69.

[41]で折ってできた内側に
あるカドを隙間に差し込ん
で開き止めにする

70.

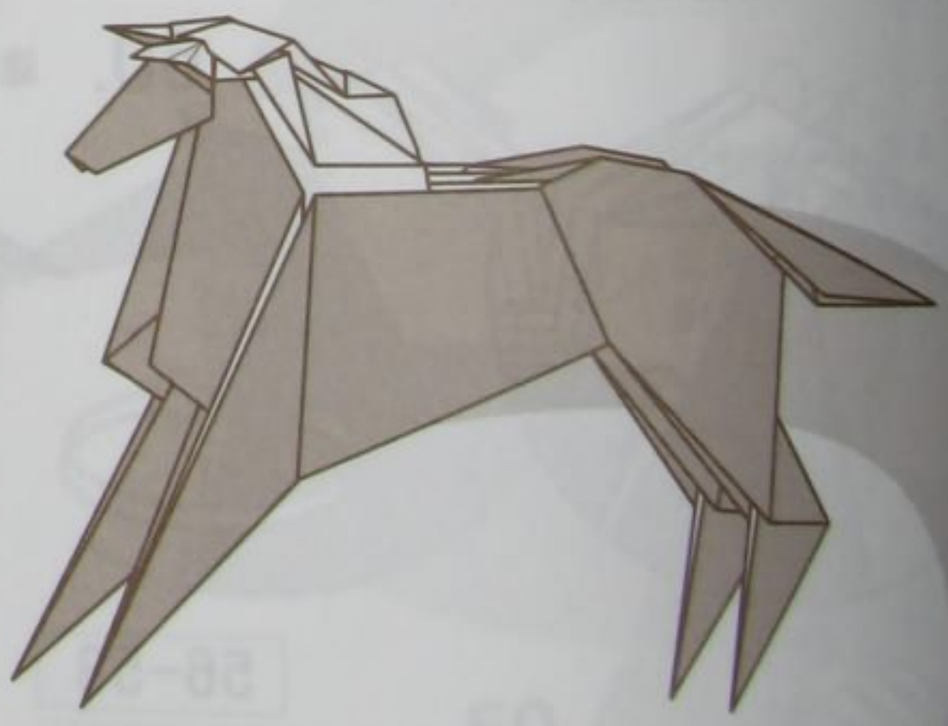


尾の部分を1/3の
角度で中割り折り

71.

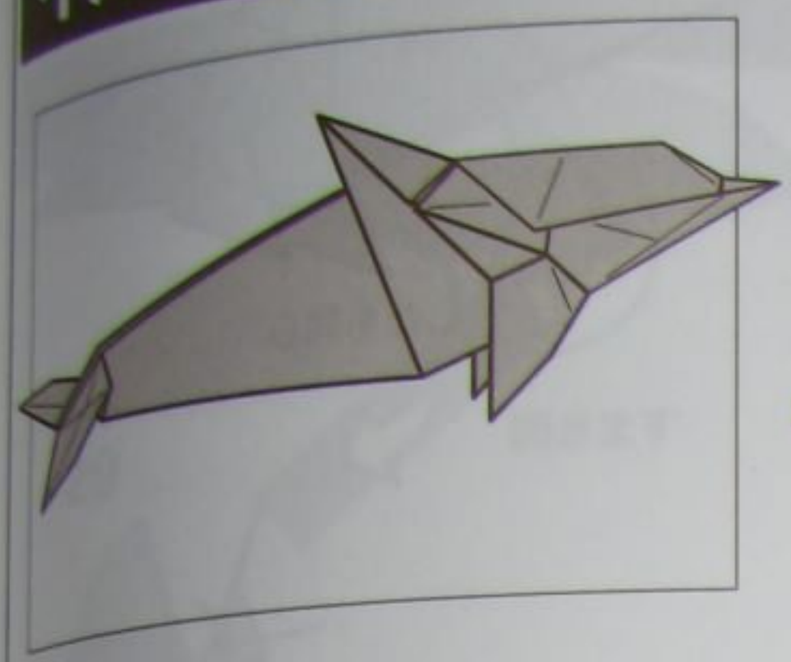
カドを両側へ折り返す

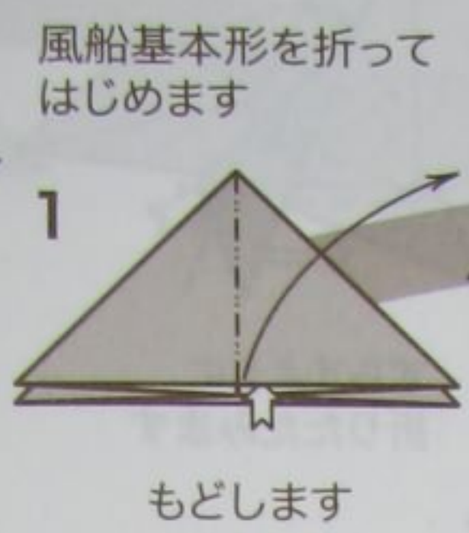
72. 完成

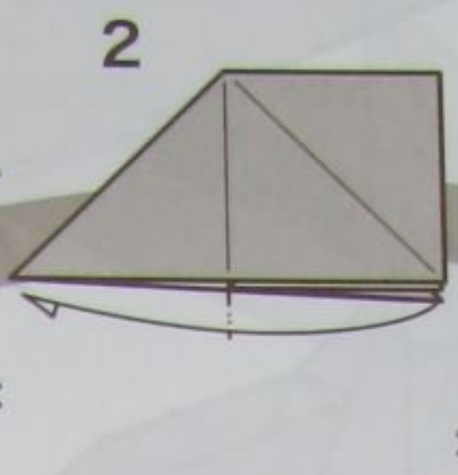


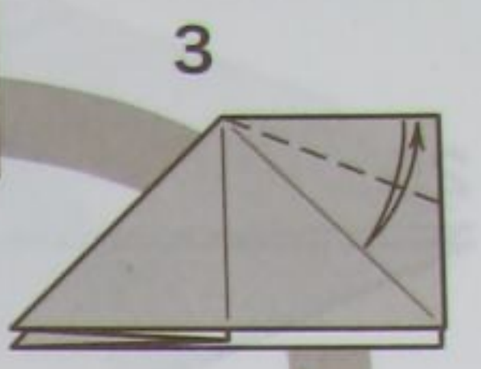
# イルカ

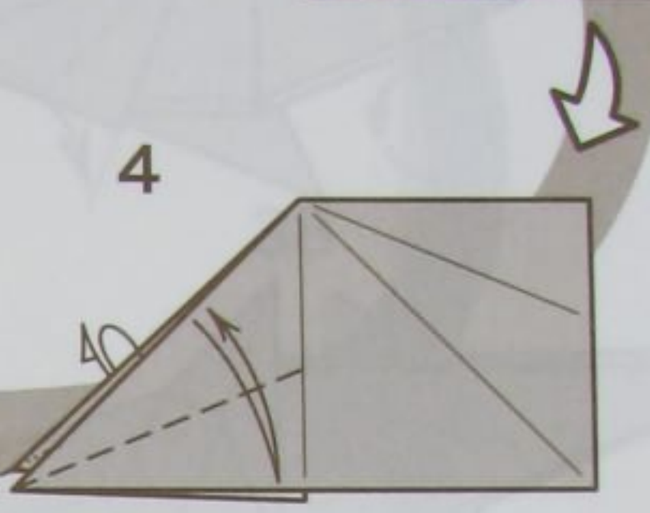
創作／青木　良

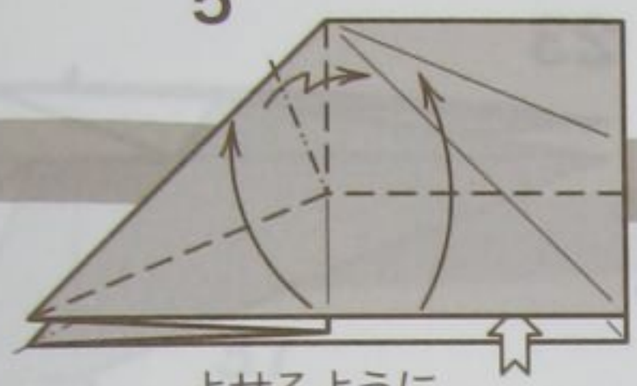


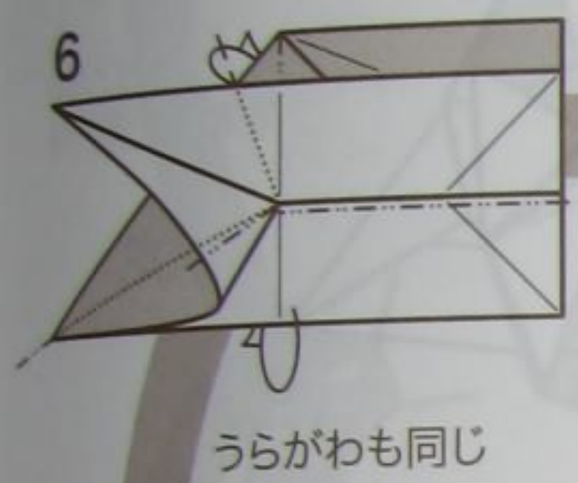

風船基本形を折って
はじめます
1
もどします

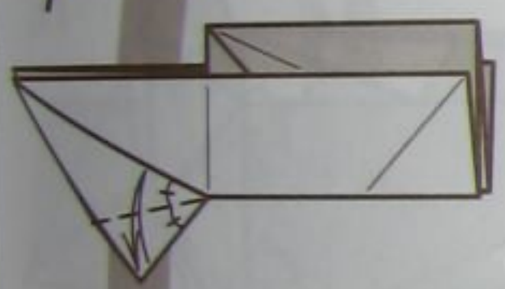

2

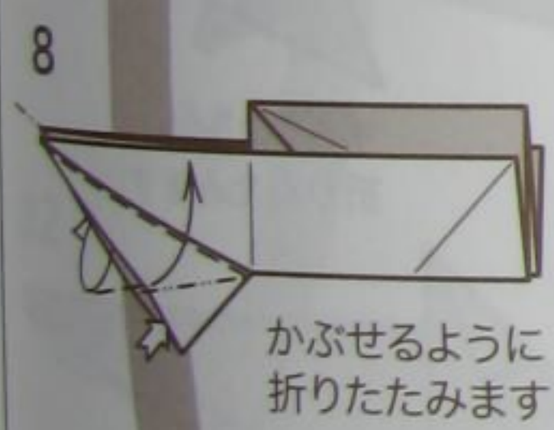

3

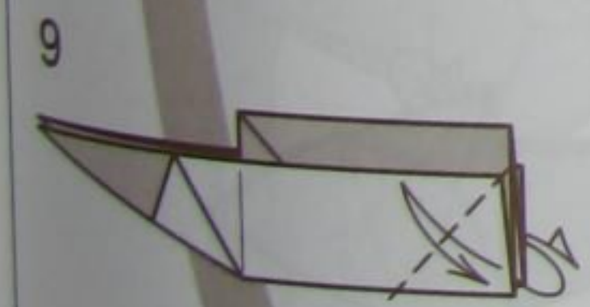

4

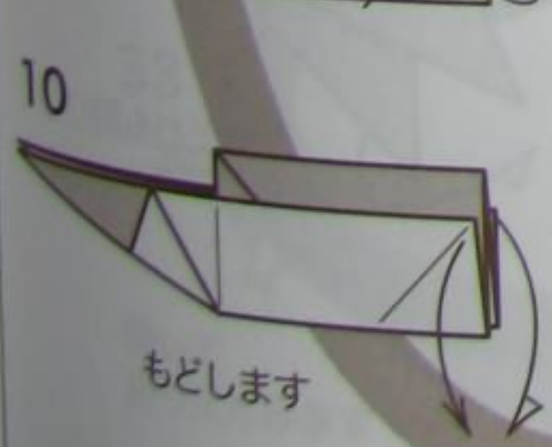

5
よせるように
折りたたみます

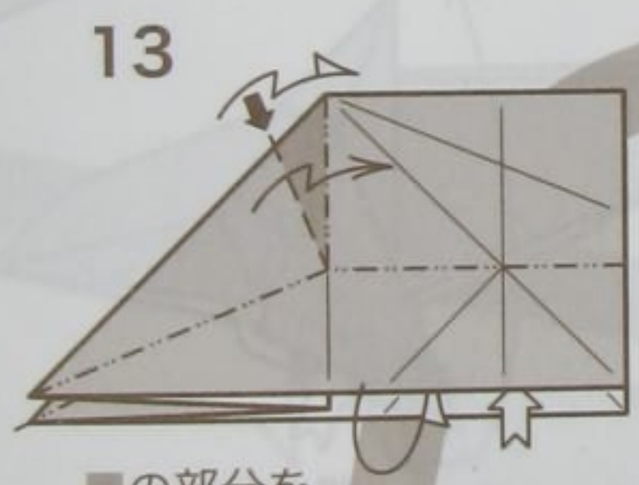

6
うらがわも同じ

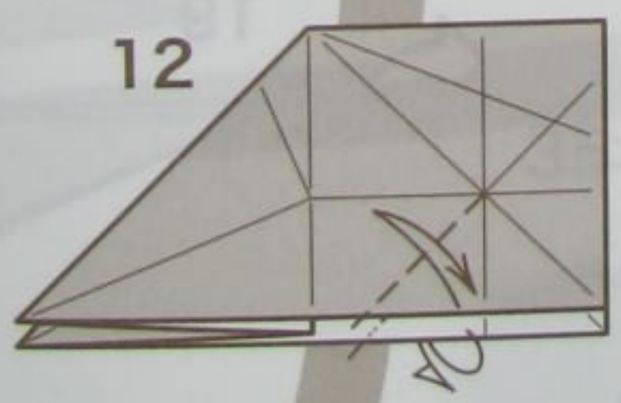

7

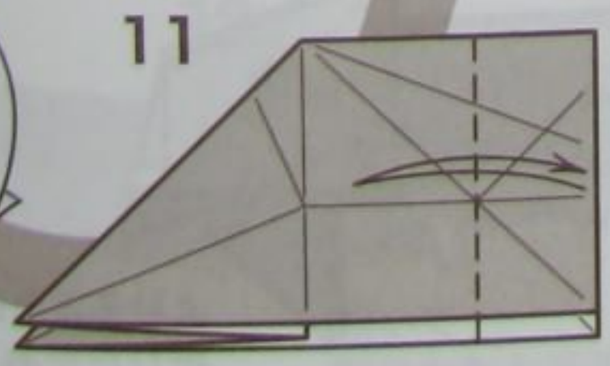

8
かぶせるように
折りたたみます


9


10
もどします


13
■の部分を
中に押し込むように
折りたたみます


12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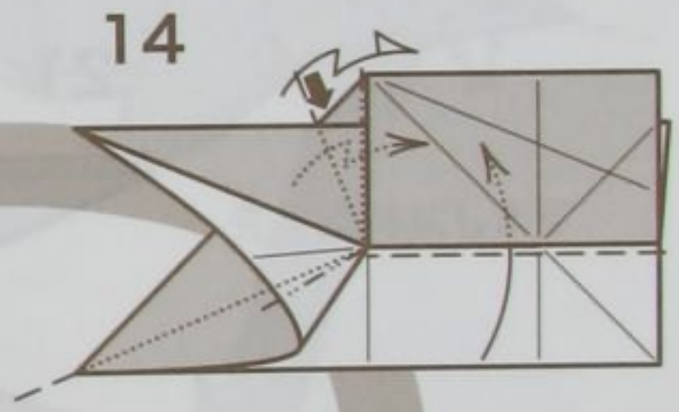
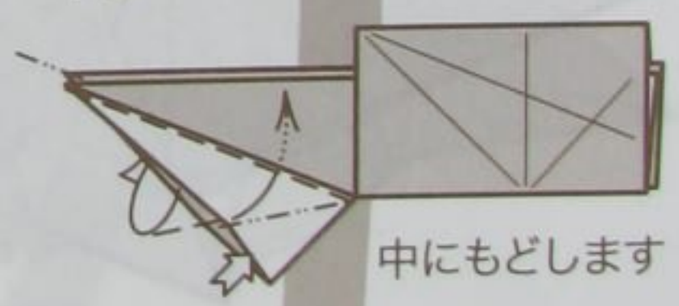
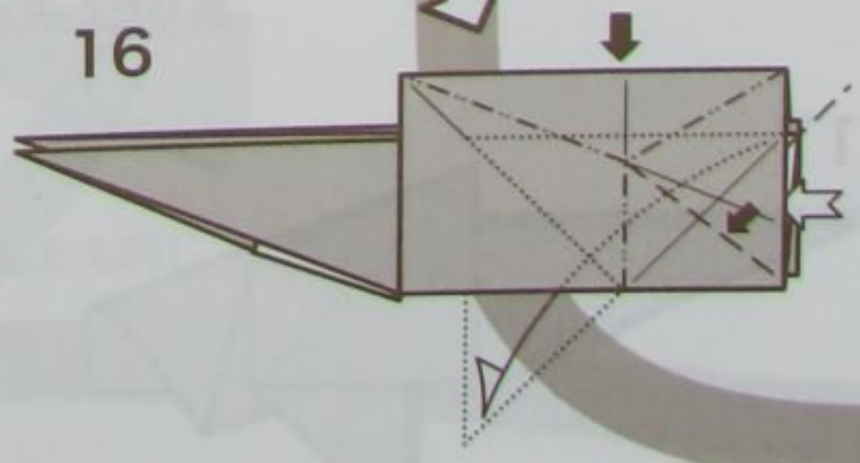
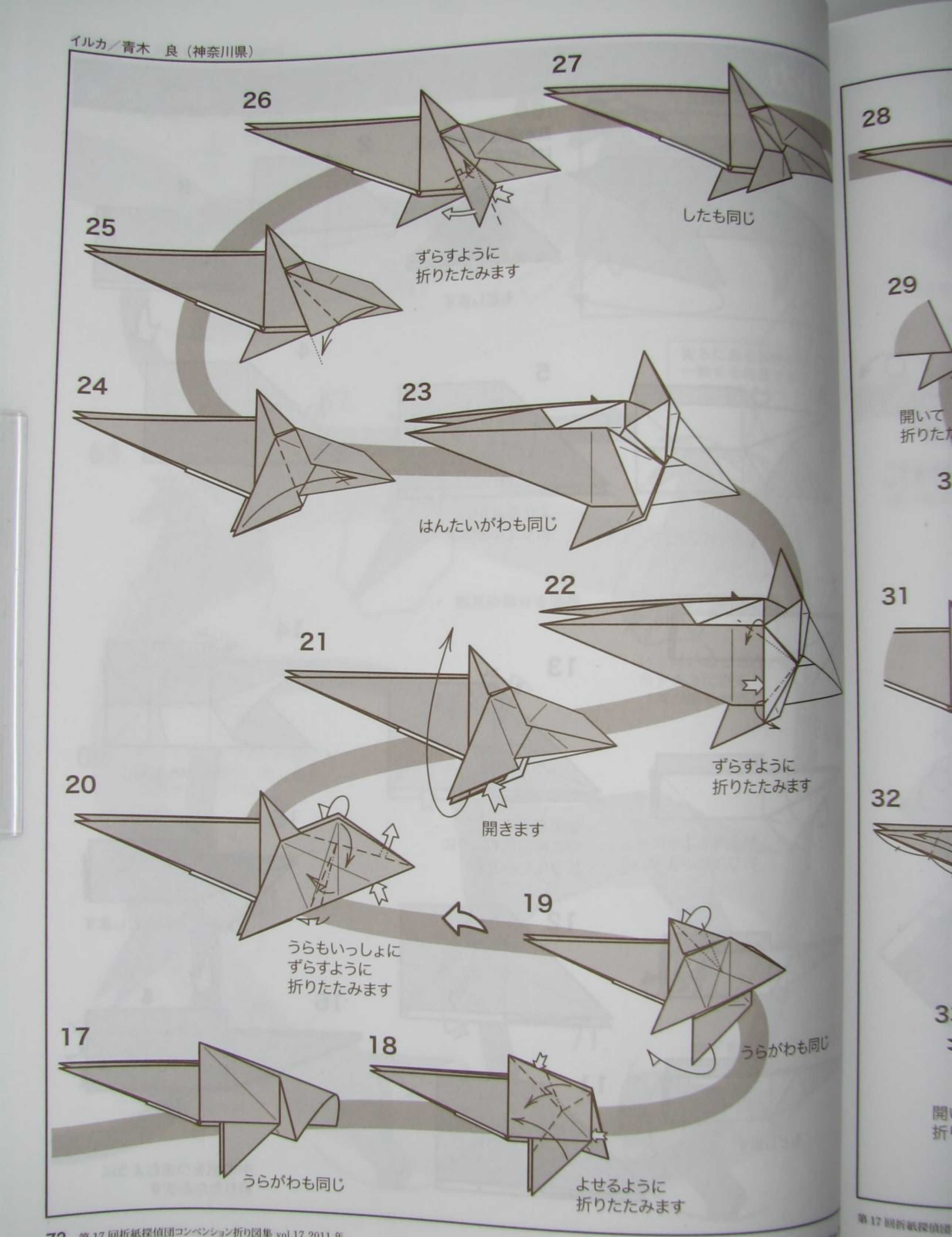
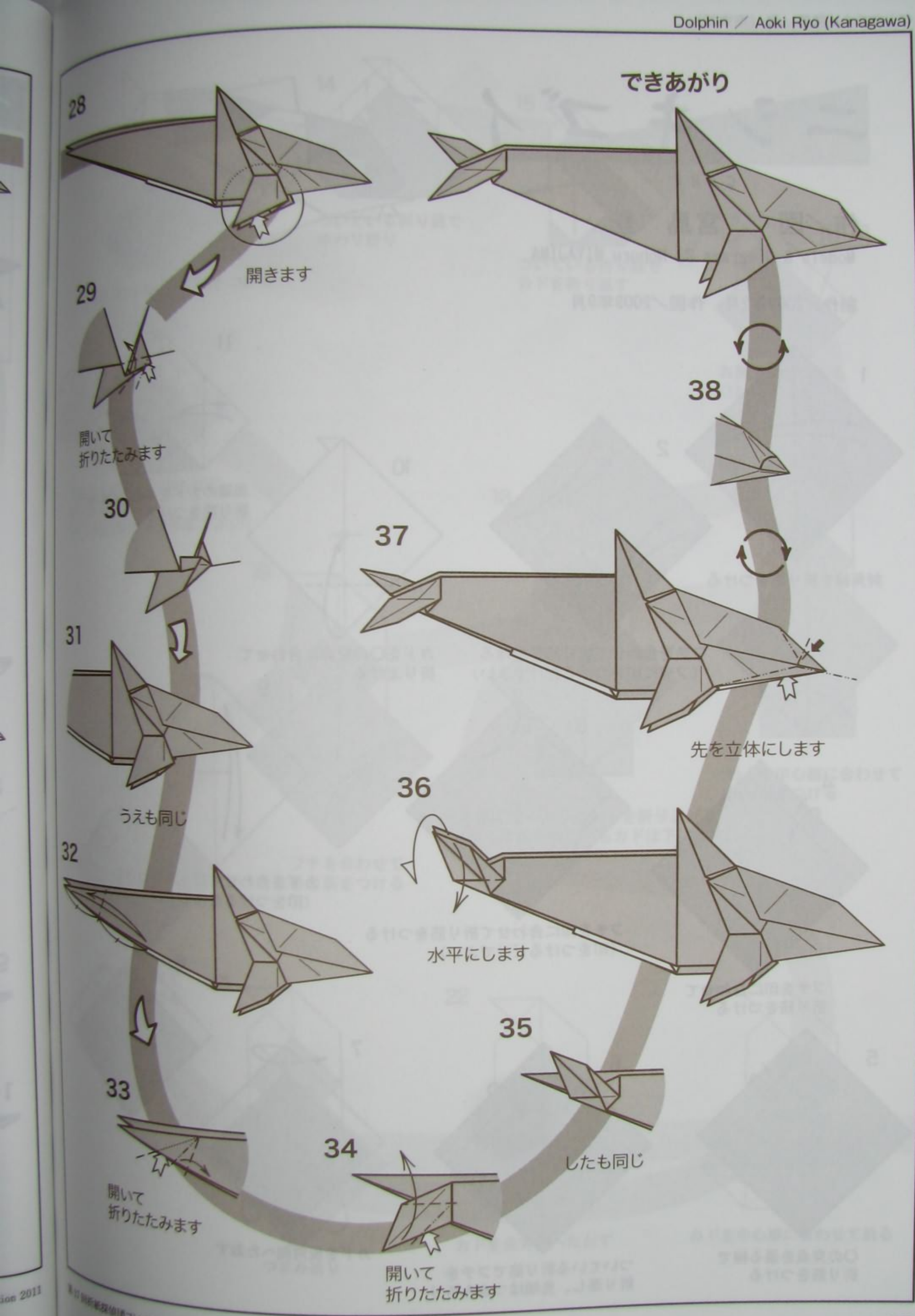

14
うらがわも同じ


15
中にもどします

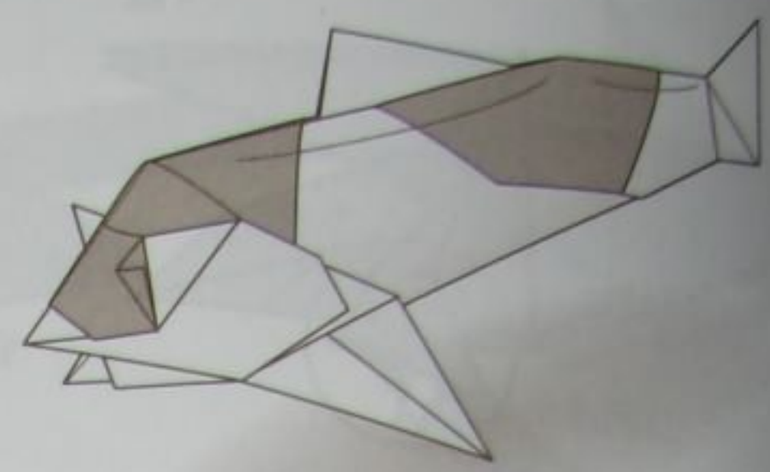

16
中の紙をつまむように
折りたたみます


27
したも同じ
26
25
ずらすように
折りたたみます
24
23
はんたいがわも同じ
22
ずらすように
折りたたみます
21
開きます
20
うらもいっしょに
ずらすように
折りたたみます
19
うらがわも同じ
17
うらがわも同じ
18
よせるように
折りたたみます


できあがり
28
開きます
29
開いて
折りたたみます
30
31
うえも同じ
32
33
開いて
折りたたみます
34
開いて
折りたたみます
35
したも同じ
36
水平にします
37
先を立体にします
38

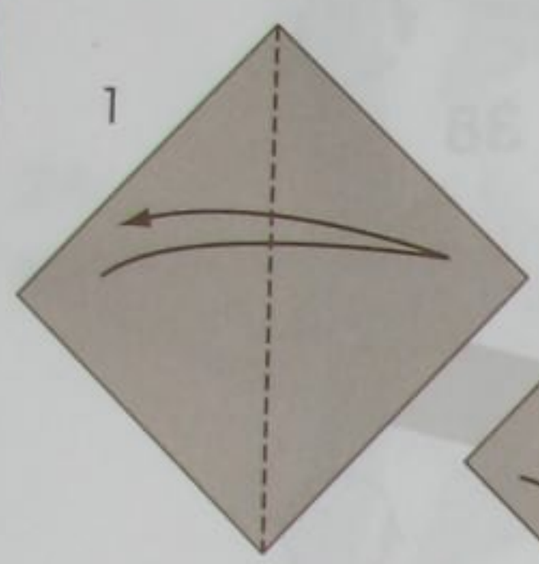
# ニシキゴイ

CARP

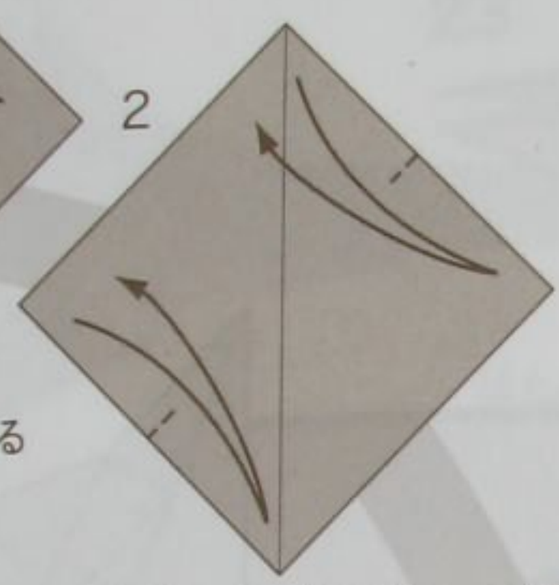


作／図　宮島　登
Models & Diagrams By Noboru MIYAJIMA

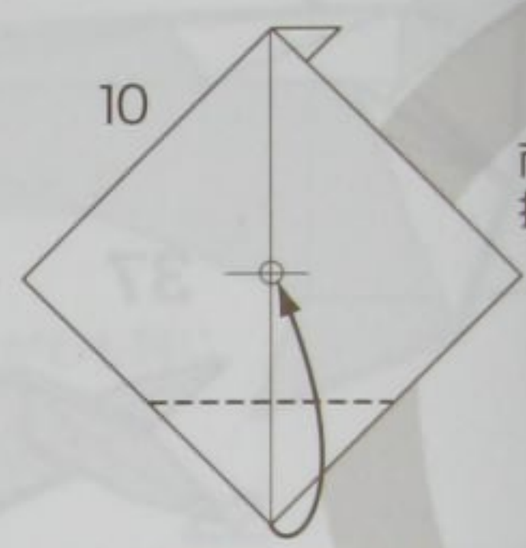
創作／2009年2月　作図／2009年9月



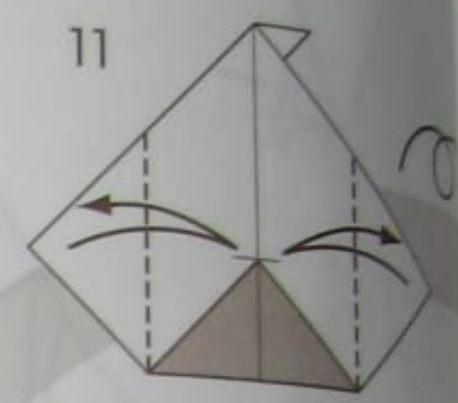

対角線で折り筋をつける



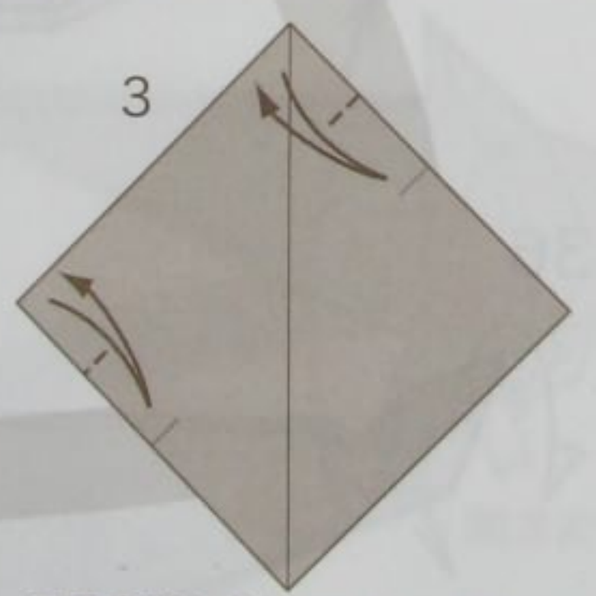

フチを合わせて折り筋をつける
（フチに印をつけるだけでよい）



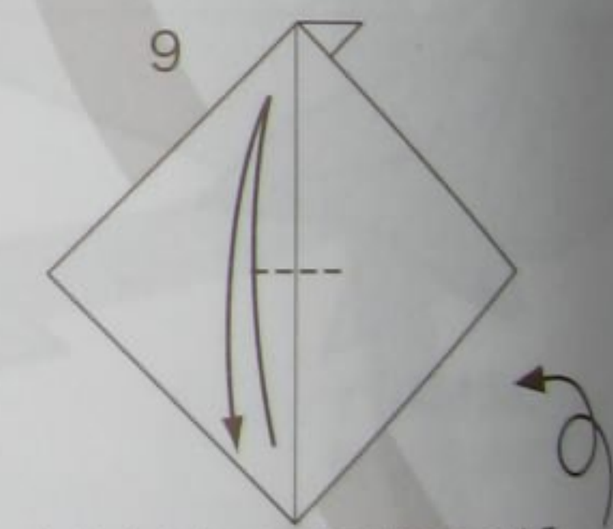

カドを○の交点に合わせて
折り上げる



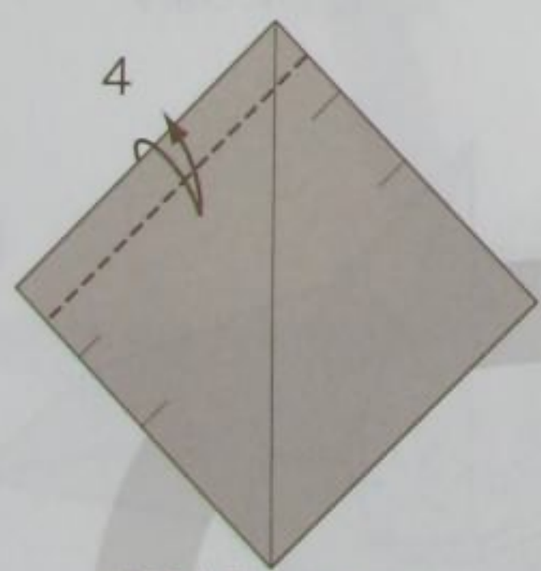

両端のカドを中心に合わせて
折り筋をつける



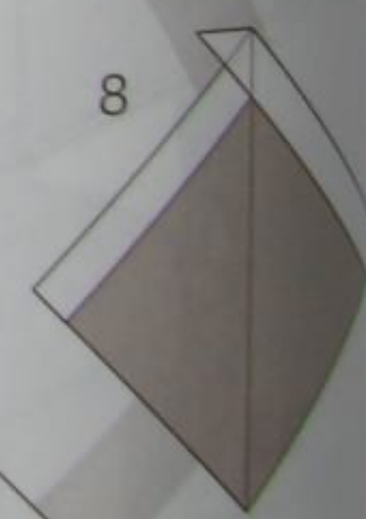

フチを印に合わせて折り筋をつける
（印をつけるだけでよい）

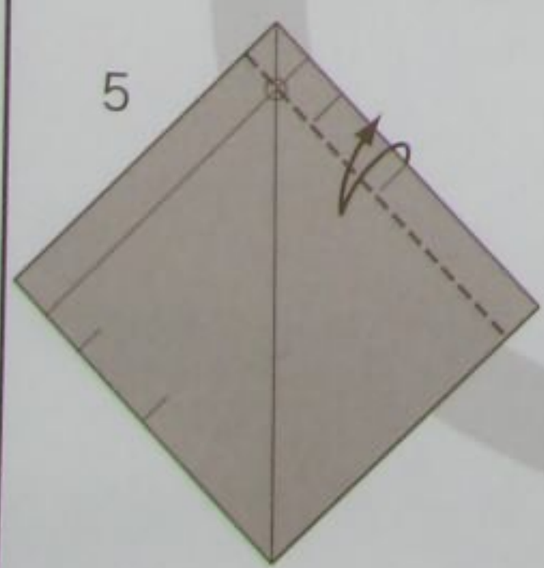



カドを合わせて折り筋をつける
（印をつけるだけでよい）

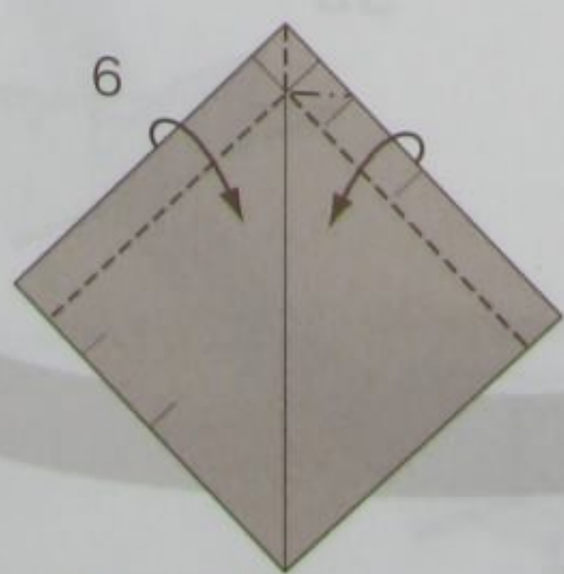



フチを印に合わせて
折り筋をつける

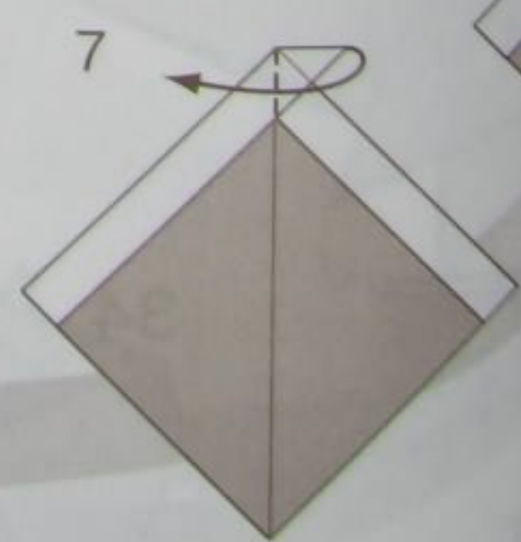


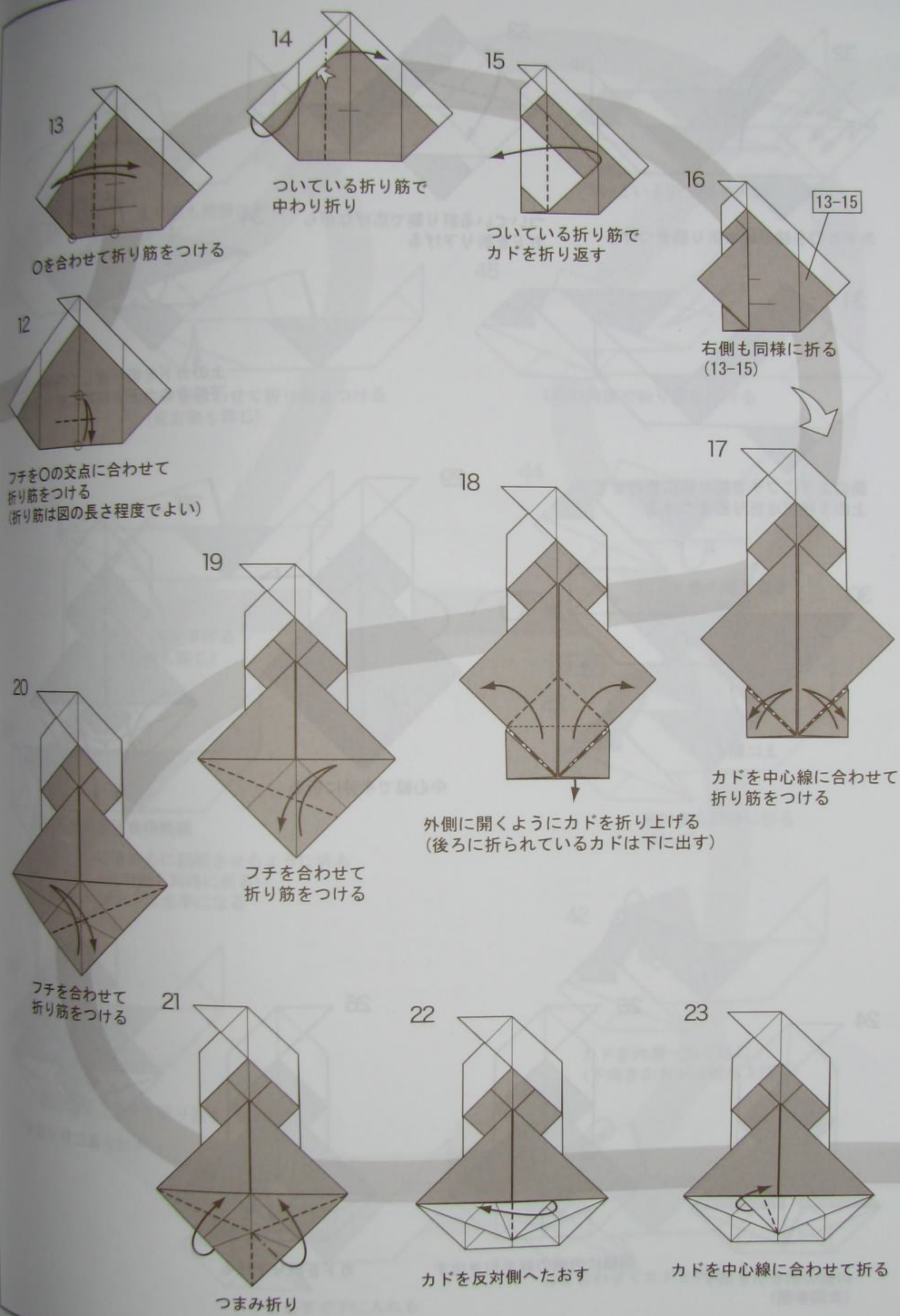

○の交点を通る線で
折り筋をつける

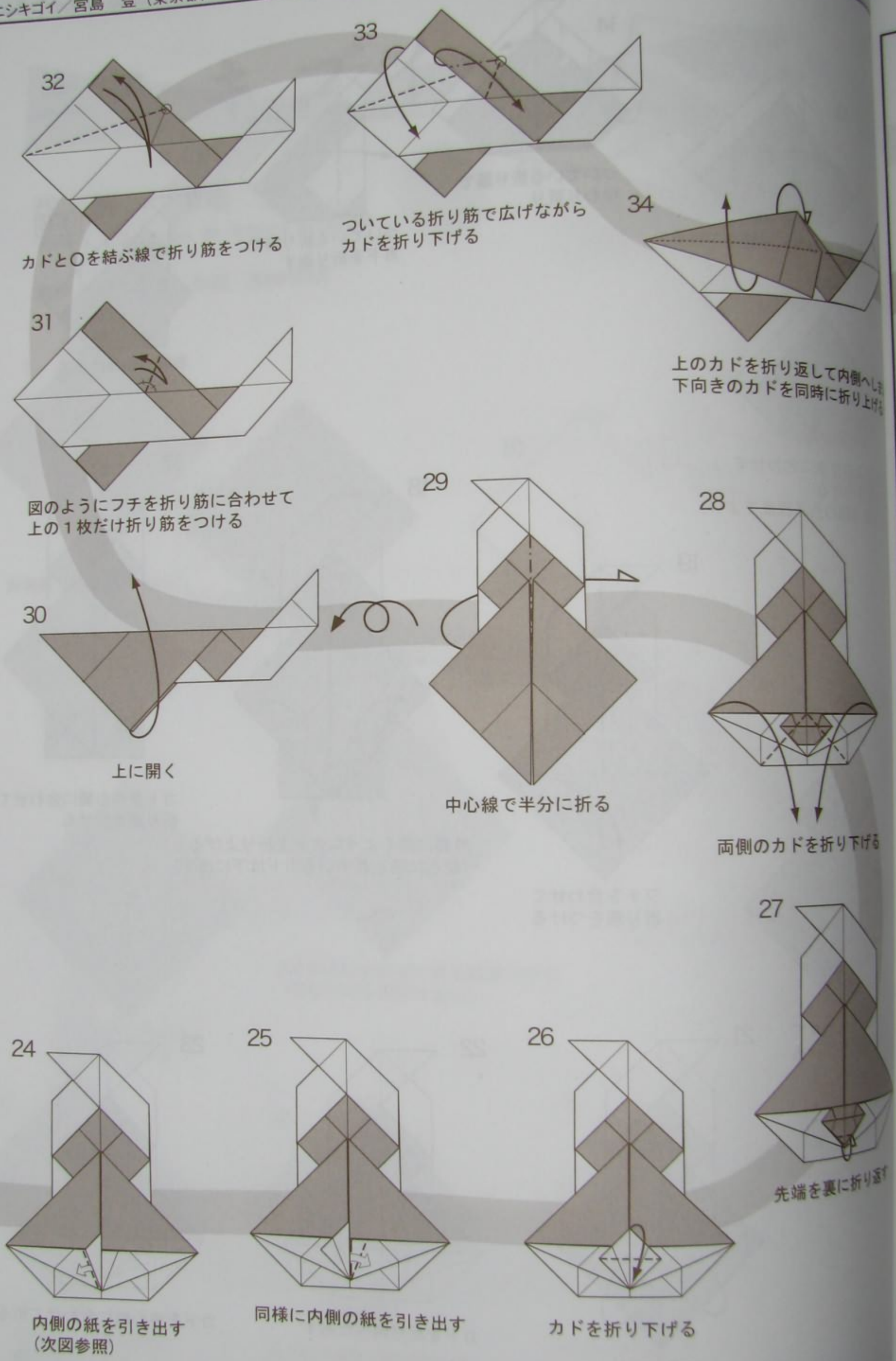


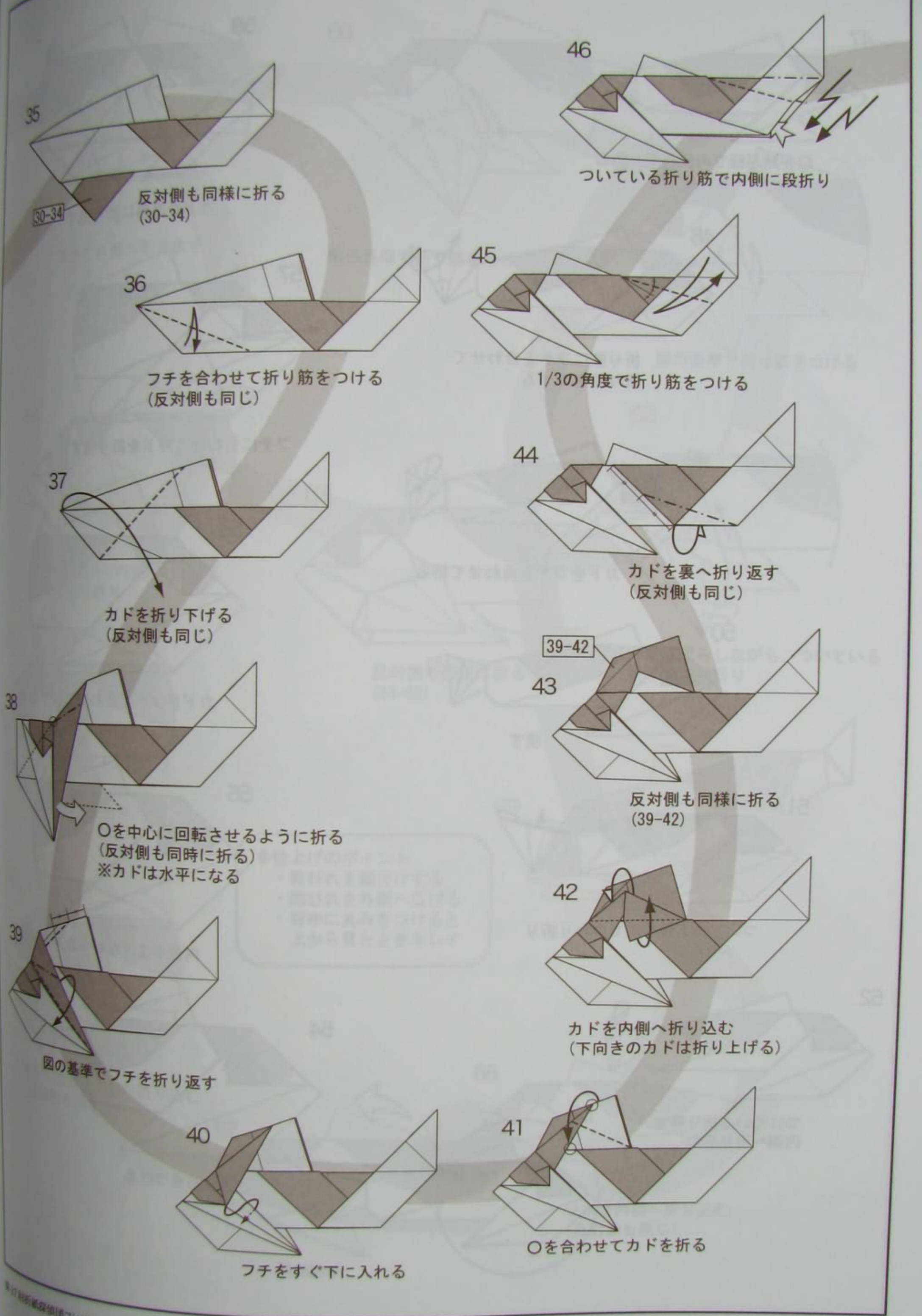

ついている折り筋でフチを
折り返し、先端はつまみ折り




カドを反対側へたおす

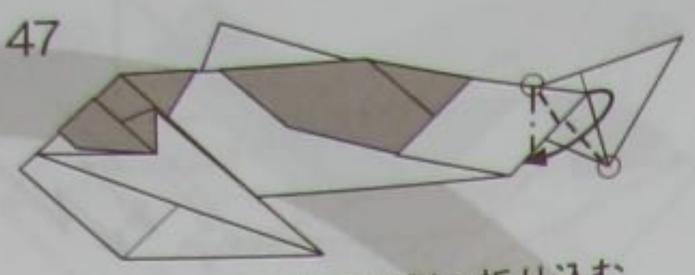

12
フチを○の交点に合わせて
折り筋をつける
(折り筋は図の長さ程度でよい)
13
○を合わせて折り筋をつける
14
ついている折り筋で
中わり折り
15
ついている折り筋で
カドを折り返す
16
13-15
右側も同様に折る
(13-15)
17
カドを中心線に合わせて
折り筋をつける
18
外側に開くようにカドを折り上げる
(後ろに折られているカドは下に出す)
19
フチを合わせて
折り筋をつける
20
フチを合わせて
折り筋をつける
21
つまみ折り
22
カドを反対側へたおす
23
カドを中心線に合わせて折る


32
カドと○を結ぶ線で折り筋をつける
33
ついている折り筋で広げながら
カドを折り下げる
34
上のカドを折り返して内側へし
下向きのカドを同時に折り上げ
31
図のようにフチを折り筋に合わせて
上の１枚だけ折り筋をつける
29
28
30
上に開く
中心線で半分に折る
両側のカドを折り下げる
27
24
25
26
先端を裏に折り返す
内側の紙を引き出す
（次図参照）
同様に内側の紙を引き出す
カドを折り下げる


35
30-34
反対側も同様に折る
(30-34)
46
ついている折り筋で内側に段折り
36
フチを合わせて折り筋をつける
(反対側も同じ)
45
1/3の角度で折り筋をつける
37
カドを折り下げる
(反対側も同じ)
44
カドを裏へ折り返す
(反対側も同じ)
38
○を中心に回転させるように折る
(反対側も同時に折る)
※カドは水平になる
39-42
43
反対側も同様に折る
(39-42)
39
図の基準でフチを折り返す
42
カドを内側へ折り込む
(下向きのカドは折り上げる)
40
フチをすぐ下に入れる
41
○を合わせてカドを折る

ニシキゴイ／宮島　登（東京都）

47

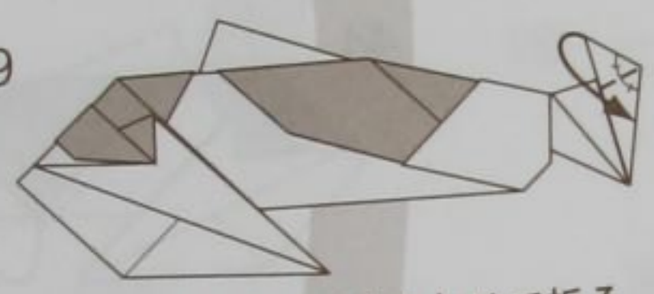


○を結ぶ線で内側へ折り込む

48

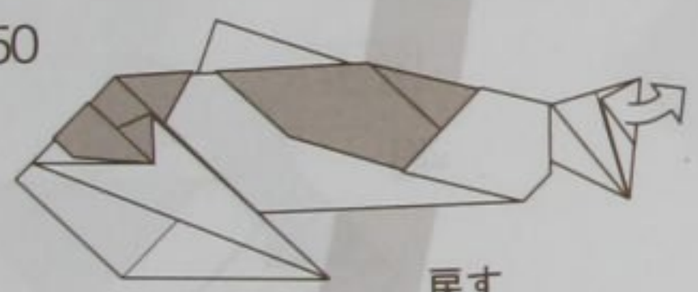
折り筋にフチを合わせて
折り筋をつける

49



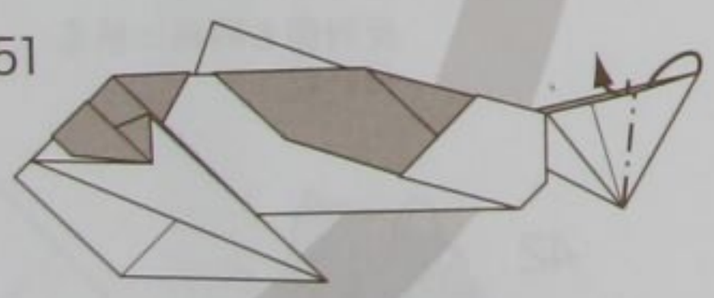
カドをフチを合わせて折る

50



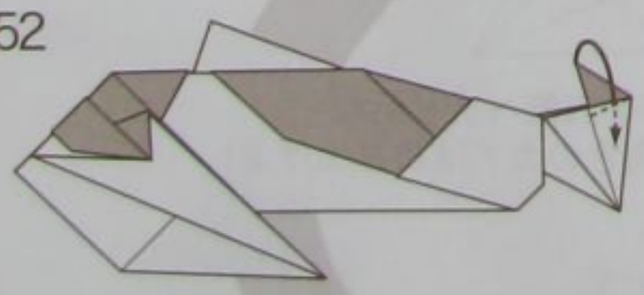
戻す

51



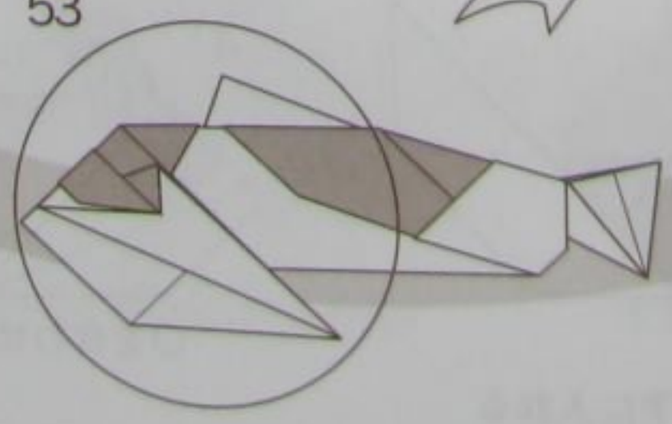
ついている折り筋で中わり折り

52

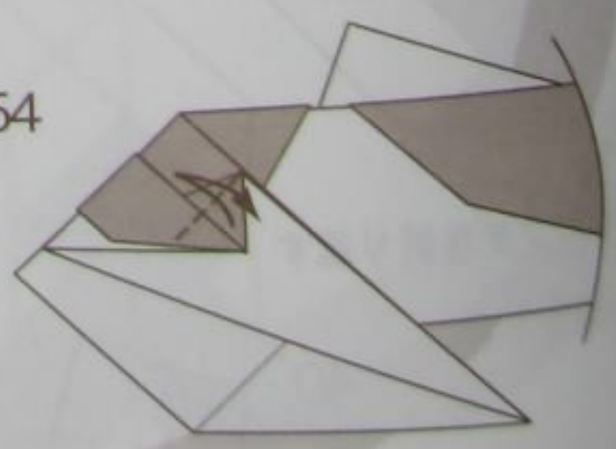


ついている折り筋で
内側へ折り込む

53

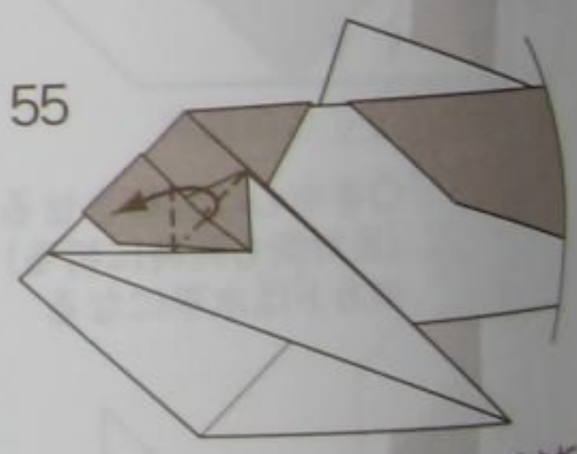


54



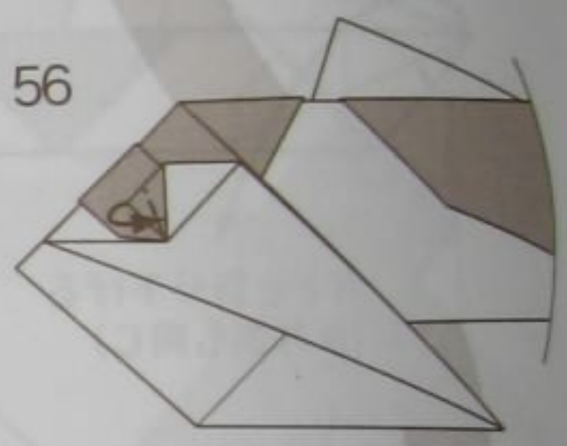
折り筋をつける

55



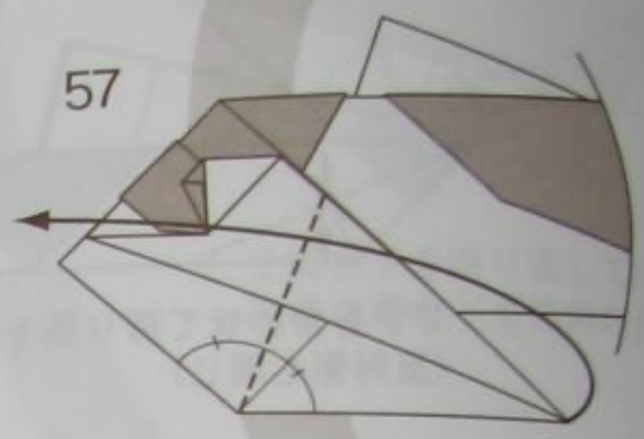
内側を広げながらカドを折る

56



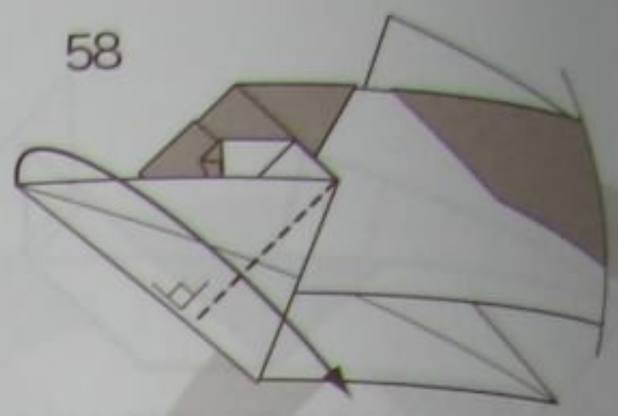
カドをフチに合わせて折り返す

57



フチに合わせてカドを折り返す

58



カドを直角に折り返す

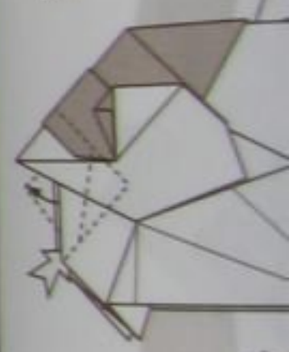
59

フチをケ

64

図の
中わ

65

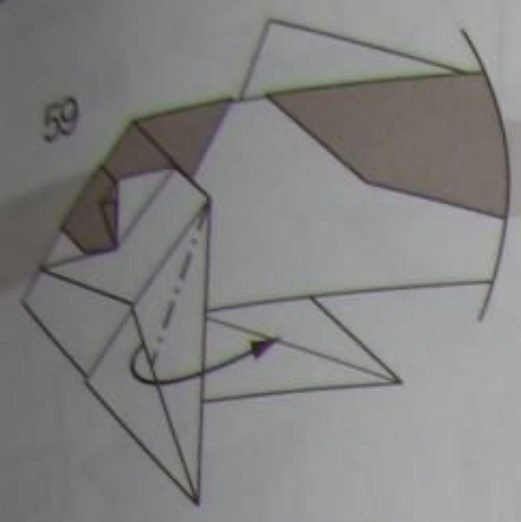


中

66

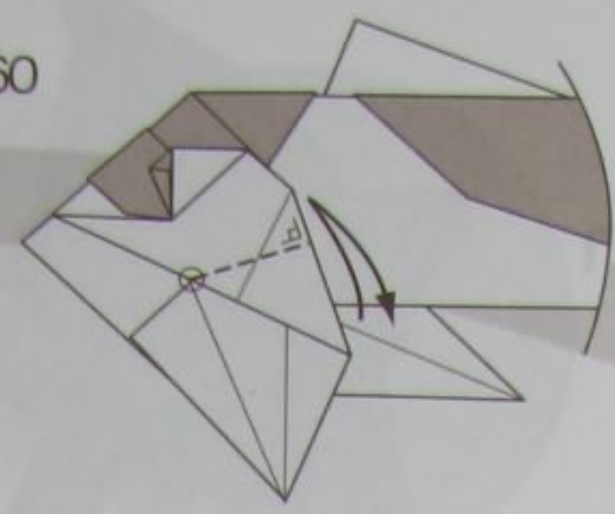
ずらしなか
（反対側も

59



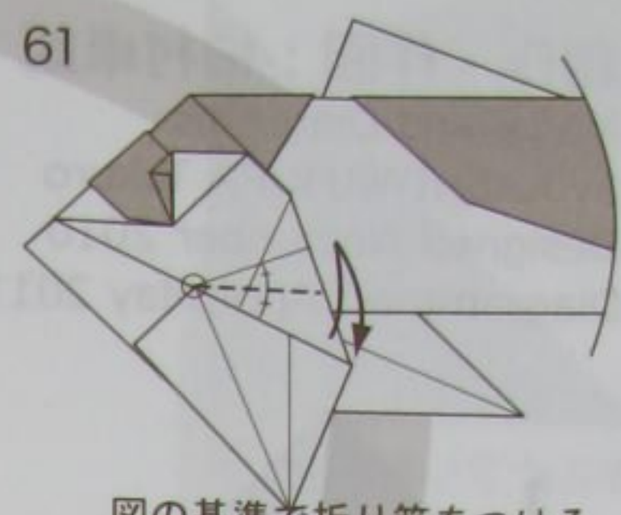
フチを外側へ引き出す

60



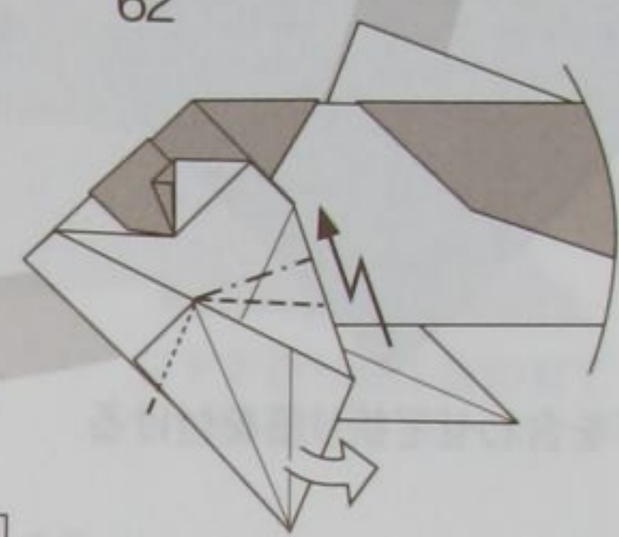
図の基準で折り筋をつける

61



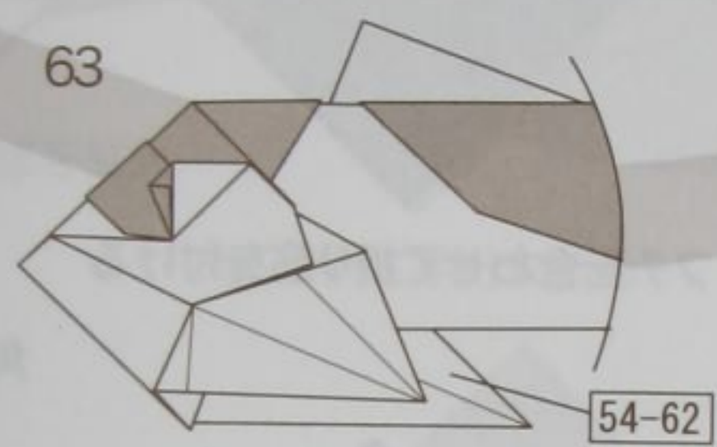
図の基準で折り筋をつける

62



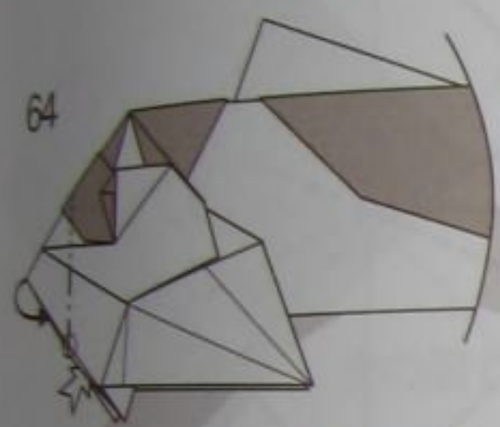
カドをずらしながら、ついている
折り筋で段折り

63



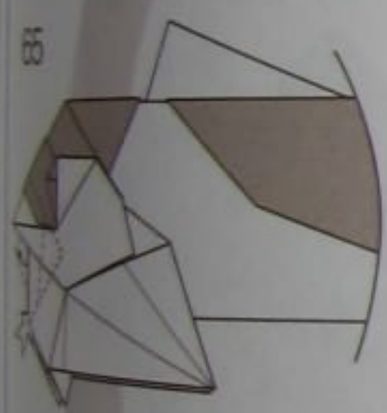

反対側も同様に折る
(54-62)

64



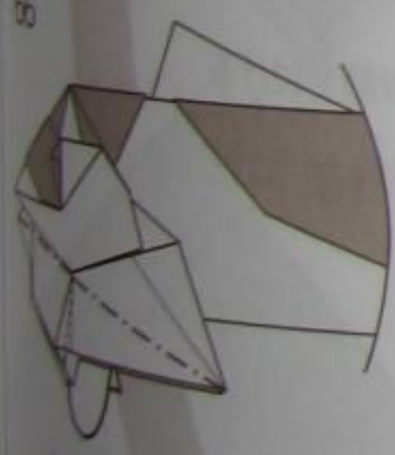
図のカド(内側)の位置で
中わり折り

65



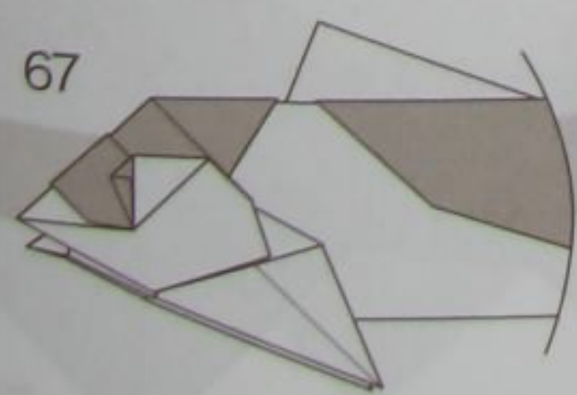
中わり折り

66



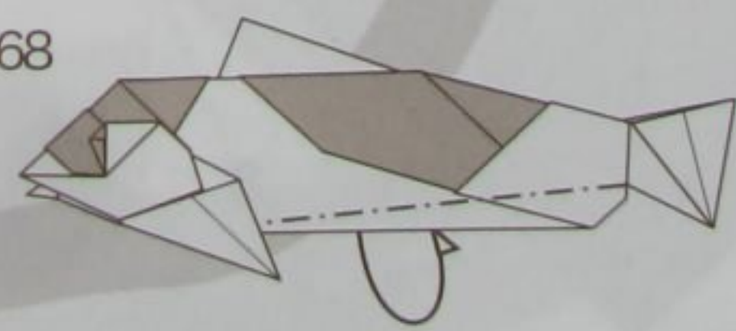
ずらしながら内側へ折り込む
(反対側も同じ)

67



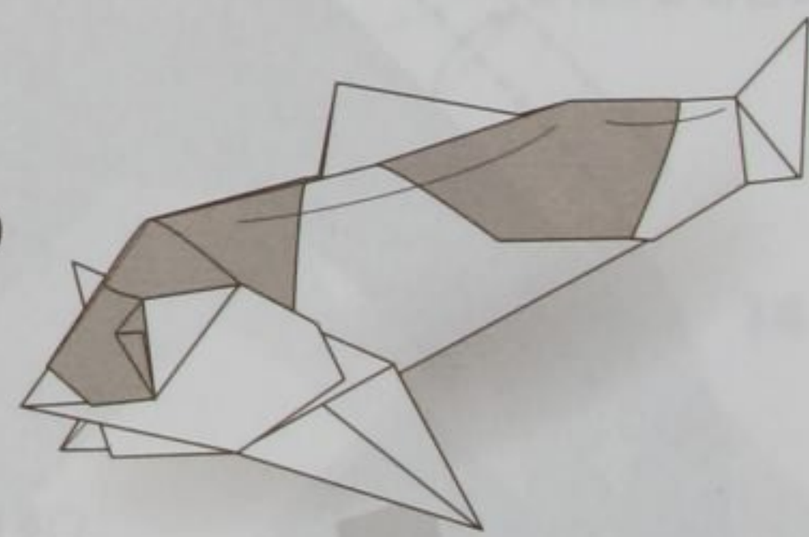
頭部完成

68



フチを内側へ折り込む
(反対側も同じ)

69

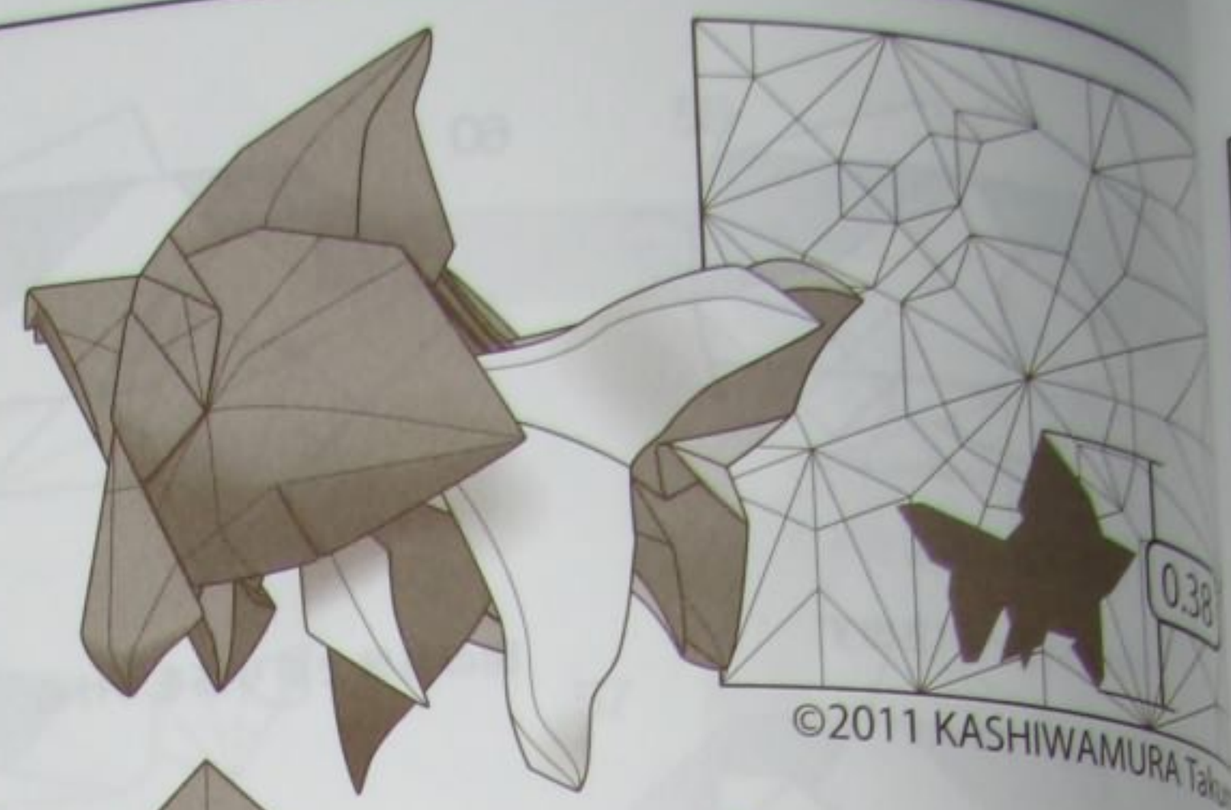


できあがり

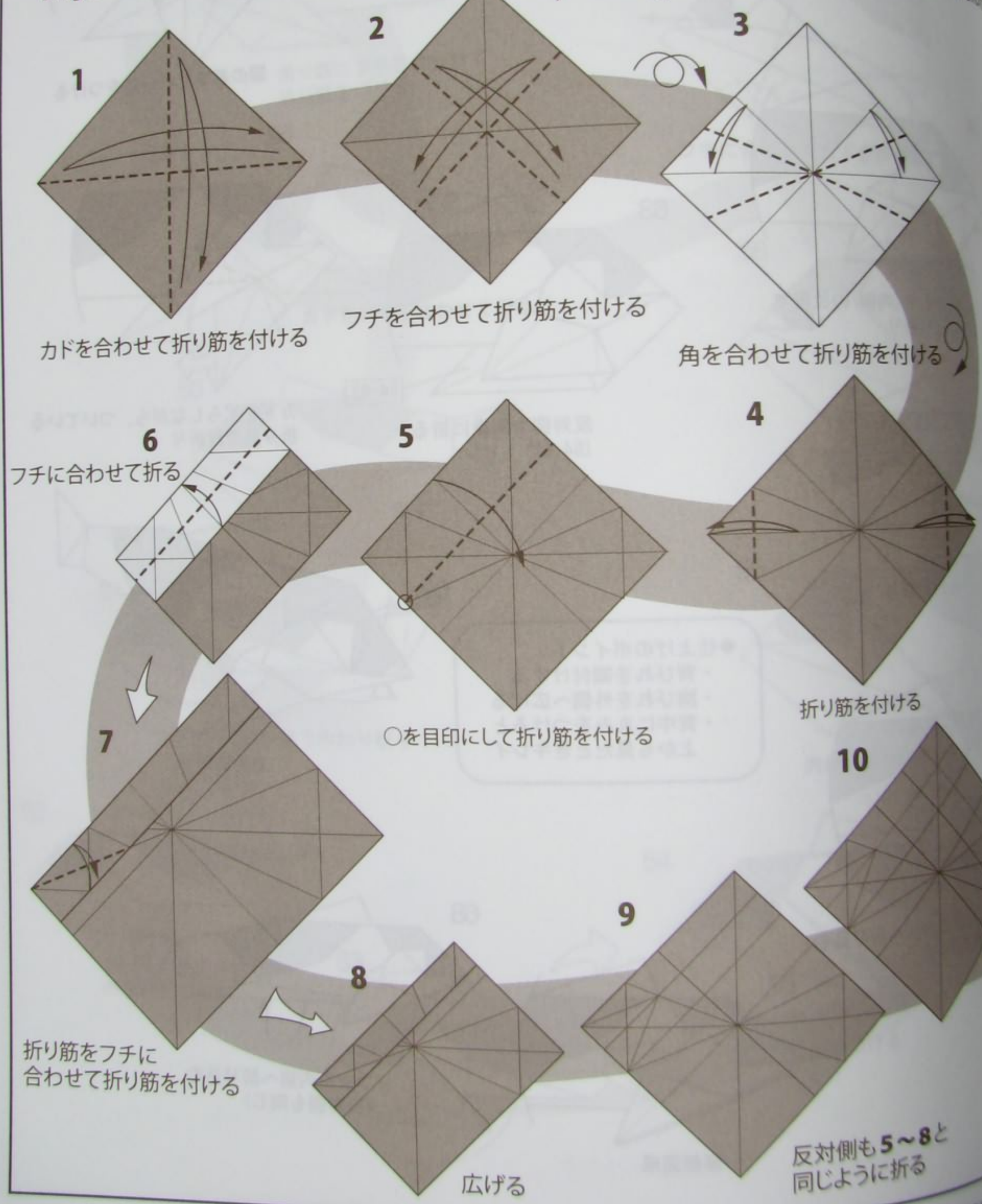
◆仕上げのポイント
・背びれを糊付けする
・胸びれを外側へ広げる
・背中に丸みをつけると
上から見たときキレイ

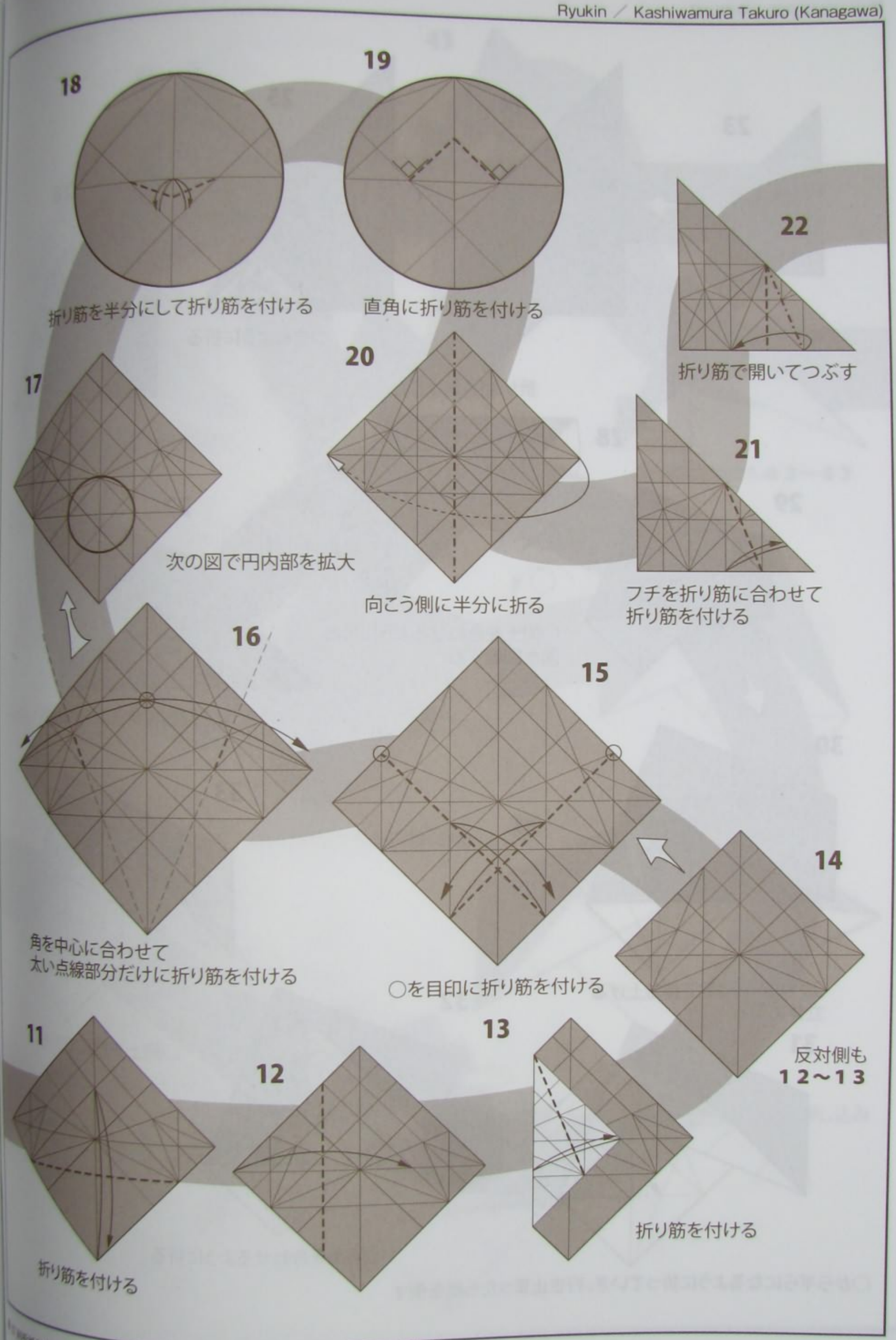
# 流金 Ryukin

創作・作図：柏村卓朗
Model and Diagrams
by KASHIWAMURA Takuro
Designed:November 2010
Diagrammed:April/May 2011

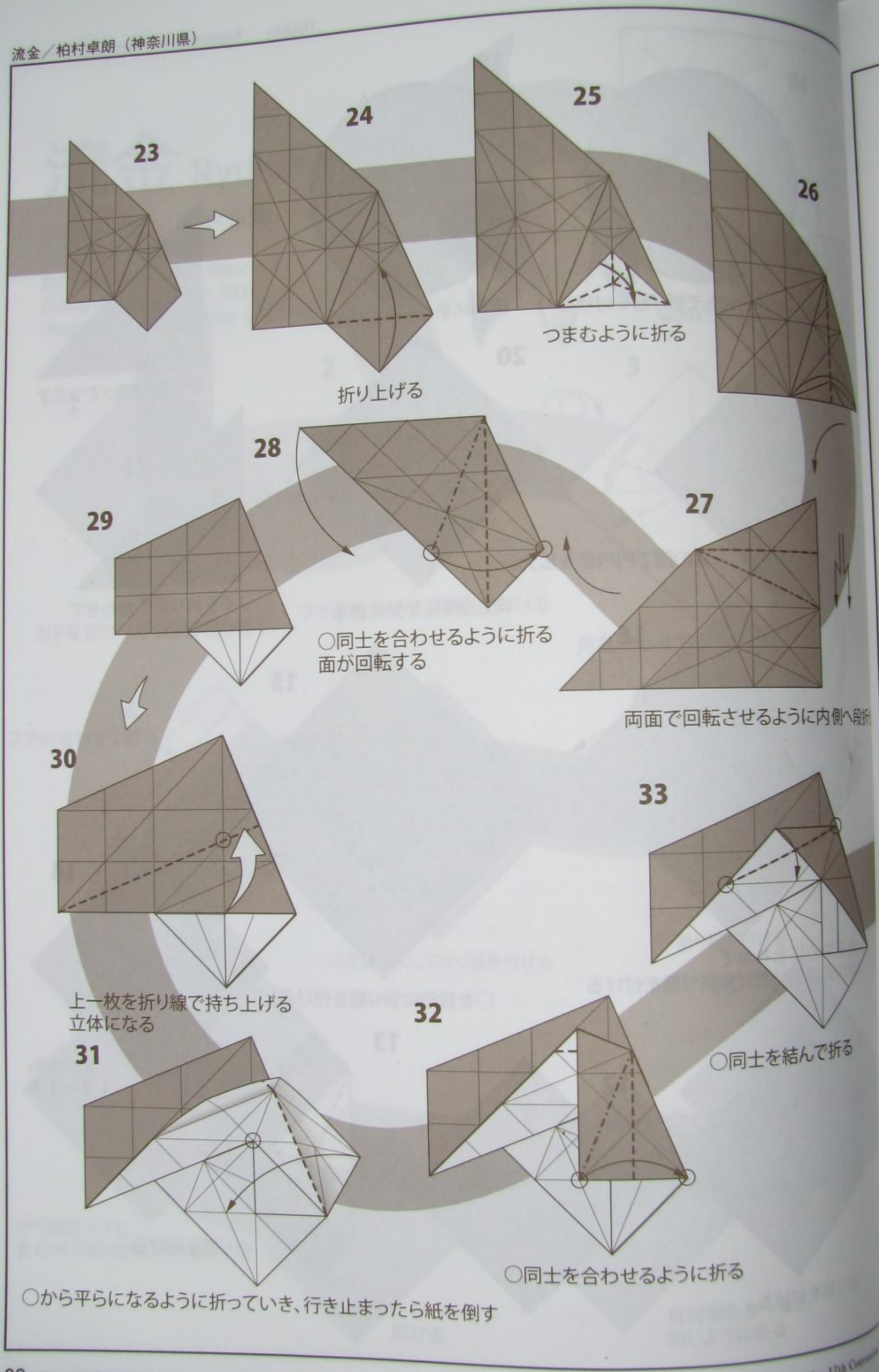


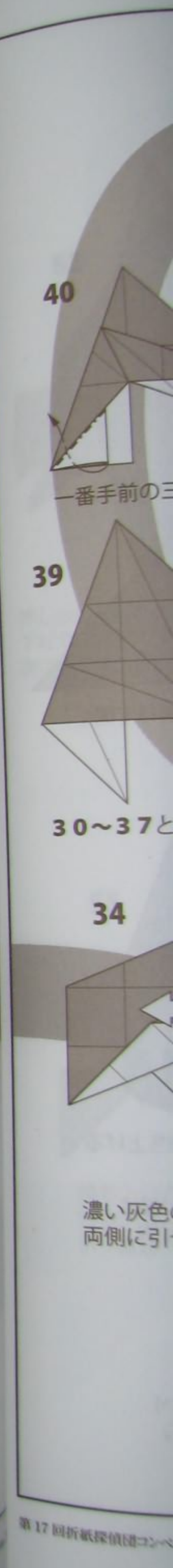

©2011 KASHIWAMURA Takuro

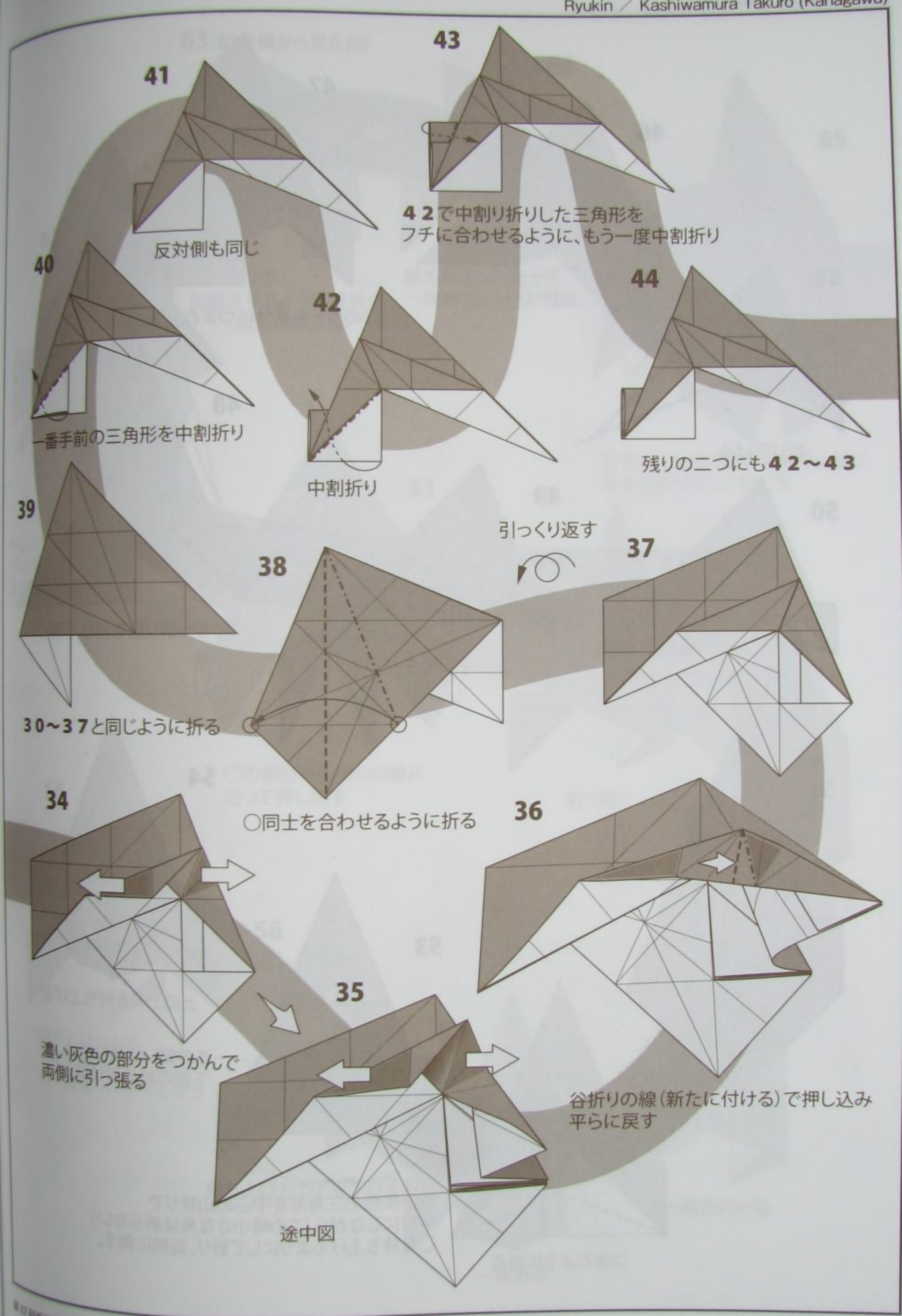



18
折り筋を半分にして折り筋を付ける
19
直角に折り筋を付ける
22
折り筋で開いてつぶす
17
次の図で円内部を拡大
20
向こう側に半分に折る
21
フチを折り筋に合わせて
折り筋を付ける
16
角を中心に合わせて
太い点線部分だけに折り筋を付ける
15
○を目印に折り筋を付ける
14
反対側も
12〜13
11
折り筋を付ける
12
13
折り筋を付ける

流金／柏村卓朗（神奈川県）


23
24
折り上げる
25
つまむように折る
26
27
両面で回転させるように内側へ段折
28
29
○同士を合わせるように折る
面が回転する
30
上一枚を折り線で持ち上げる
立体になる
31
○から平らになるように折っていき、行き止まったら紙を倒す
32
○同士を合わせるように折る
33
○同士を結んで折る


40
一番手前の三
39
30～37と
34
濃い灰色
両側に引


43
41
反対側も同じ
42で中割り折りした三角形を
フチに合わせるように、もう一度中割り折り
40
44
42
一番手前の三角形を中割り折り
中割折り
残りの二つにも42～43
39
引っくり返す
38
37
30～37と同じように折る
34
○同士を合わせるように折る
36
35
濃い灰色の部分をつかんで
両側に引っ張る
谷折りの線（新たに付ける）で押し込み
平らに戻す
途中図

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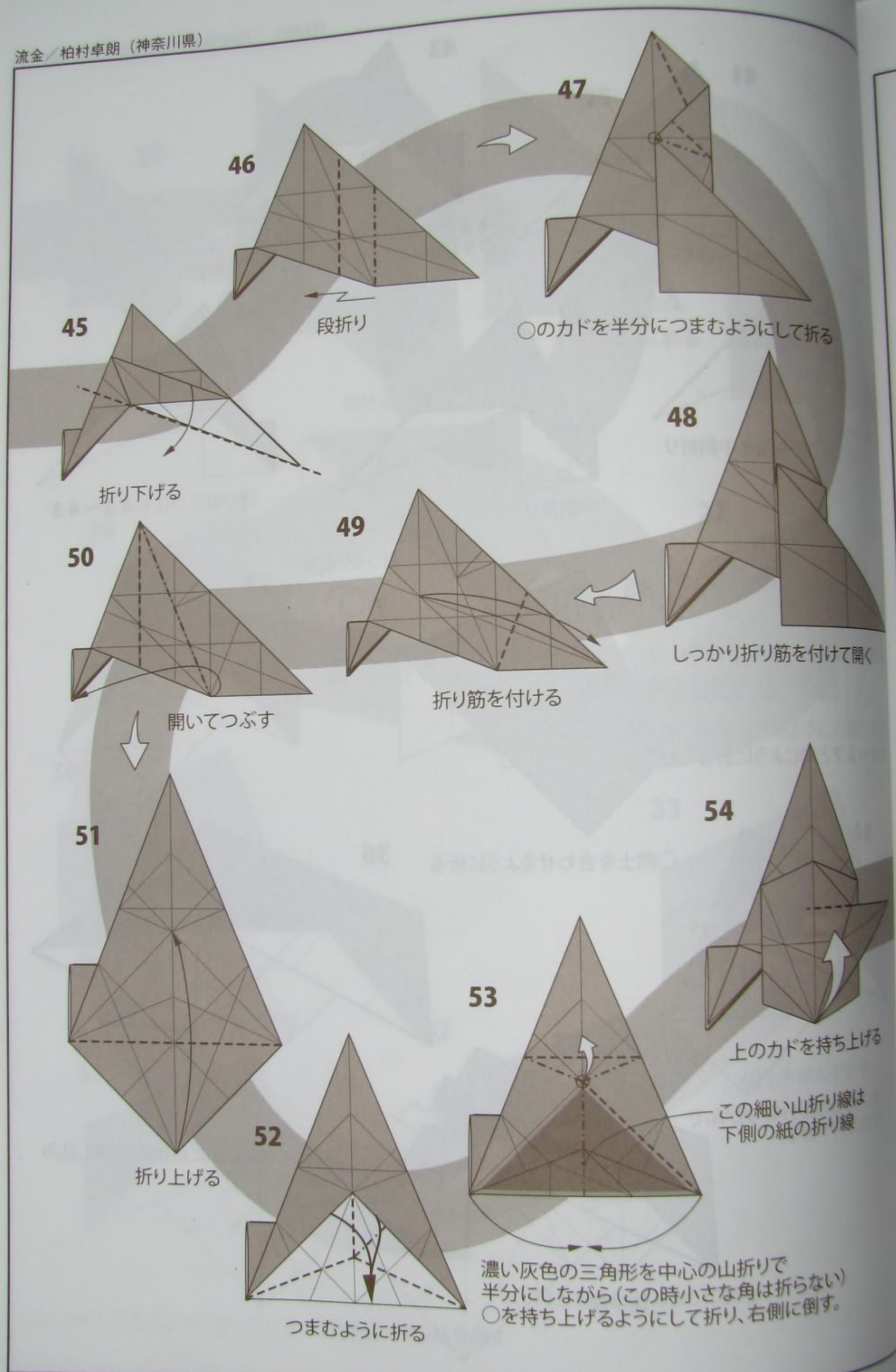
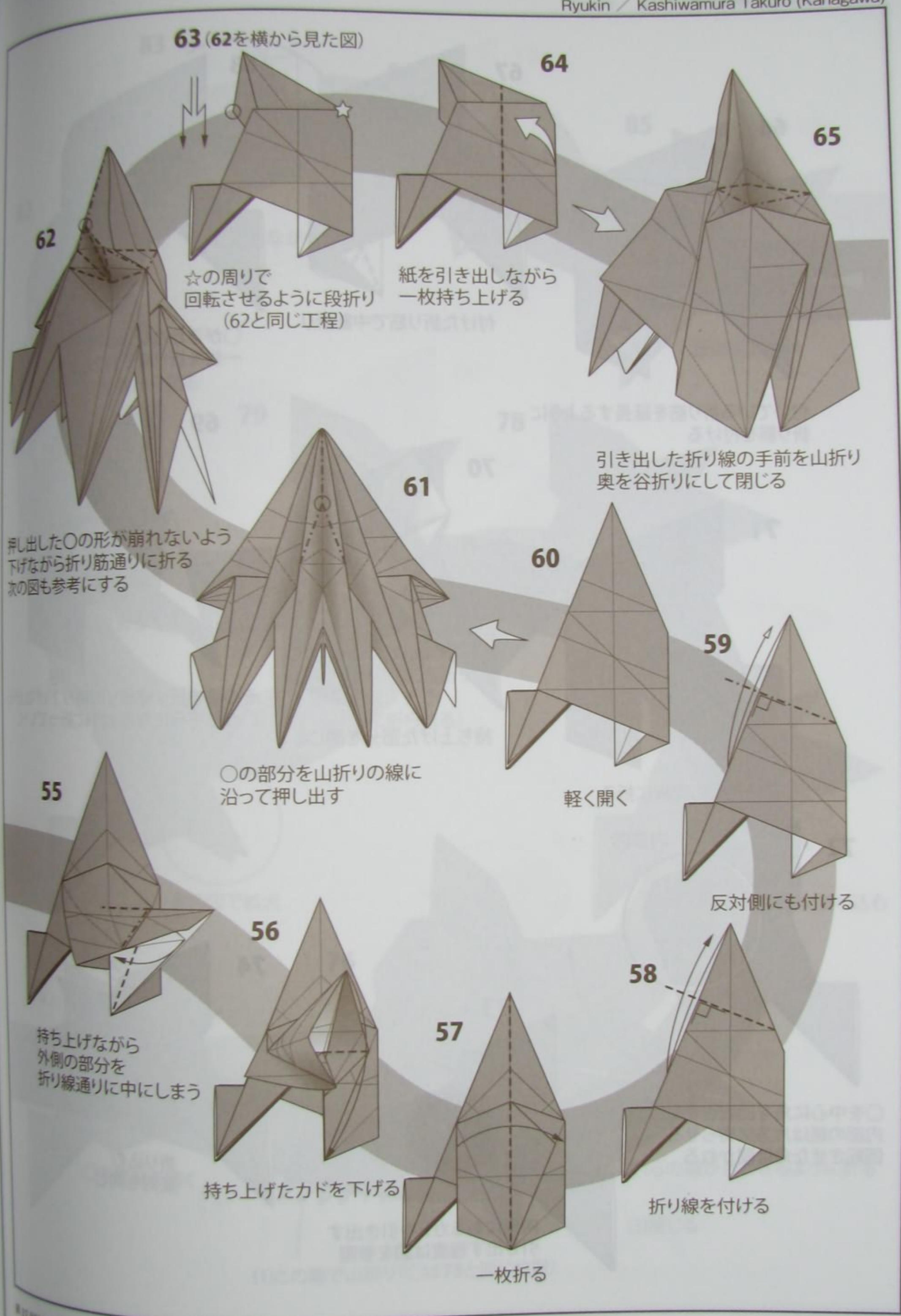

46
47
段折り
○のカドを半分につまむようにして折る
45
折り下げる
48
49
50
しっかり折り筋を付けて開く
折り筋を付ける
開いてつぶす
51
54
53
上のカドを持ち上げる
52
この細い山折り線は
下側の紙の折り線
折り上げる
濃い灰色の三角形を中心の山折りで
半分にしながら（この時小さな角は折らない）
○を持ち上げるようにして折り、右側に倒す。
つまむように折る


63（62を横から見た図）
64
65
62
☆の周りで
回転させるように段折り
（62と同じ工程）
紙を引き出しながら
一枚持ち上げる
引き出した折り線の手前を山折り
奥を谷折りにして閉じる
61
60
押し出した○の形が崩れないよう
下げながら折り筋通りに折る
次の図も参考にする
59
○の部分を山折りの線に
沿って押し出す
軽く開く
55
反対側にも付ける
56
58
57
持ち上げながら
外側の部分を
折り線通りに中にしまう
持ち上げたカドを下げる
折り線を付ける
一枚折る

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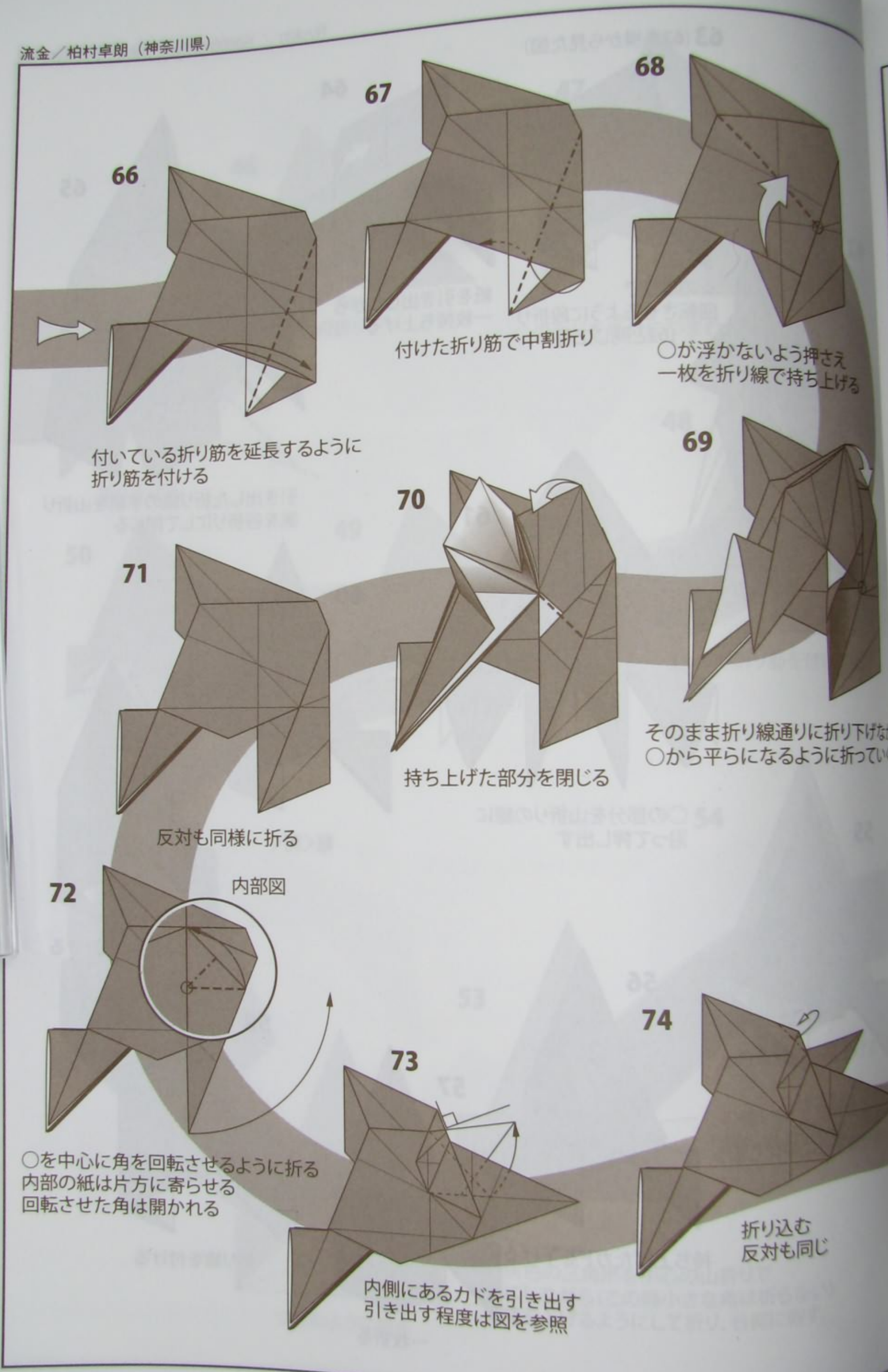
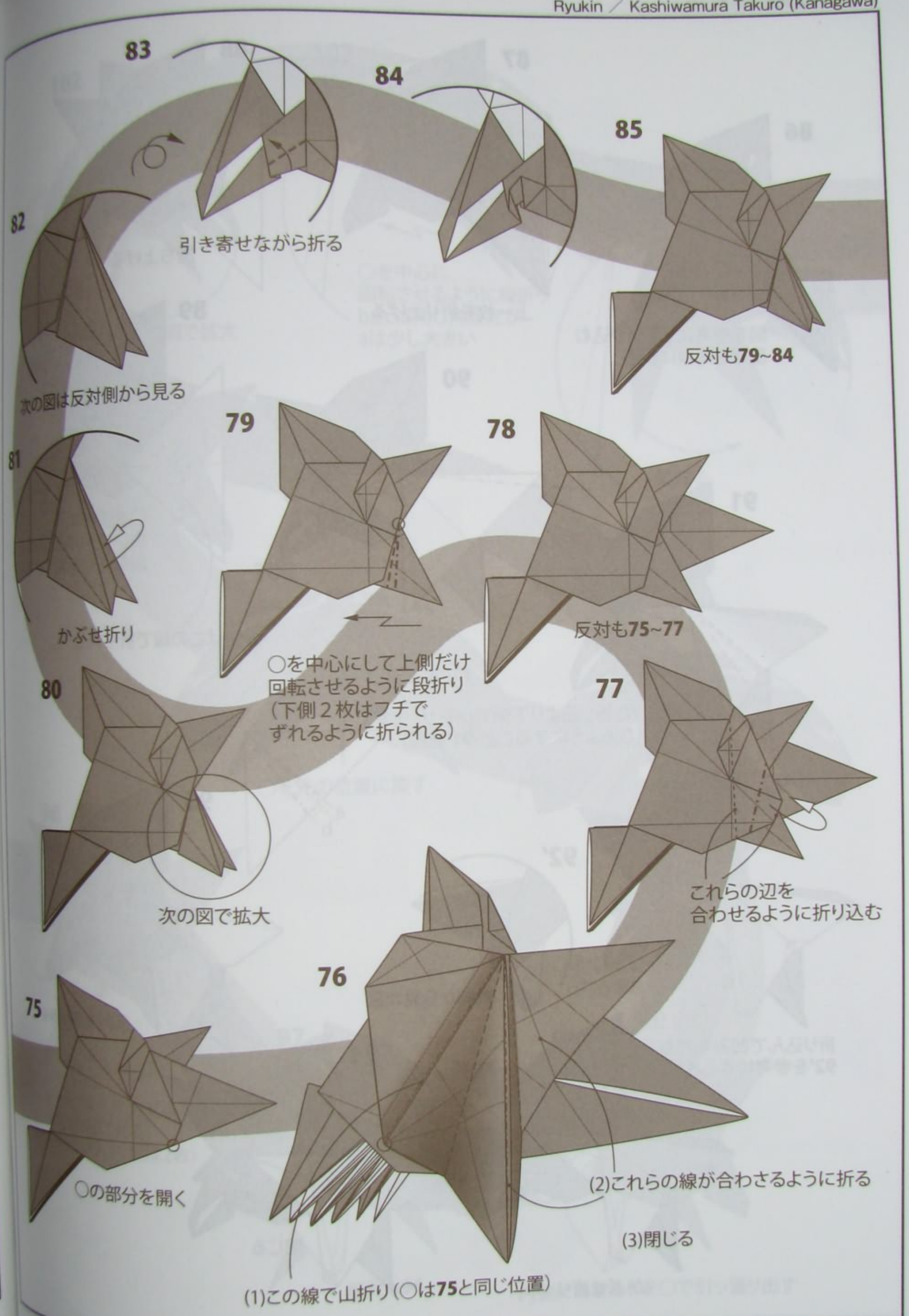
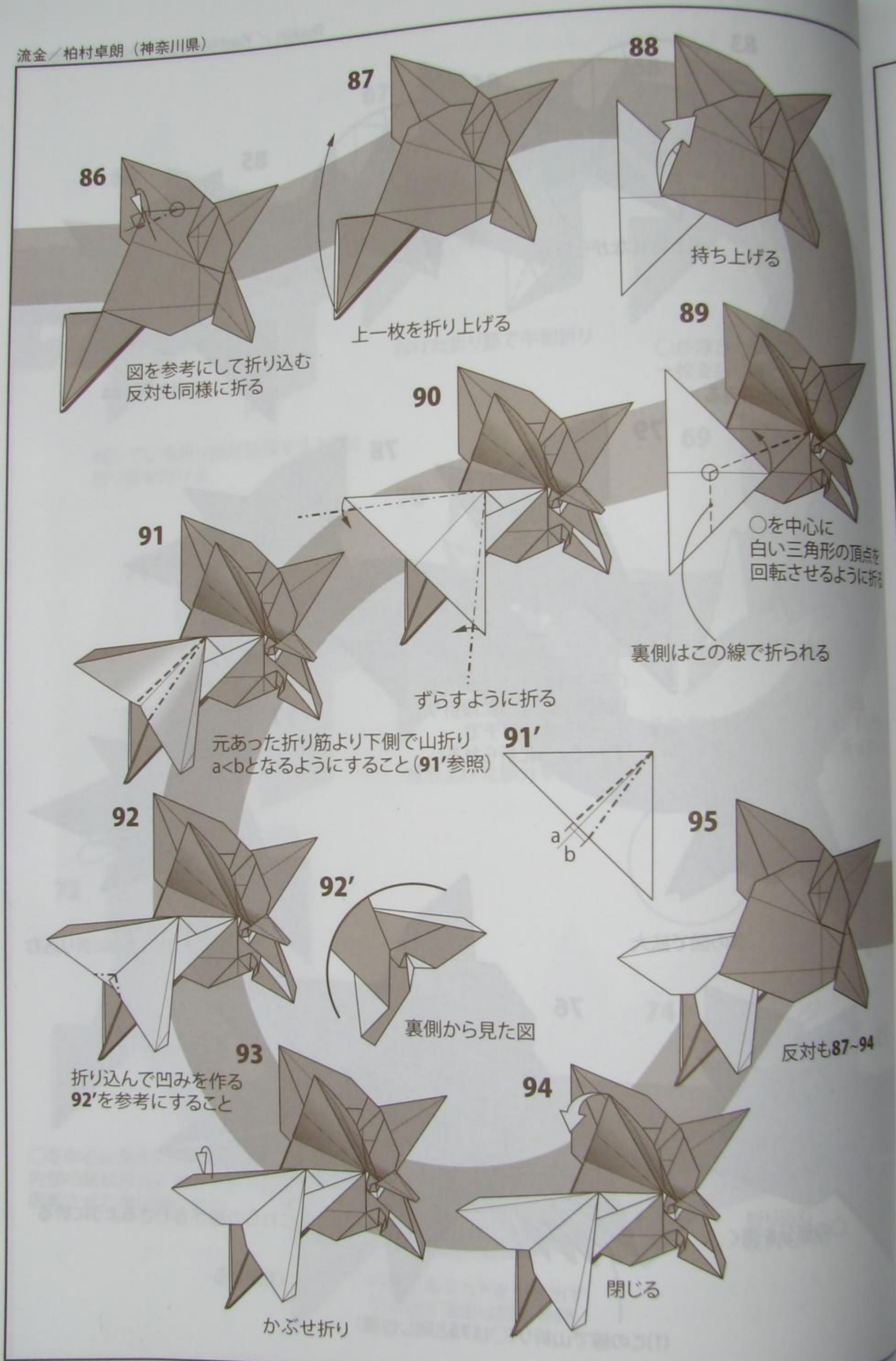
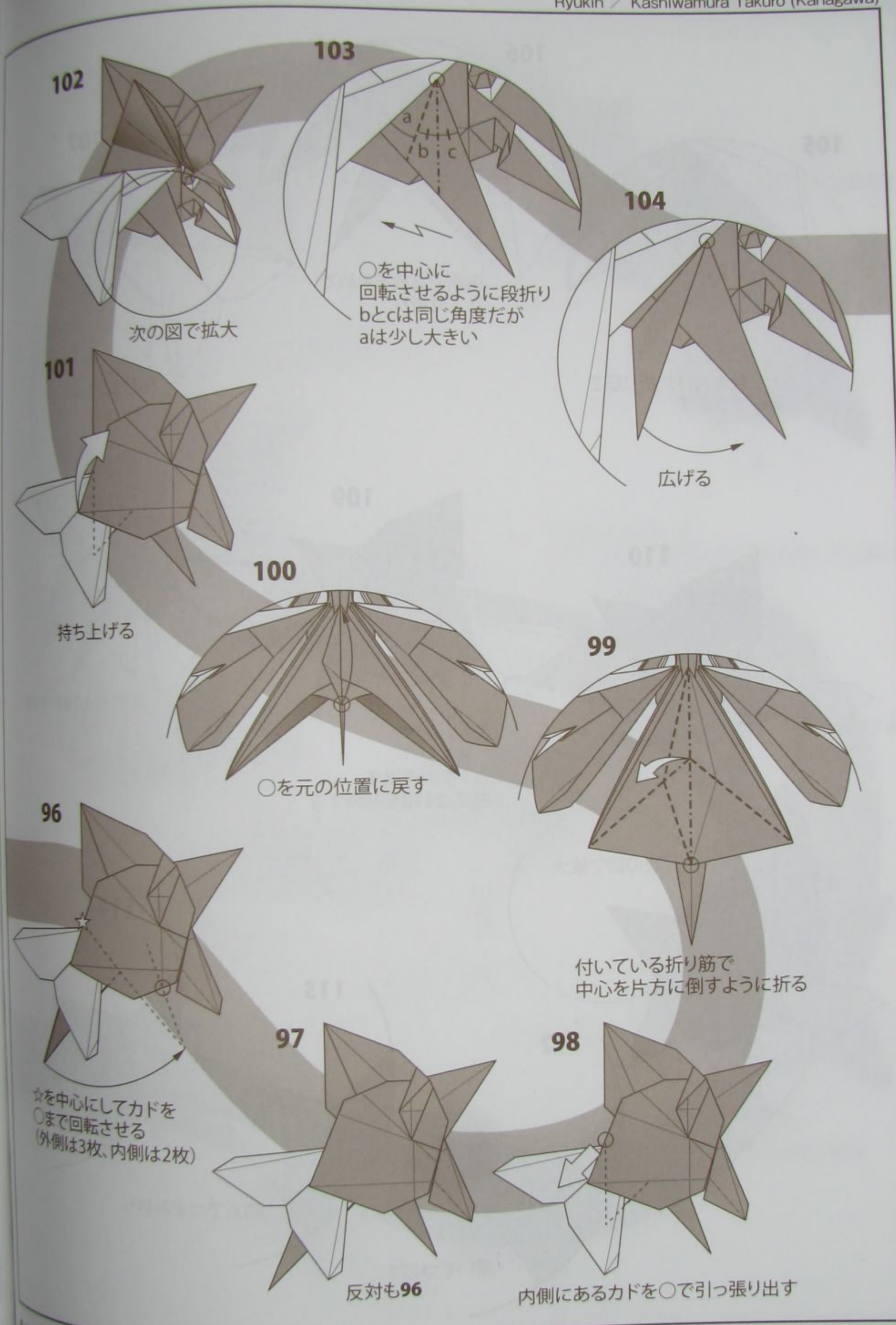

66
67
68
付けた折り筋で中割折り
○が浮かないよう押さえ
一枚を折り線で持ち上げる
付いている折り筋を延長するように
折り筋を付ける
69
70
71
持ち上げた部分を閉じる
そのまま折り線通りに折り下げな
○から平らになるように折っていく
反対も同様に折る
72
内部図
74
73
○を中心に角を回転させるように折る
内部の紙は片方に寄らせる
回転させた角は開かれる
折り込む
反対も同じ
内側にあるカドを引き出す
引き出す程度は図を参照

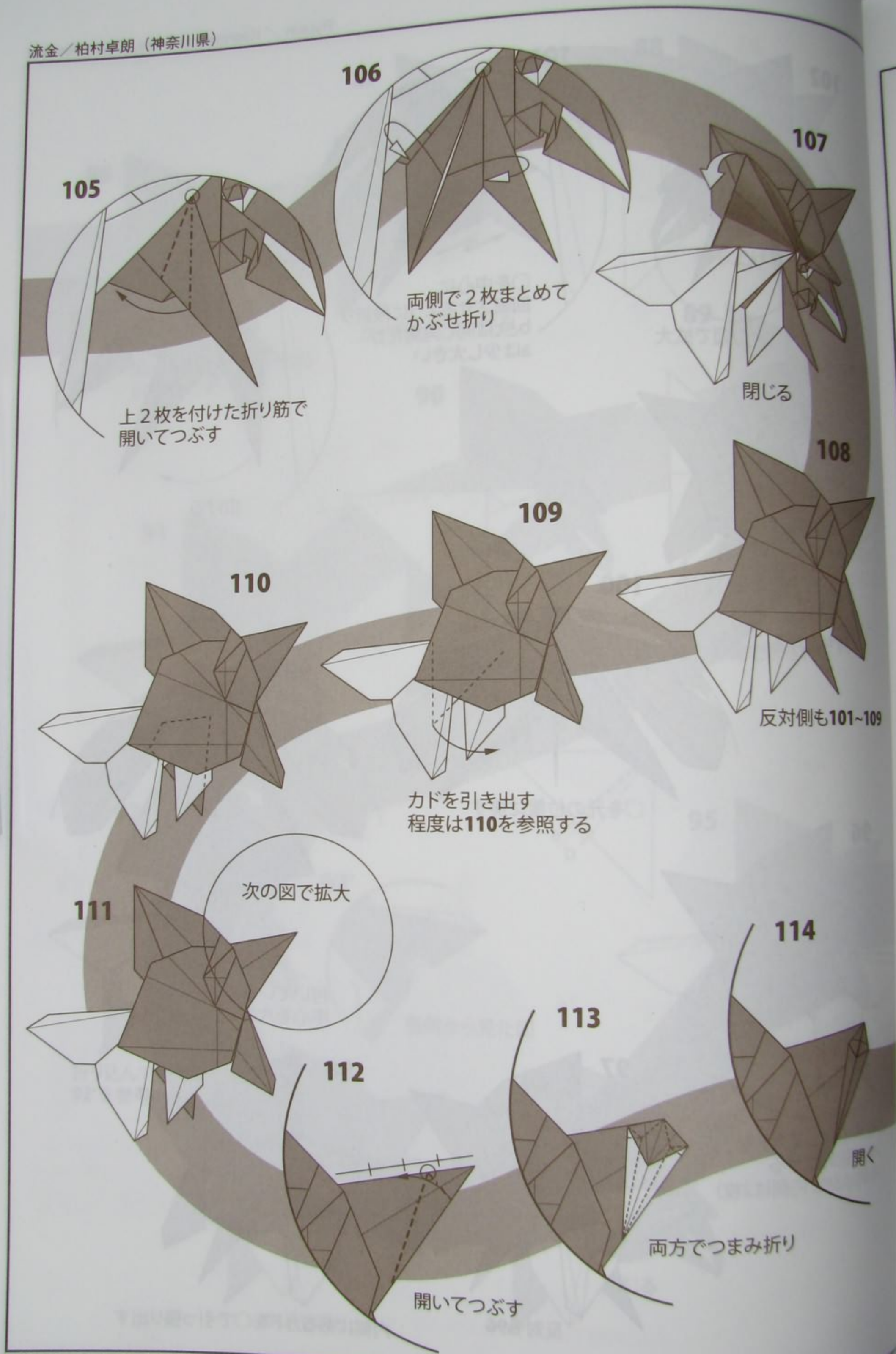

83
84
85
82
引き寄せながら折る
反対も79~84
次の図は反対側から見る
79
78
81
かぶせ折り
反対も75~77
○を中心にして上側だけ
回転させるように段折り
(下側２枚はフチで
ずれるように折られる)
80
77
次の図で拡大
これらの辺を
合わせるように折り込む
76
75
○の部分を開く
(2)これらの線が合わさるように折る
(3)閉じる
(1)この線で山折り(○は75と同じ位置)

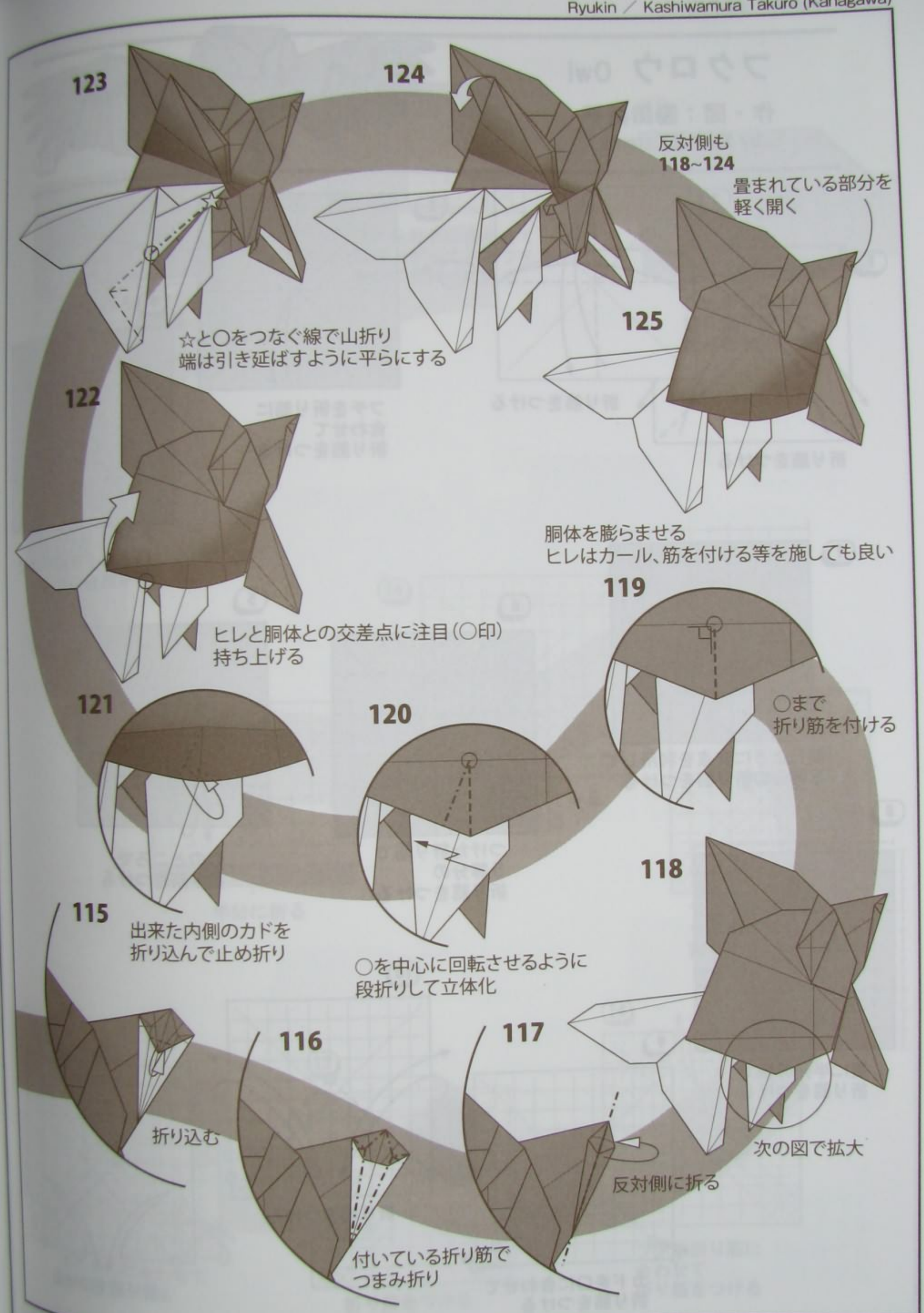
流金／柏村卓朗（神奈川県）


86
図を参考にして折り込む
反対も同様に折る
87
上一枚を折り上げる
88
持ち上げる
89
○を中心に
白い三角形の頂点を
回転させるように折る
裏側はこの線で折られる
90
ずらすように折る
91
元あった折り筋より下側で山折り
a<bとなるようにすること（91′参照）
91′
a
b
92
92′
裏側から見た図
93
折り込んで凹みを作る
92′を参考にすること
かぶせ折り
94
閉じる
95
反対も87~94


102
次の図で拡大
103
a
b
c
○を中心に
回転させるように段折り
bとcは同じ角度だが
aは少し大きい
104
広げる
101
持ち上げる
100
○を元の位置に戻す
99
付いている折り筋で
中心を片方に倒すように折る
96
☆を中心にしてカドを
○まで回転させる
(外側は3枚、内側は2枚)
97
反対も96
98
内側にあるカドを○で引っ張り出す

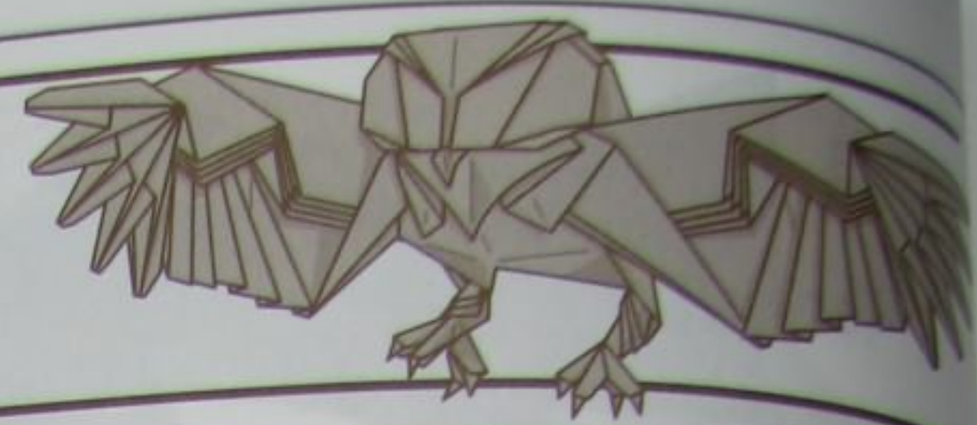
流金／柏村卓朗（神奈川県）

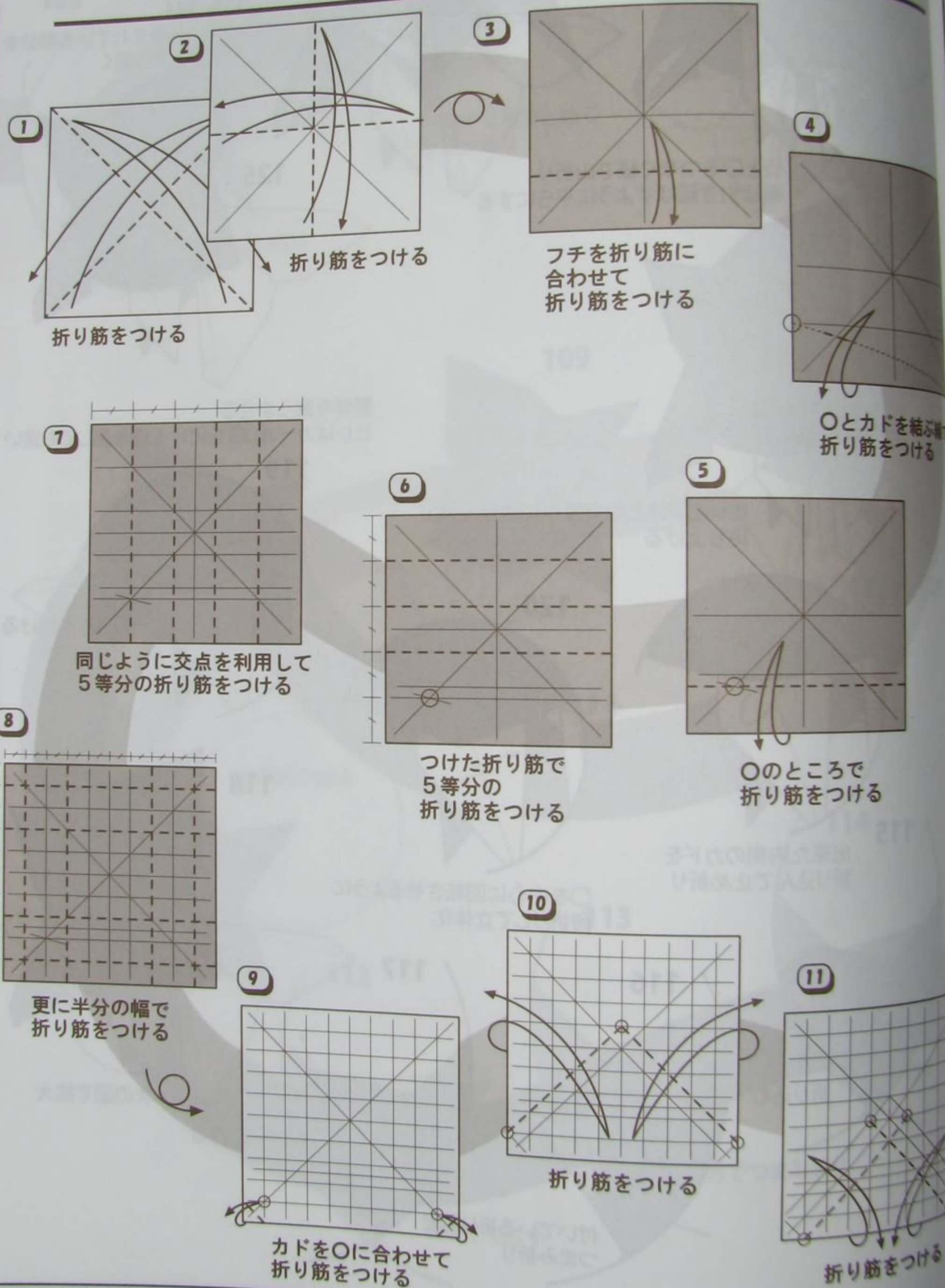

105
上２枚を付けた折り筋で
開いてつぶす
106
両側で２枚まとめて
かぶせ折り
107
閉じる
108
反対側も101~109
109
カドを引き出す
程度は110を参照する
110
111
次の図で拡大
112
開いてつぶす
113
両方でつまみ折り
114
開く

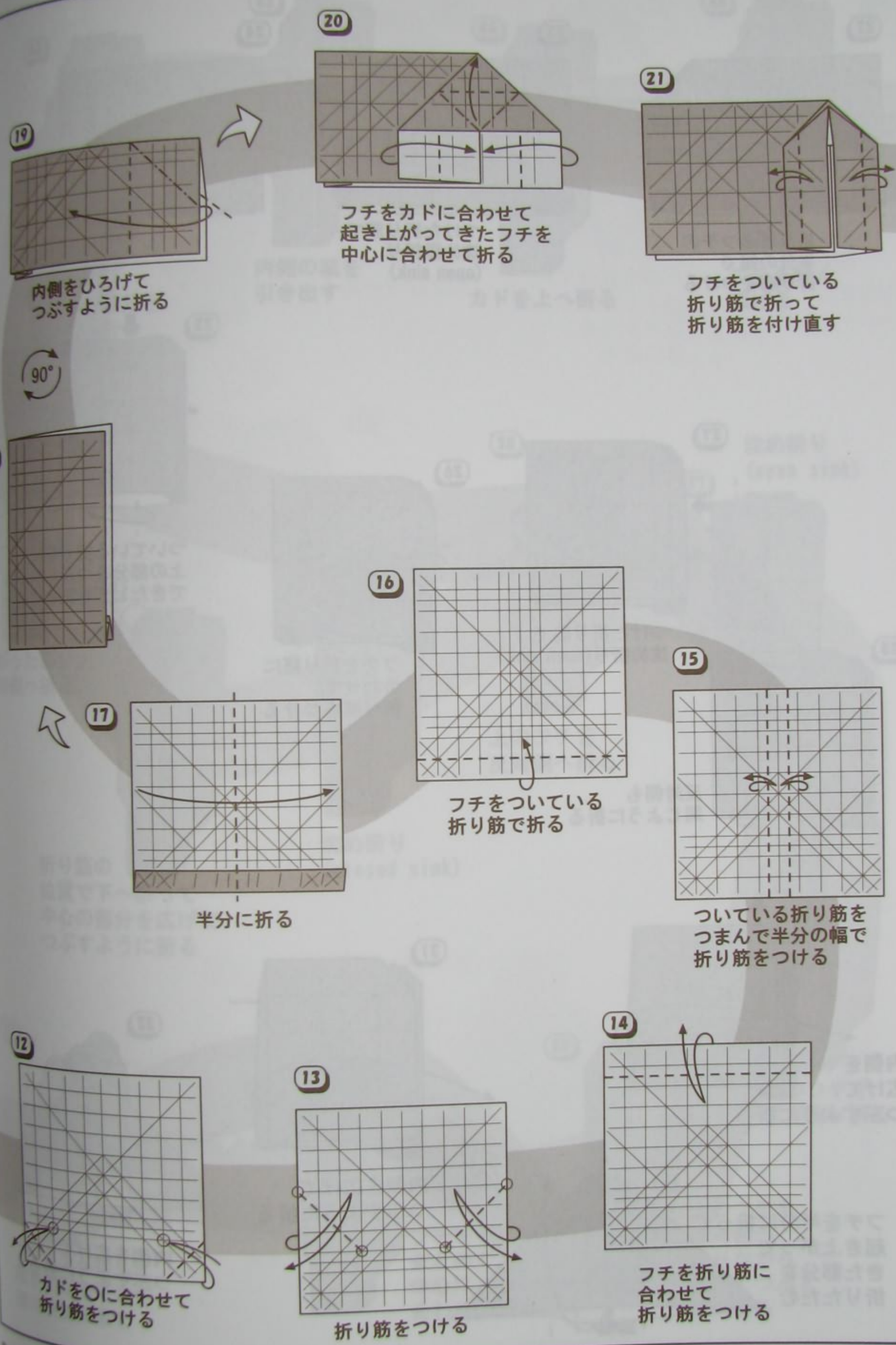

123
124
反対側も
118~124
畳まれている部分を
軽く開く
125
☆と○をつなぐ線で山折り
端は引き延ばすように平らにする
122
胴体を膨らませる
ヒレはカール、筋を付ける等を施しても良い
119
ヒレと胴体との交差点に注目（○印）
持ち上げる
121
120
○まで
折り筋を付ける
118
115
出来た内側のカドを
折り込んで止め折り
○を中心に回転させるように
段折りして立体化
116
117
折り込む
次の図で拡大
反対側に折る
付いている折り筋で
つまみ折り

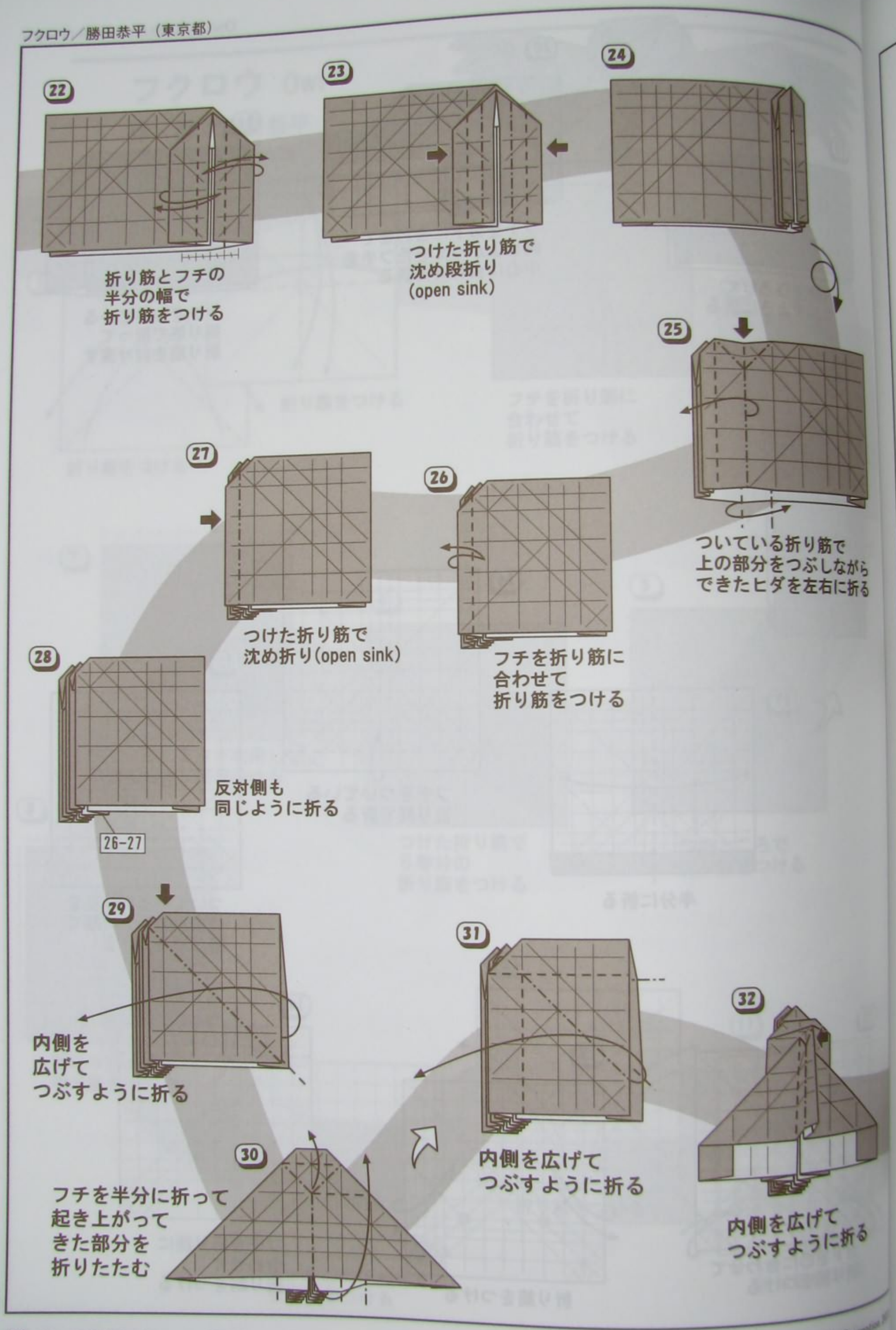
# フクロウ Owl

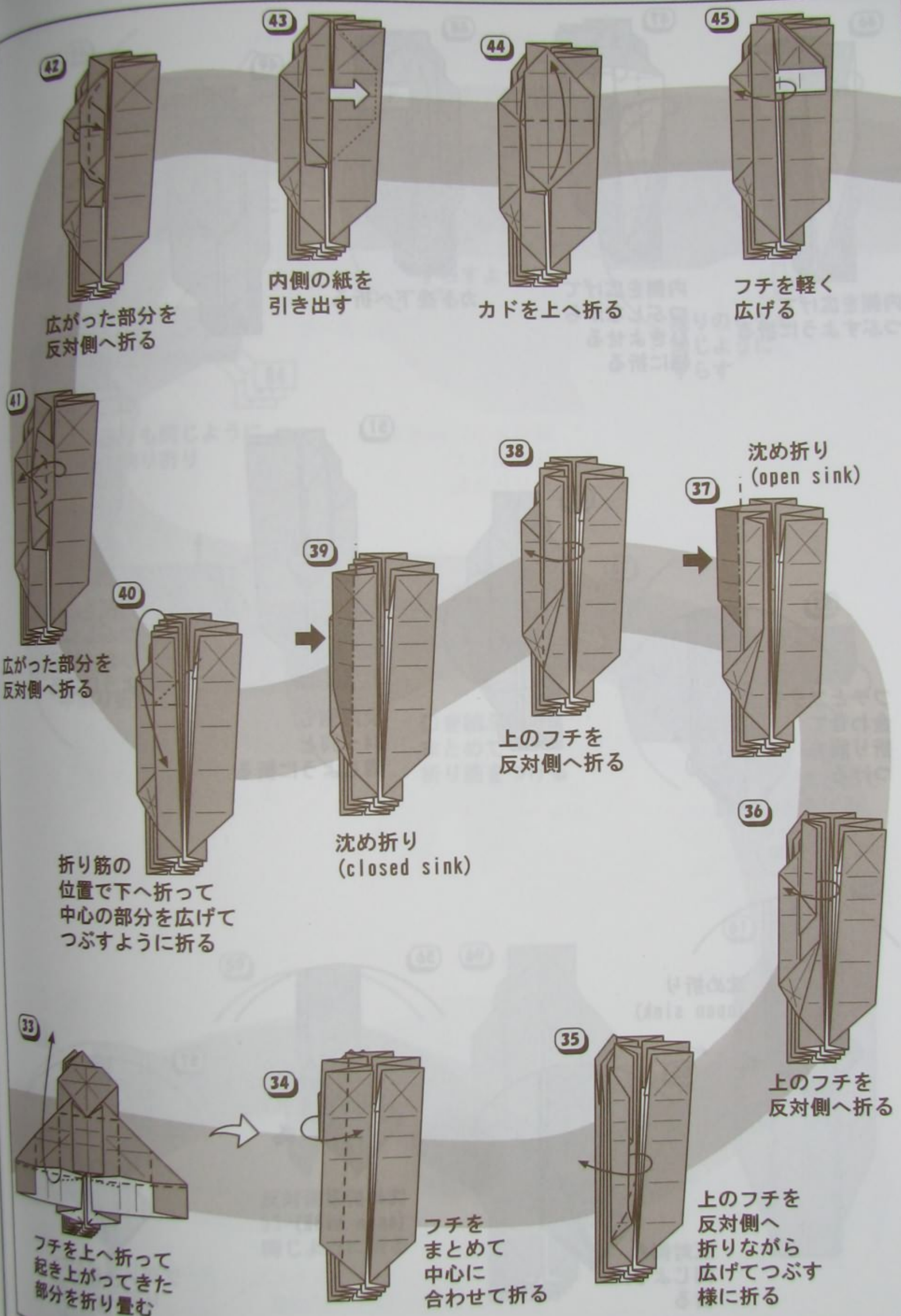
作・図：勝田恭平
by Kyohei Katsuta

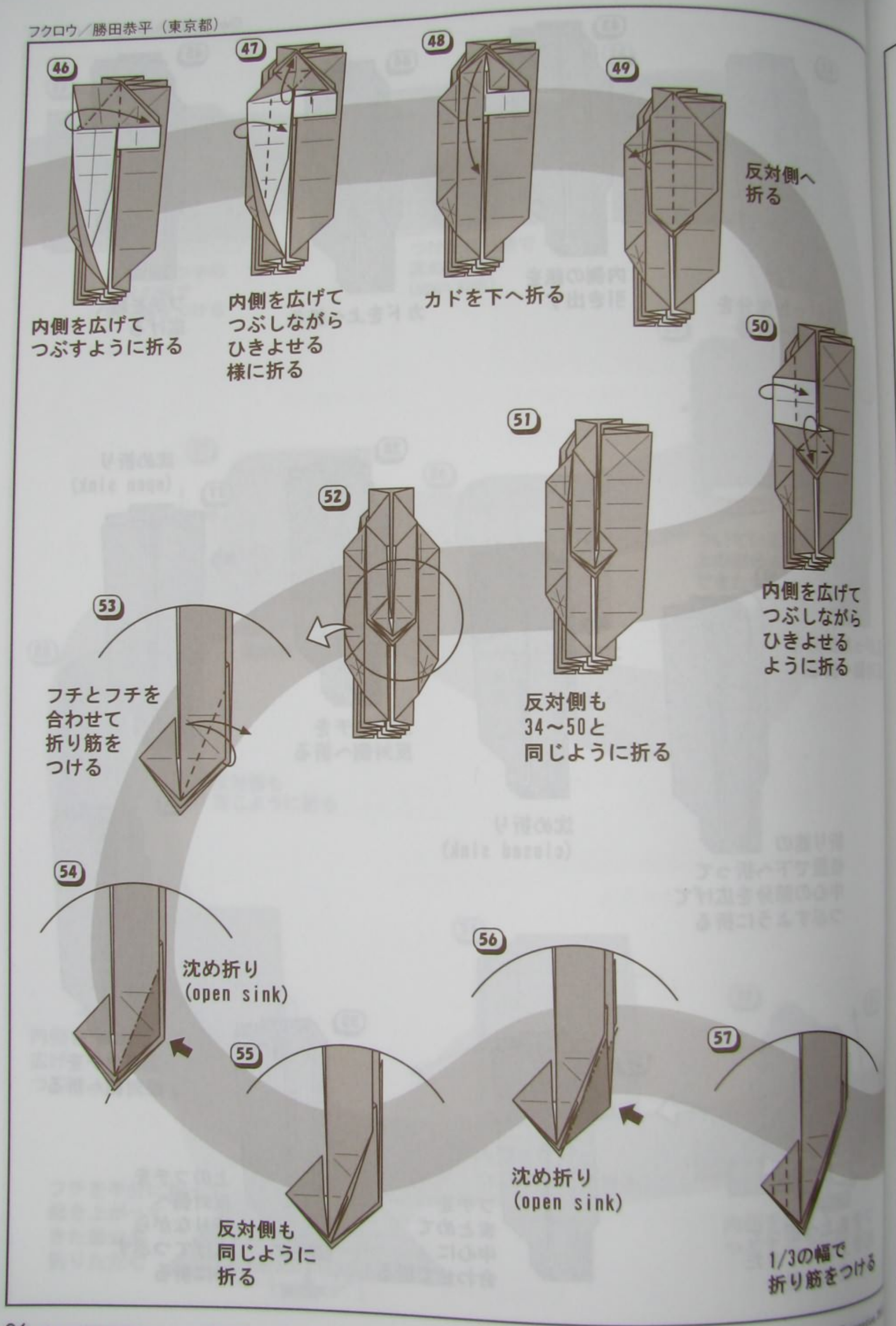


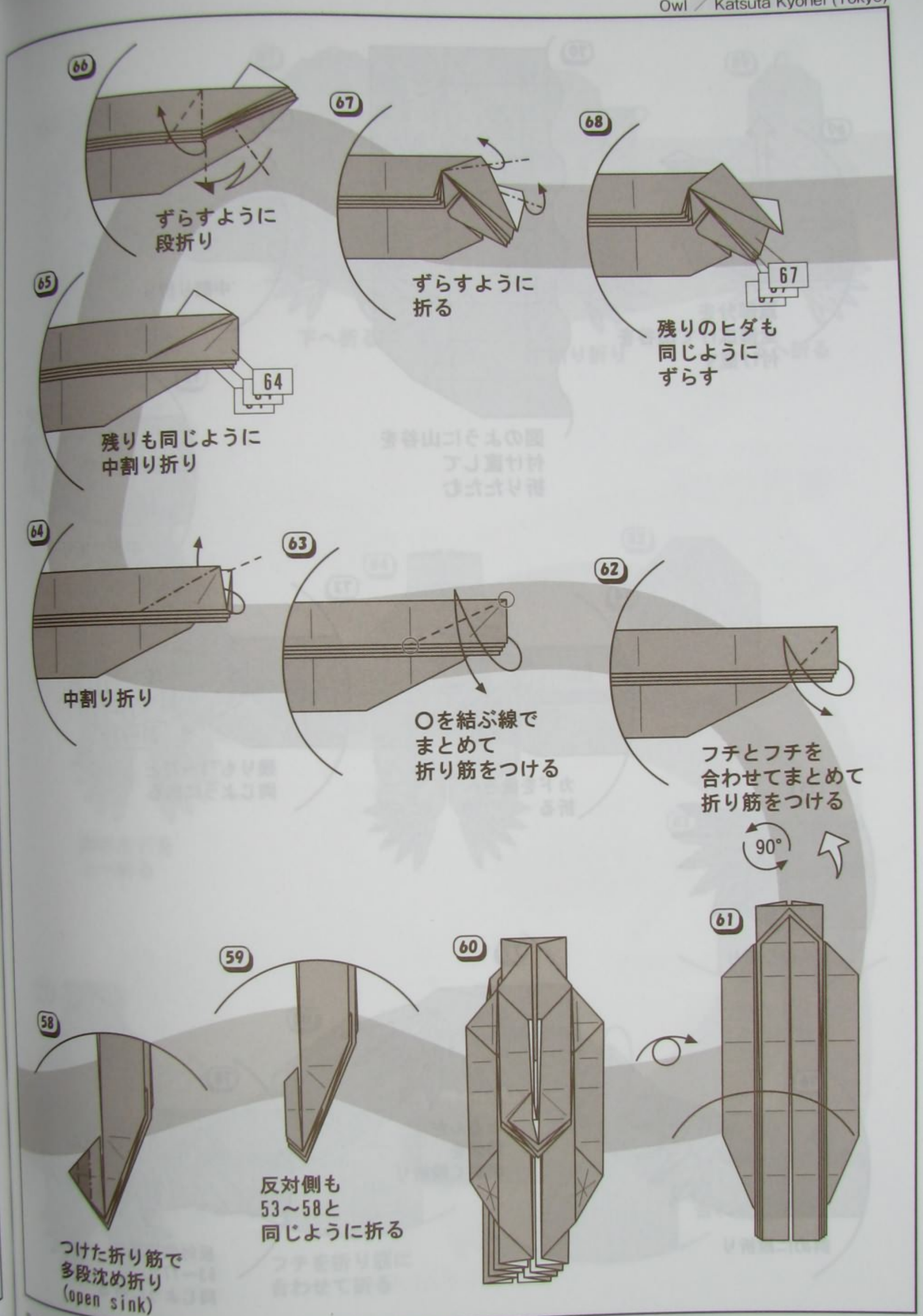



20
フチをカドに合わせて
起き上がってきたフチを
中心に合わせて折る
21
フチをついている
折り筋で折って
折り筋を付け直す
19
内側をひろげて
つぶすように折る
90°
18
16
フチをついている
折り筋で折る
15
ついている折り筋を
つまんで半分の幅で
折り筋をつける
17
半分に折る
12
カドを○に合わせて
折り筋をつける
13
折り筋をつける
14
フチを折り筋に
合わせて
折り筋をつける

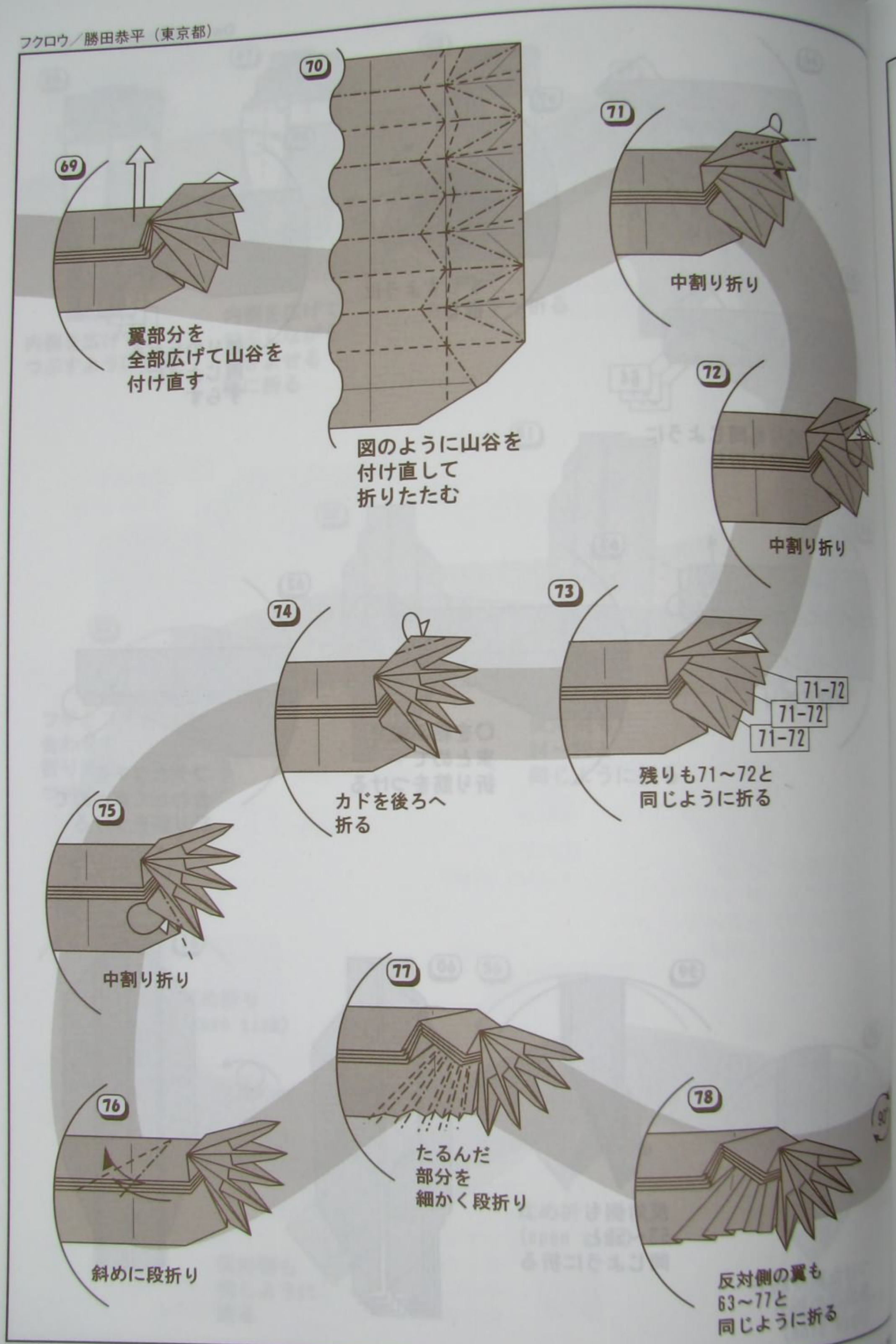

22
折り筋とフチの
半分の幅で
折り筋をつける
23
つけた折り筋で
沈め段折り
(open sink)
24
25
ついている折り筋で
上の部分をつぶしながら
できたヒダを左右に折る
26
フチを折り筋に
合わせて
折り筋をつける
27
つけた折り筋で
沈め折り(open sink)
28
反対側も
同じように折る
26-27
29
内側を
広げて
つぶすように折る
30
フチを半分に折って
起き上がって
きた部分を
折りたたむ
31
内側を広げて
つぶすように折る
32
内側を広げて
つぶすように折る

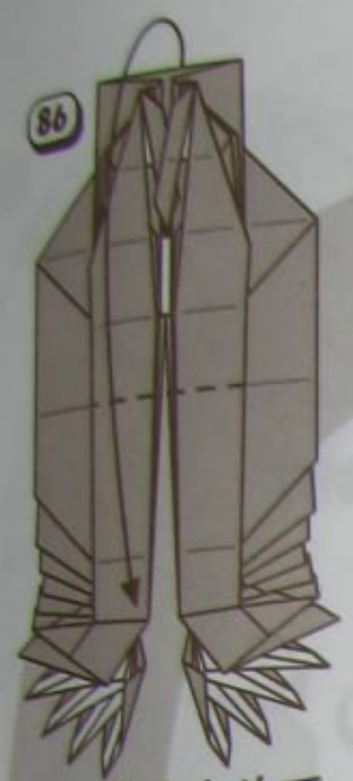

42
広がった部分を
反対側へ折る
43
内側の紙を
引き出す
44
カドを上へ折る
45
フチを軽く
広げる
41
広がった部分を
反対側へ折る
40
折り筋の
位置で下へ折って
中心の部分を広げて
つぶすように折る
39
沈め折り
(closed sink)
38
上のフチを
反対側へ折る
37
沈め折り
(open sink)
36
上のフチを
反対側へ折る
33
フチを上へ折って
起き上がってきた
部分を折り畳む
34
フチを
まとめて
中心に
合わせて折る
35
上のフチを
反対側へ
折りながら
広げてつぶす
様に折る

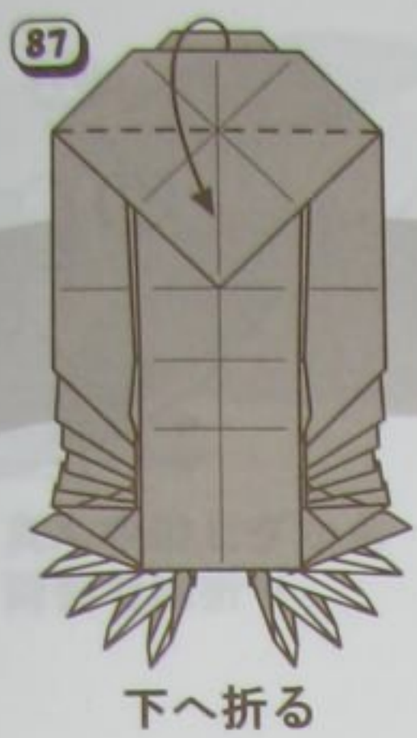

46
内側を広げて
つぶすように折る
47
内側を広げて
つぶしながら
ひきよせる
様に折る
48
カドを下へ折る
49
反対側へ
折る
50
内側を広げて
つぶしながら
ひきよせる
ように折る
51
反対側も
34～50と
同じように折る
52
53
フチとフチを
合わせて
折り筋を
つける
54
沈め折り
(open sink)
55
反対側も
同じように
折る
56
沈め折り
(open sink)
57
1/3の幅で
折り筋をつける

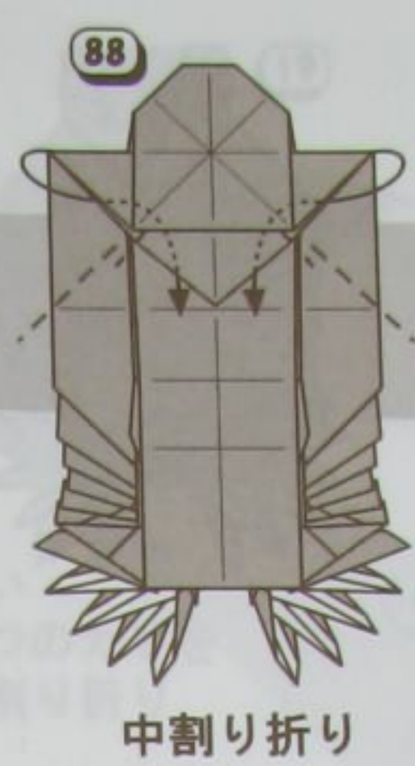

66
ずらすように
段折り
67
ずらすように
折る
68
67
残りのヒダも
同じように
ずらす
65
64
残りも同じように
中割り折り
64
中割り折り
63
○を結ぶ線で
まとめて
折り筋をつける
62
フチとフチを
合わせてまとめて
折り筋をつける
90°
61
60
59
58
反対側も
53～58と
同じように折る
つけた折り筋で
多段沈め折り
(open sink)

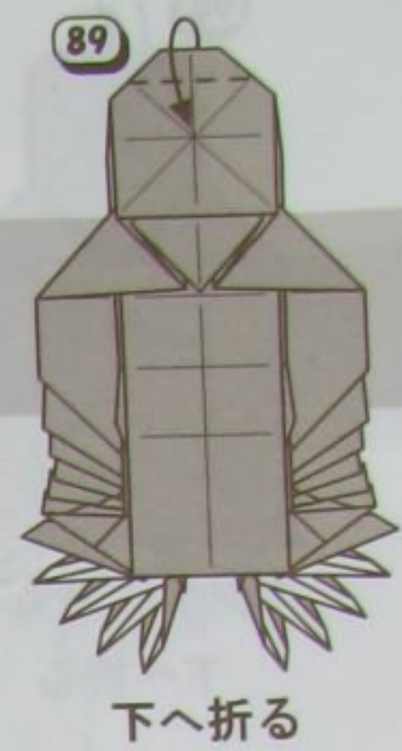
フクロウ／勝田恭平（東京都）

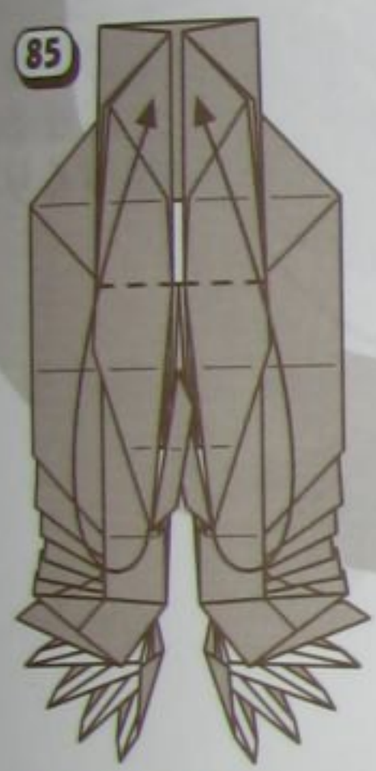


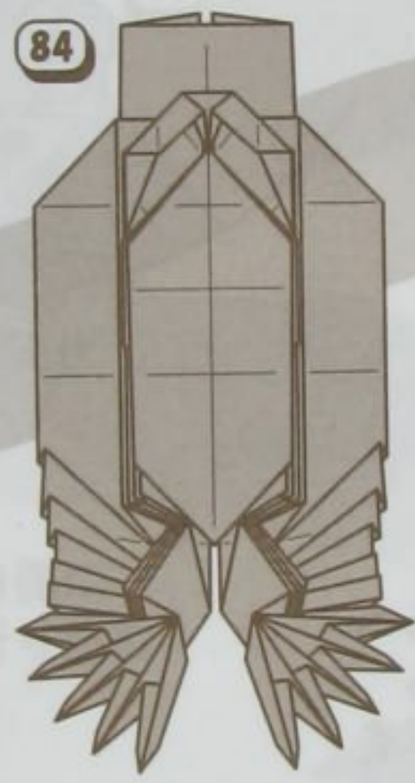

86
カドをまとめて
下へ折る

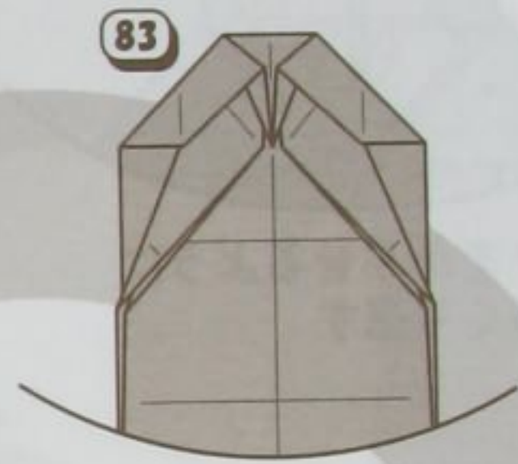

87
下へ折る

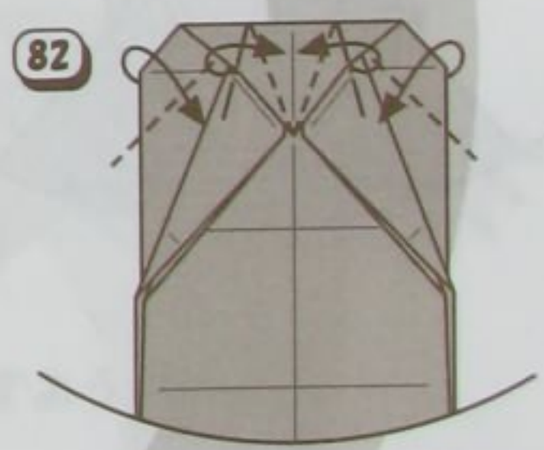

88
中割り折り


89
下へ折る

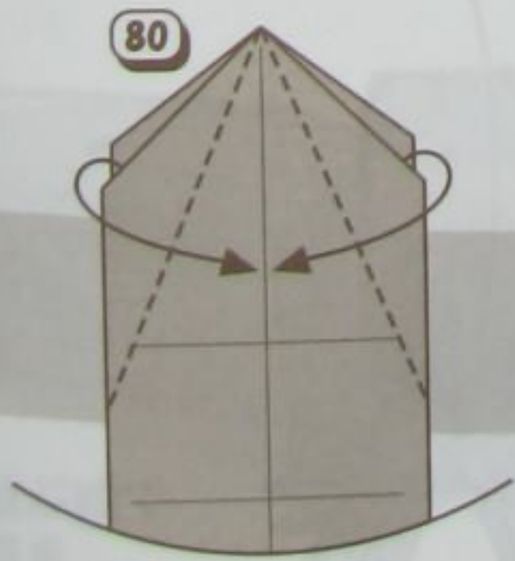

85
脚のカドを
上へ折る


84


83

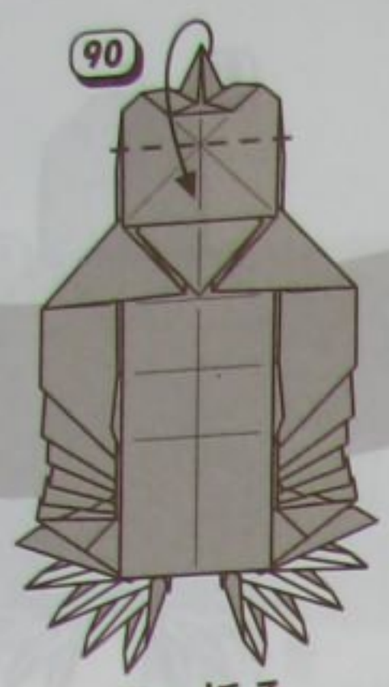

82
引きよせる
ように折る


79

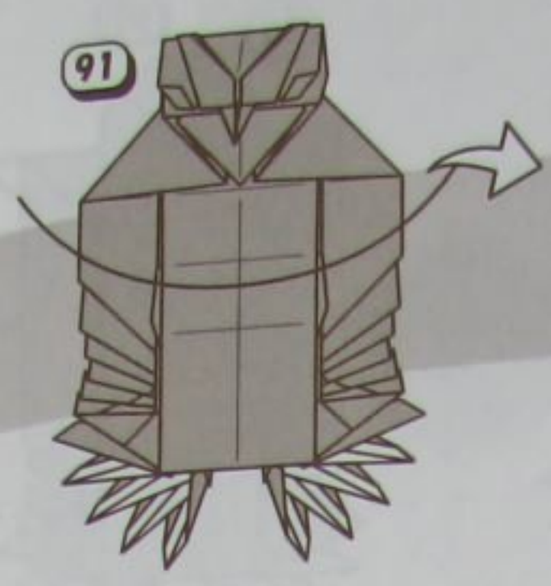

80
フチを折り筋に
合わせて折る

81
カドとカドを
合わせて折る

フクロウ／勝田恭平（東京都）

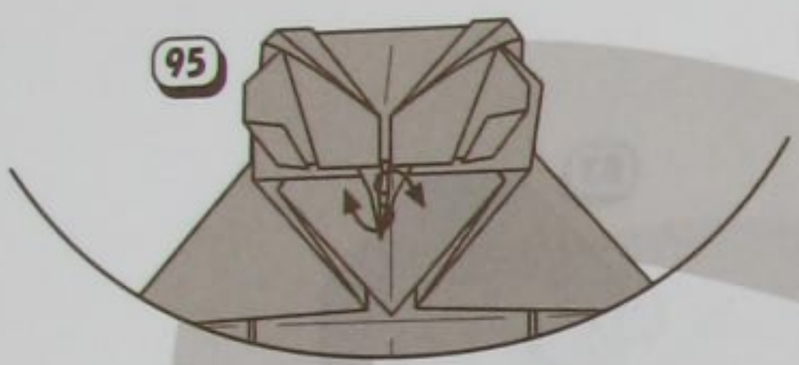



下へ折る



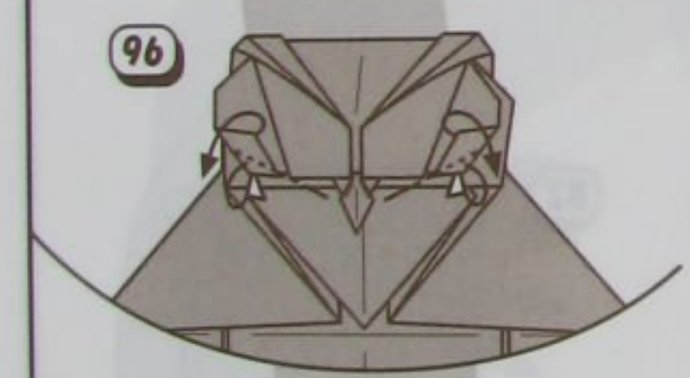
中割り折り

上の1枚を
かぶせるように
ひっくり返す

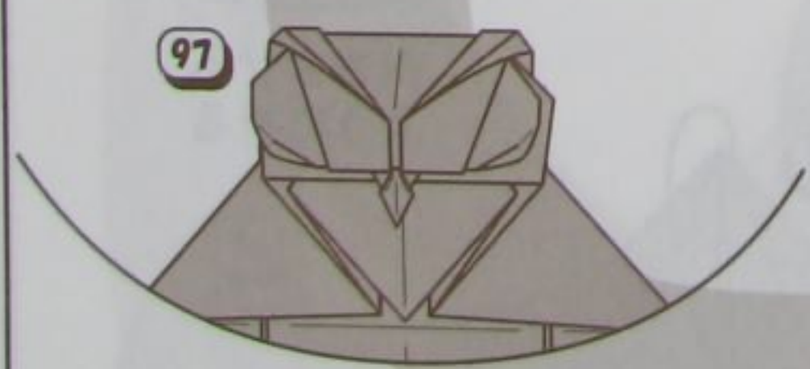


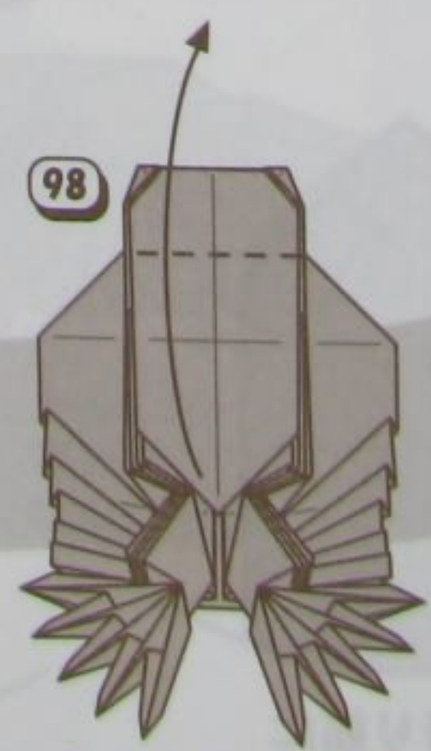

フチをかぶせるように
ひっくり返す

カドをつまむ

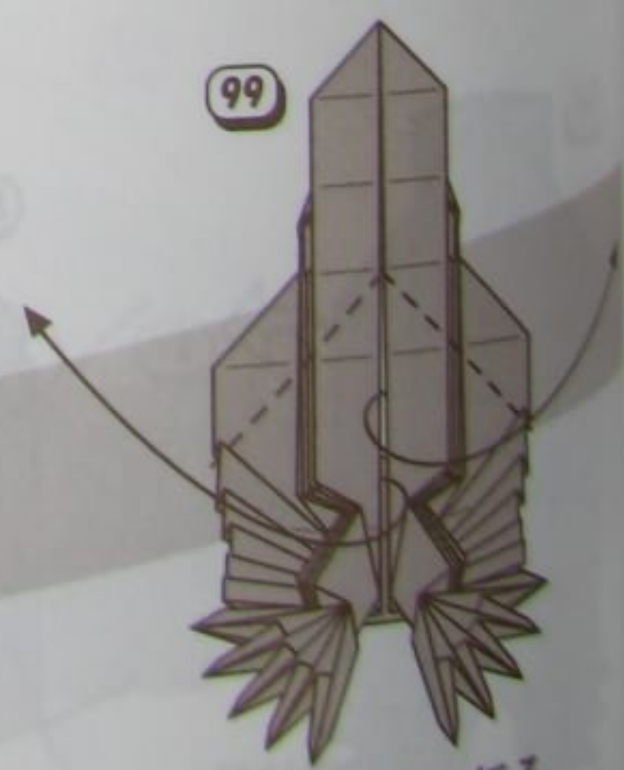



カドを後ろへ
折りながら
手前のカドを
ひろげる

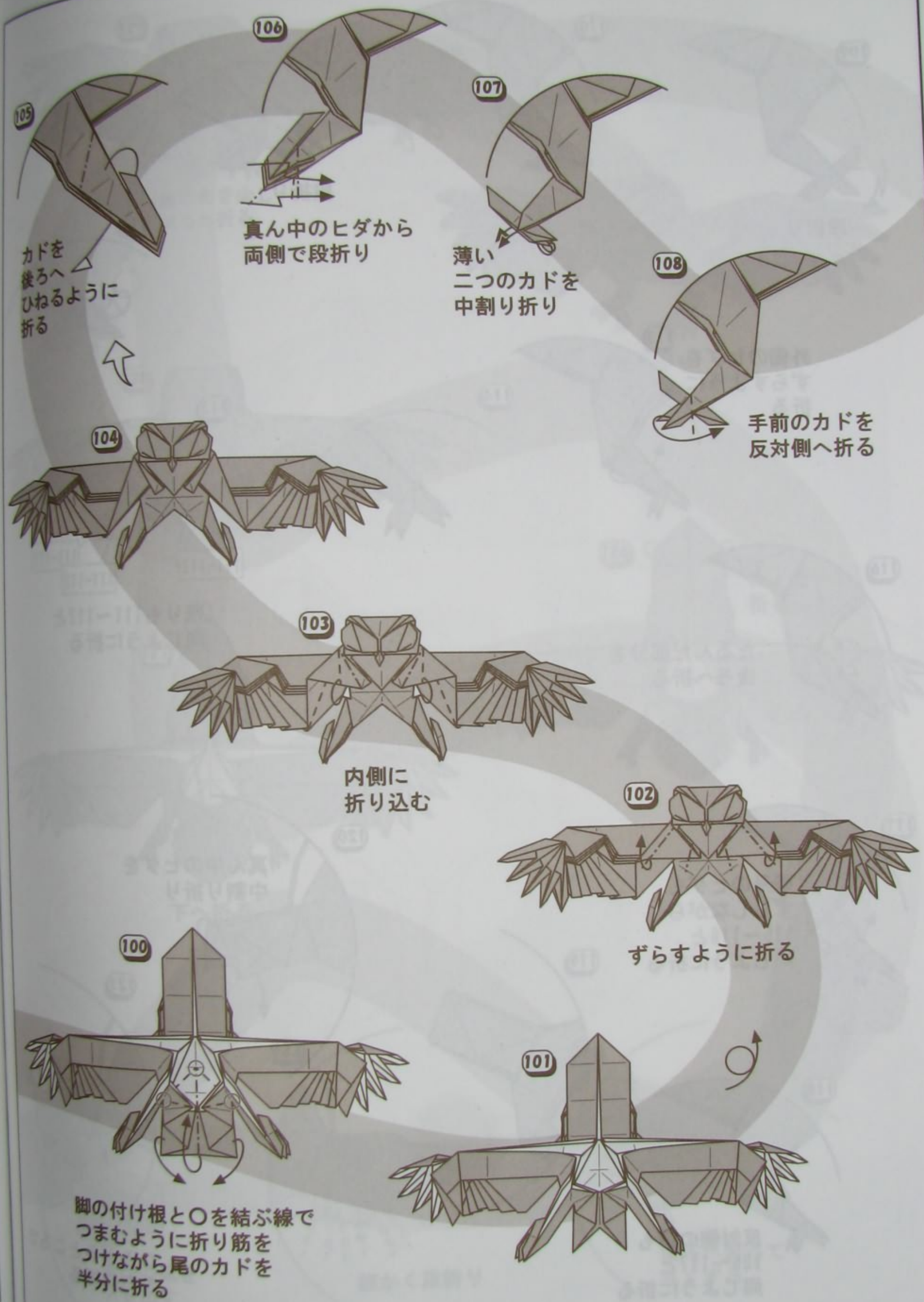


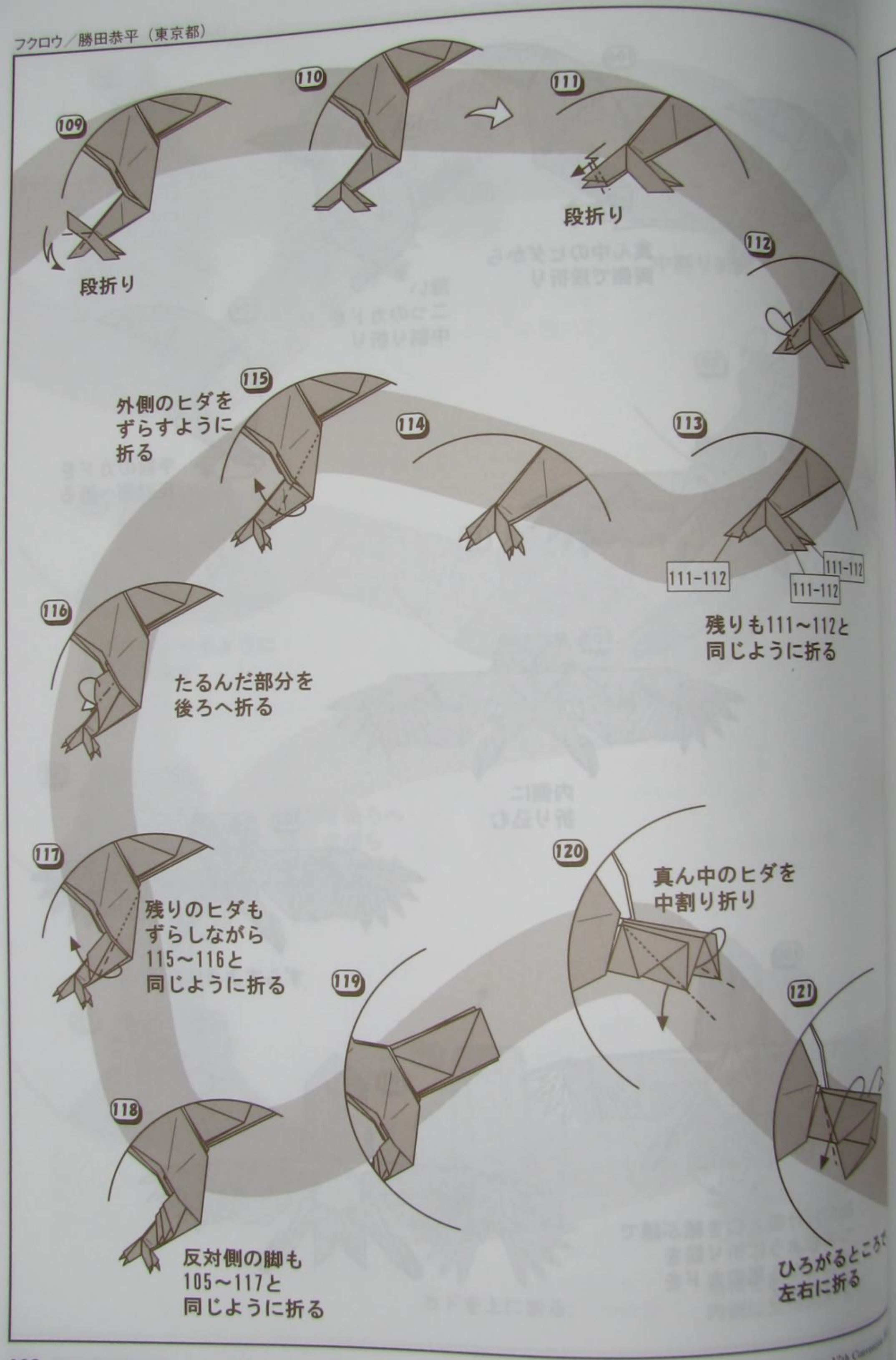

カドを上に折る

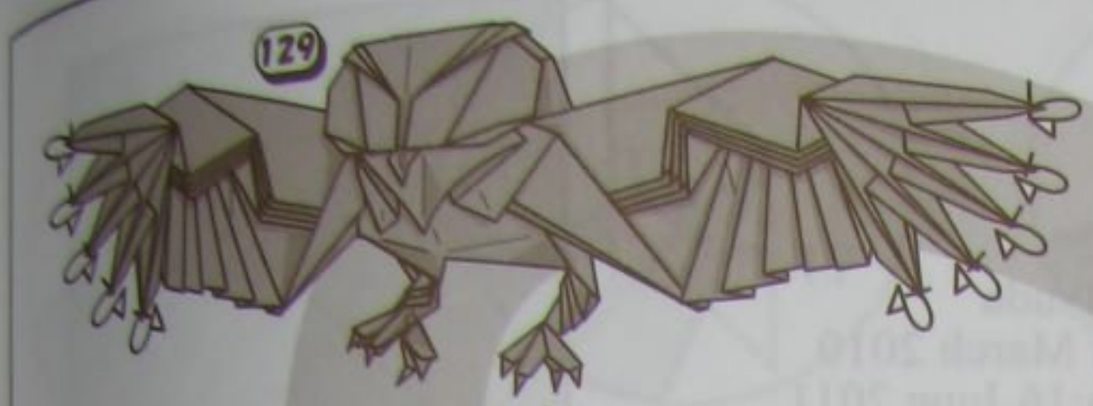


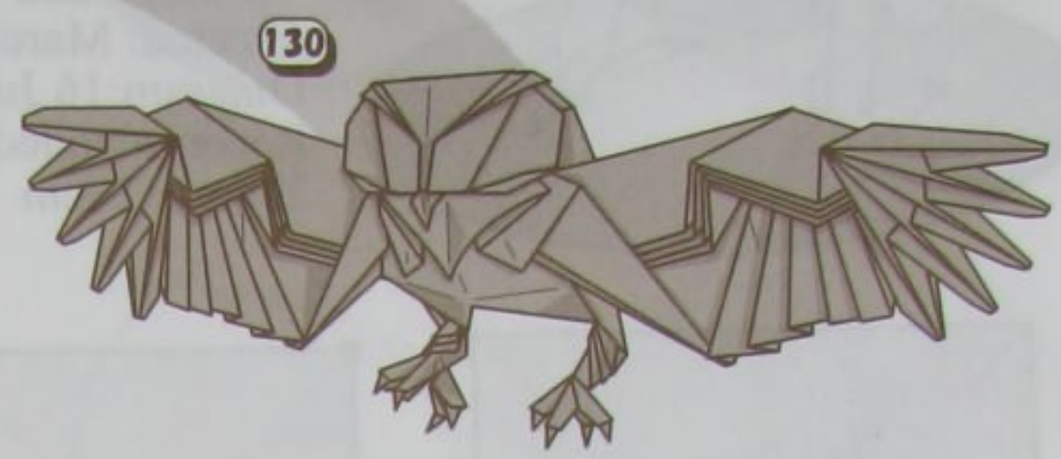

羽根を斜めに折る
内側は立体的になる

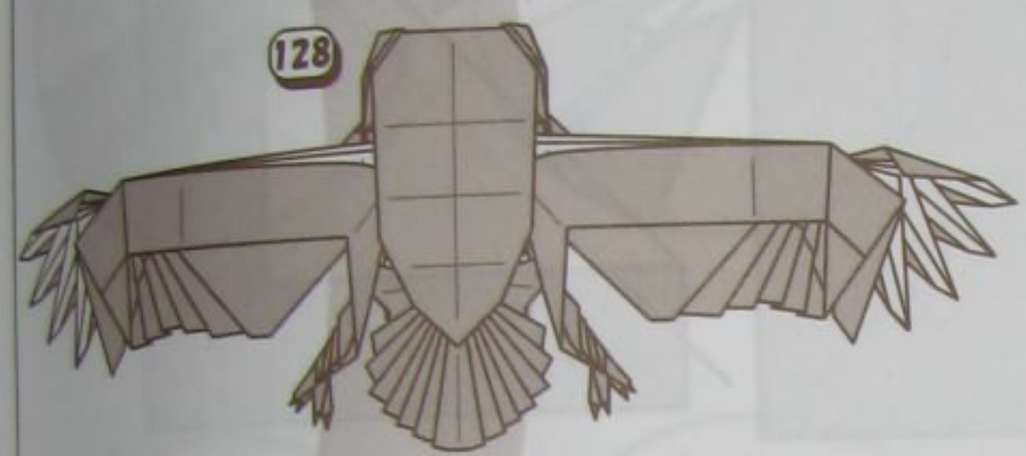

105
カドを
後ろへ
ひねるように
折る
106
真ん中のヒダから
両側で段折り
107
薄い
二つのカドを
中割り折り
108
手前のカドを
反対側へ折る
104
103
内側に
折り込む
102
ずらすように折る
100
101
脚の付け根と○を結ぶ線で
つまむように折り筋を
つけながら尾のカドを
半分に折る

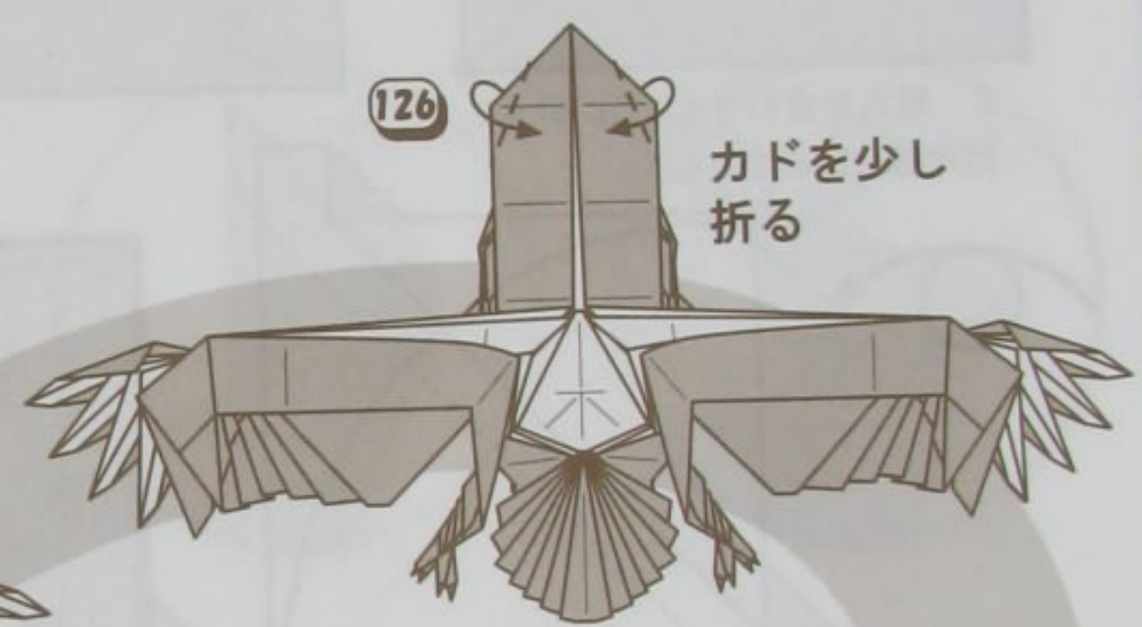
フクロウ／勝田恭平（東京都）

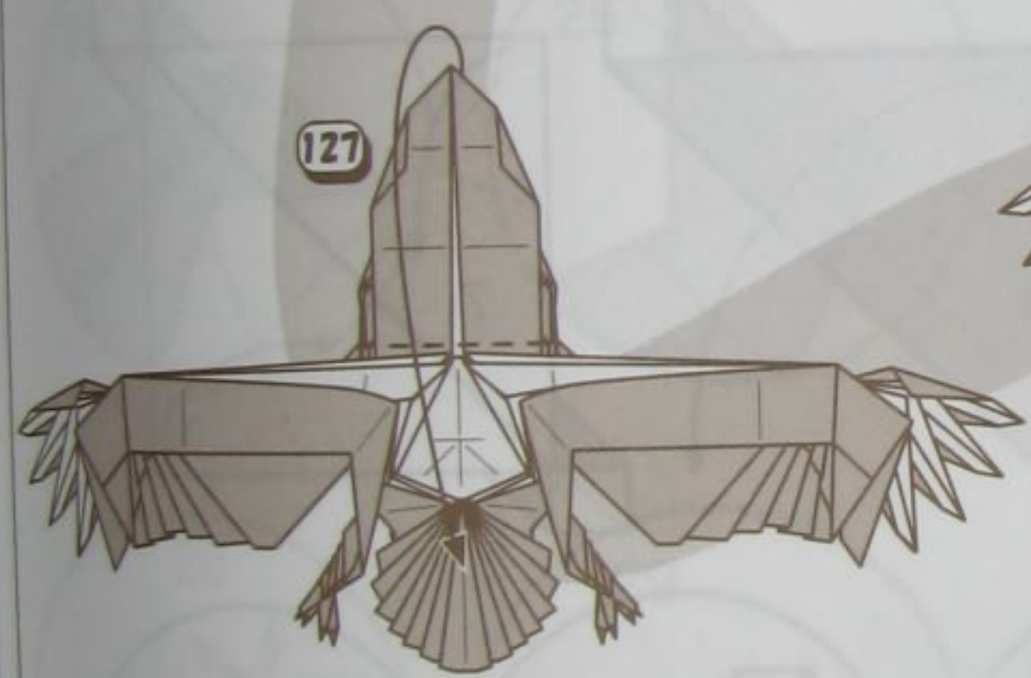



129
翼の先を少し
後ろへ折る


130
できあがり

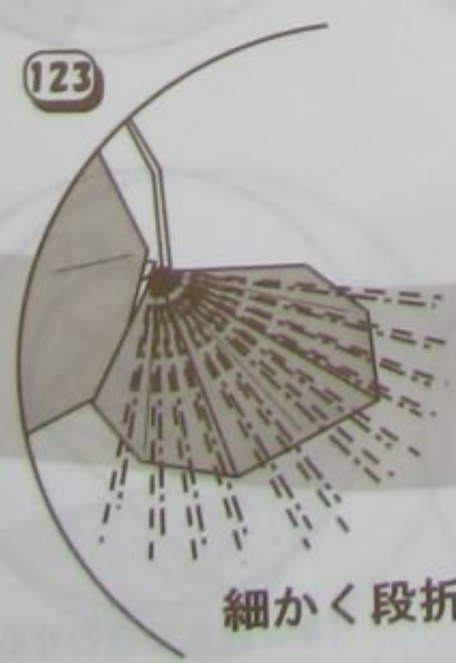

128

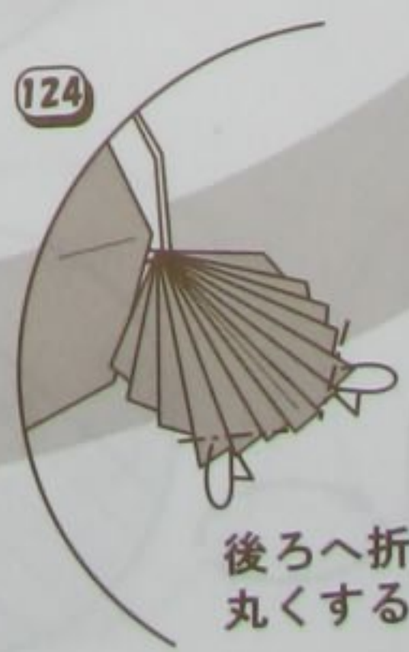

126
カドを少し
折る


127
下へ折る

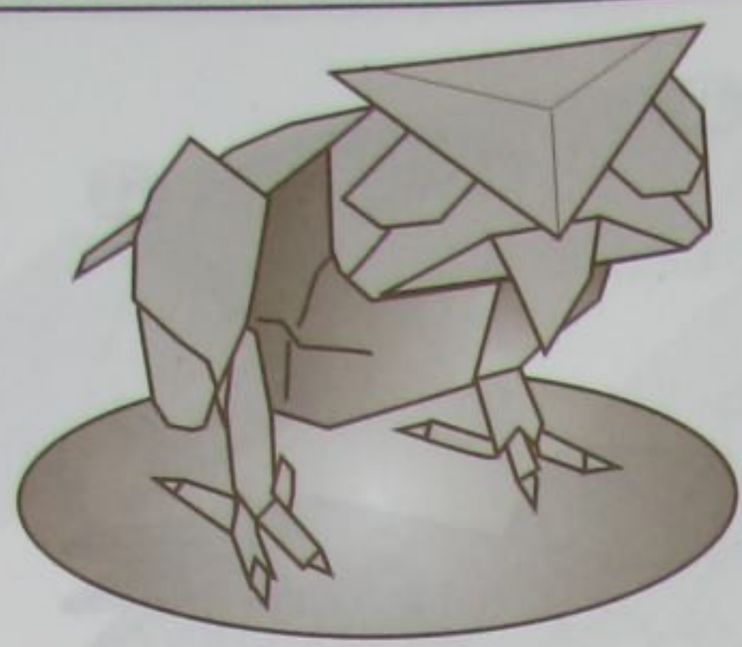
125

122
後ろの紙を
引き出す

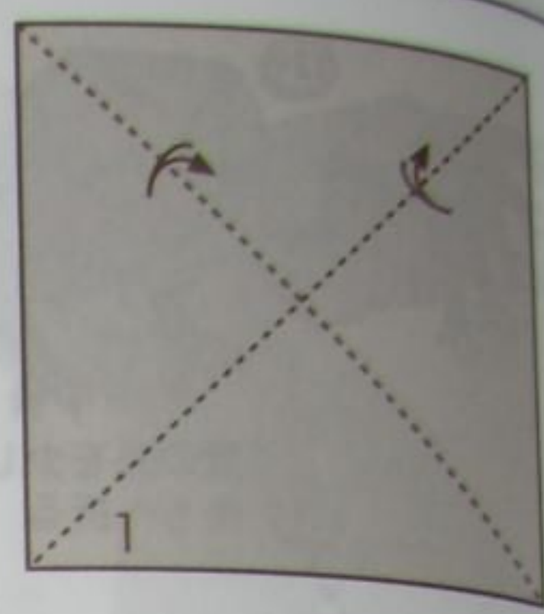

123
細かく段折り

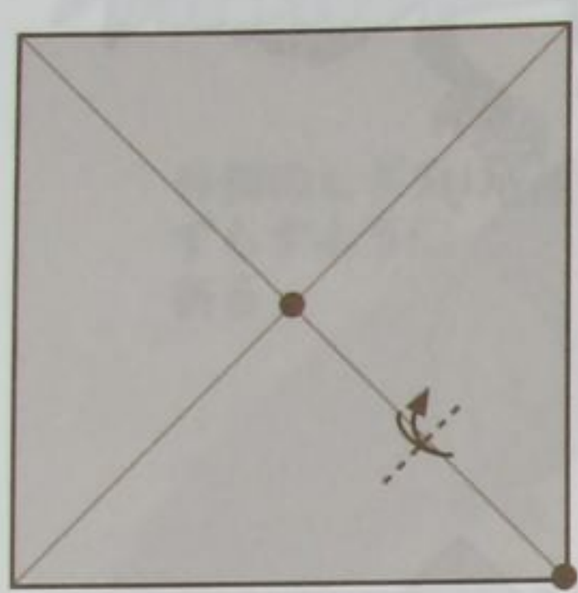

124
後ろへ折って
丸くする

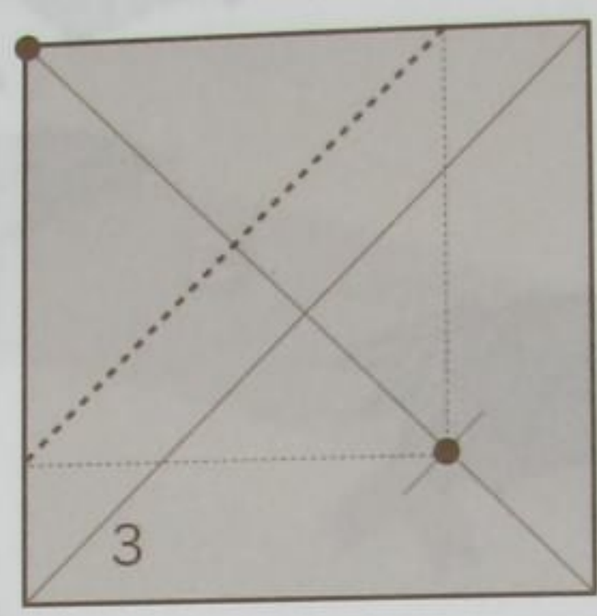
ふくろう２／津田良夫（東京都）

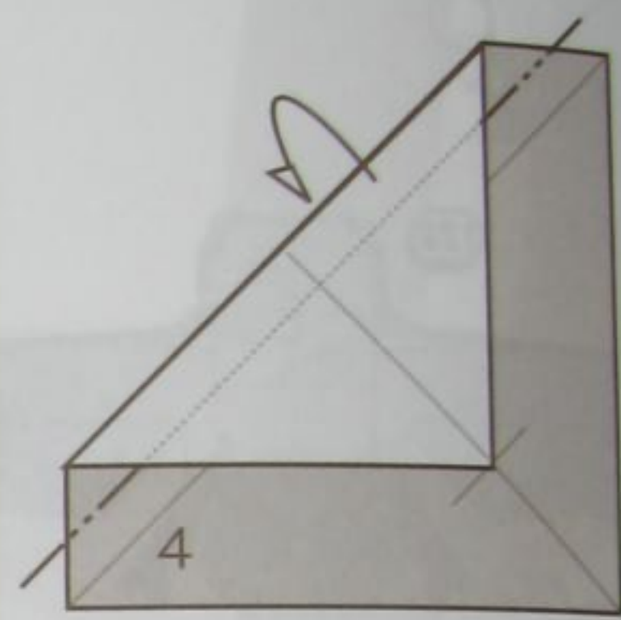


"Owl #2"
Yoshio Tsuda
Created: March 2010
Diagram:16 June 2011
Recommended paper size:
20cm x 20cm

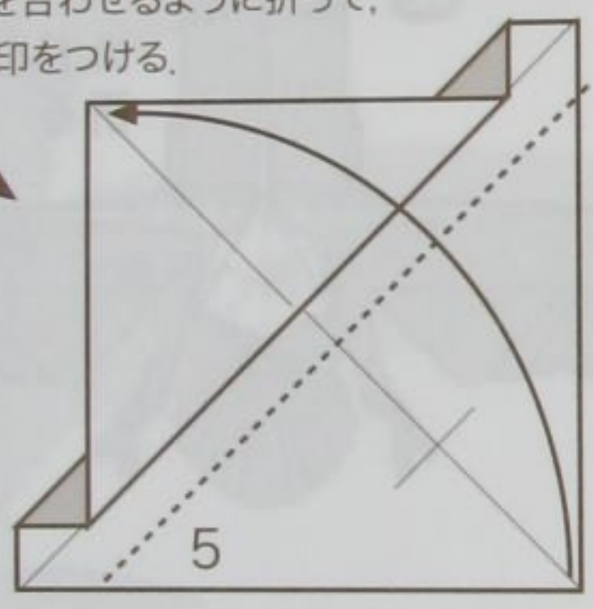


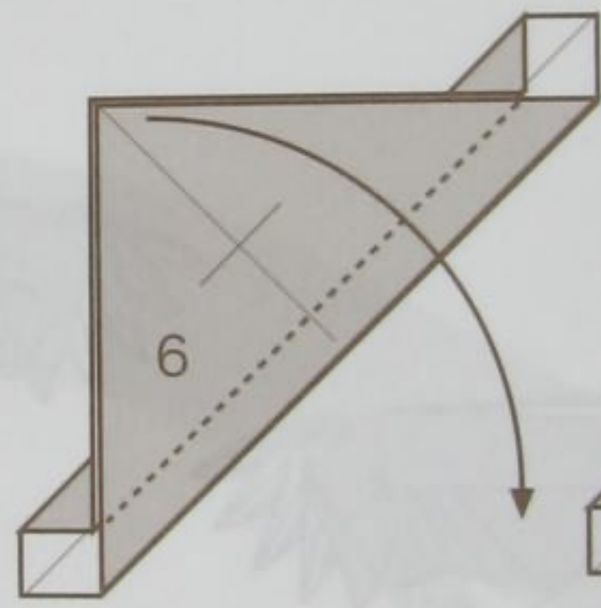



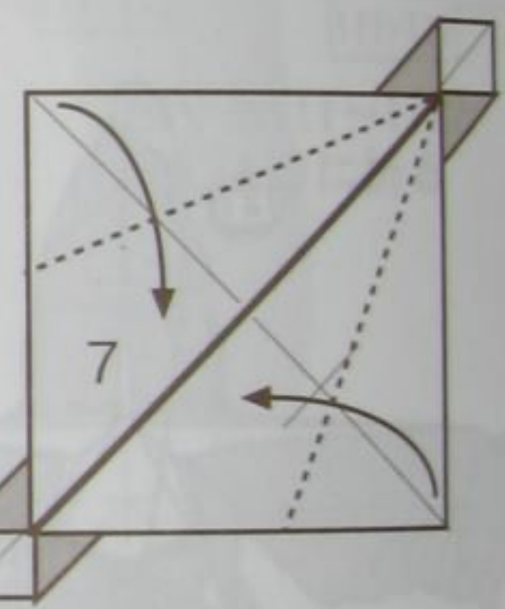


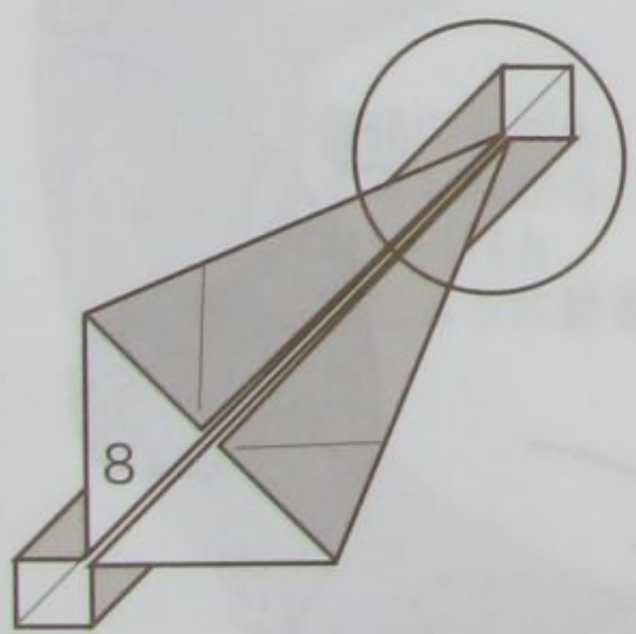



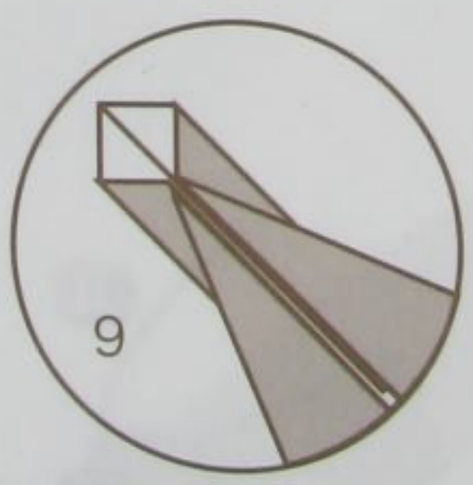

2　黒丸を合わせるように折って、
対角線に印をつける。

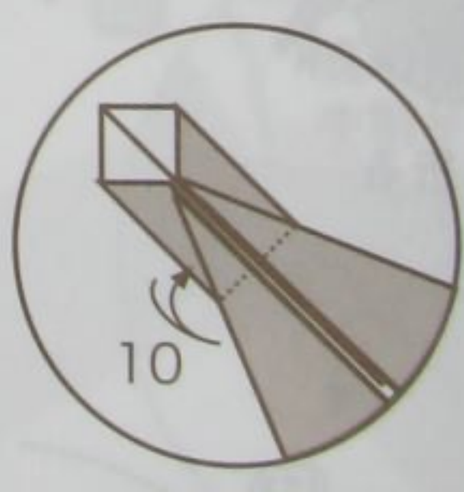


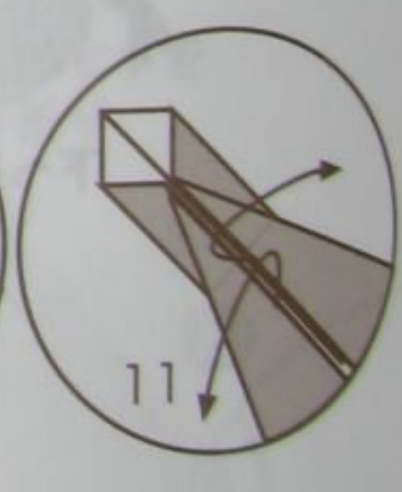



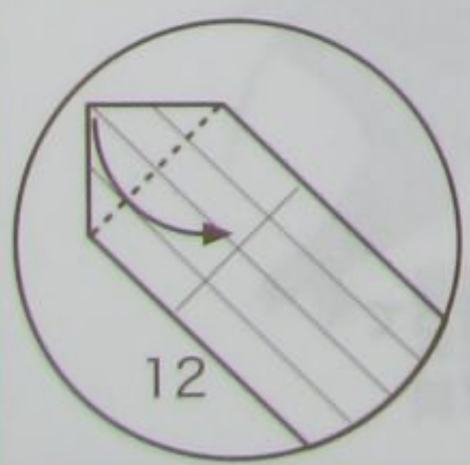



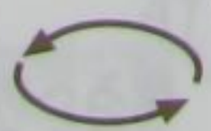



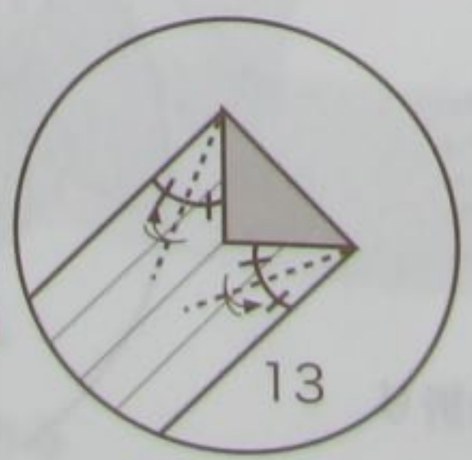



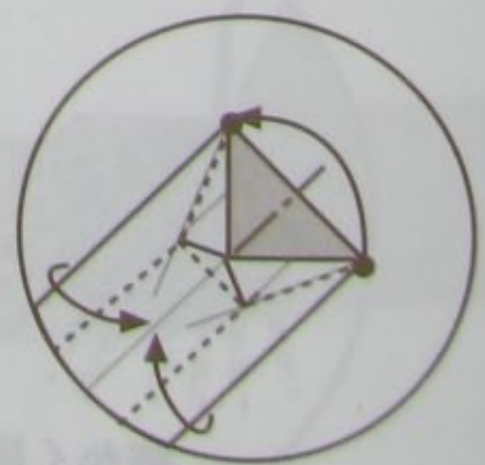



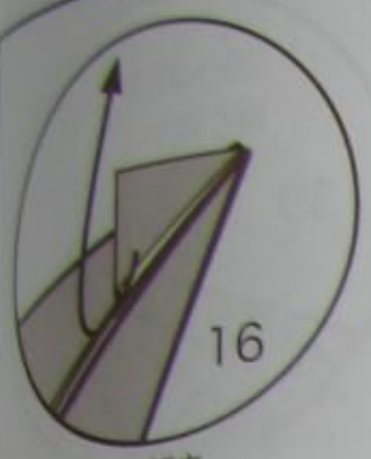



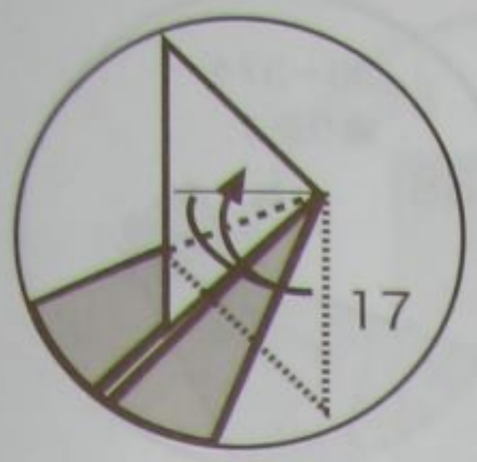


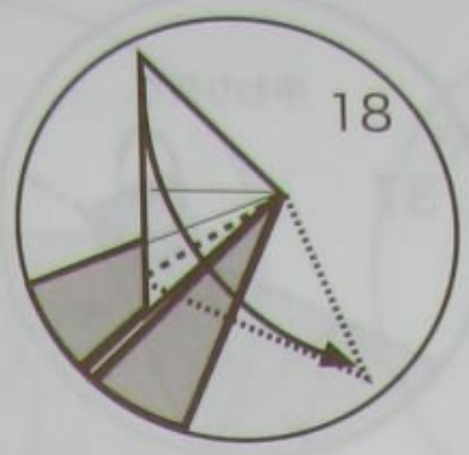



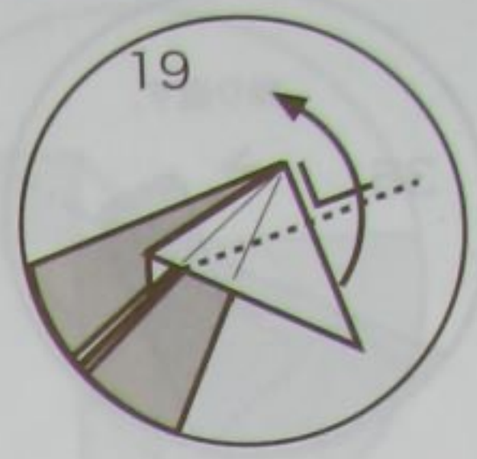
14　黒丸を合わせるように
折りたたむ。

15　立ち上がった三角
部分を横に倒す。

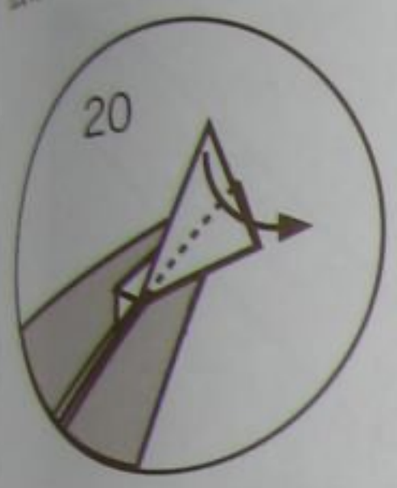


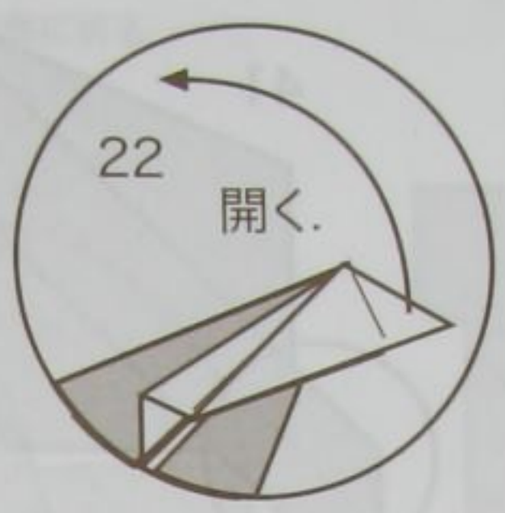



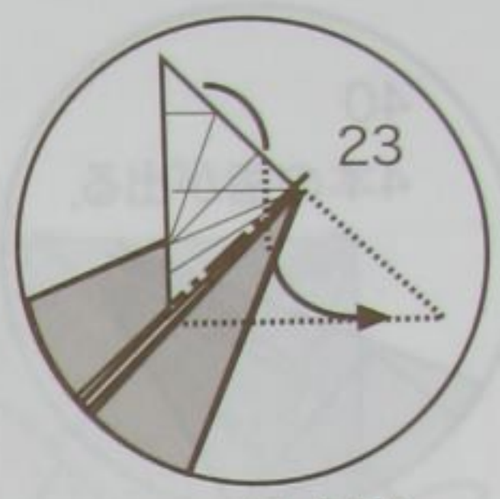



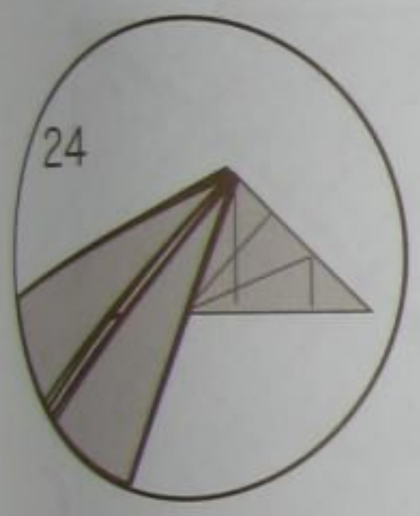

重なっている紙を
広げる.

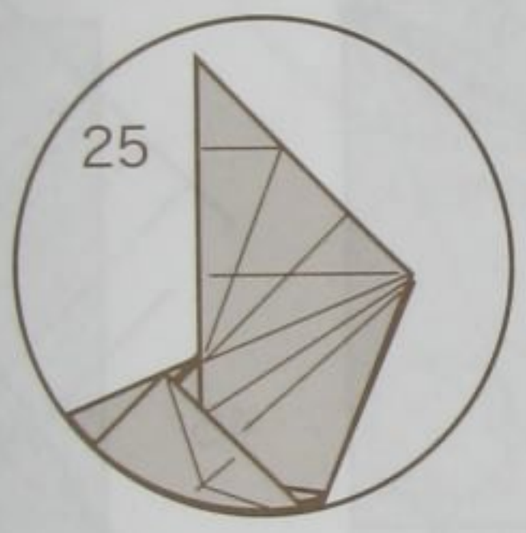


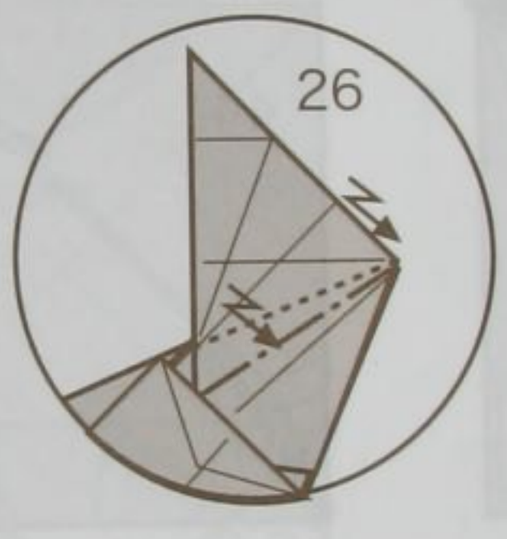


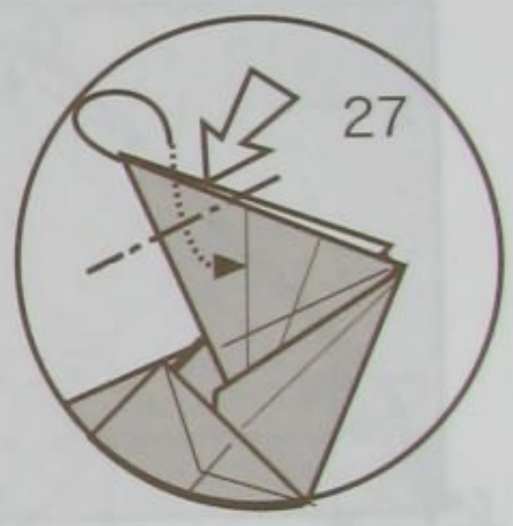



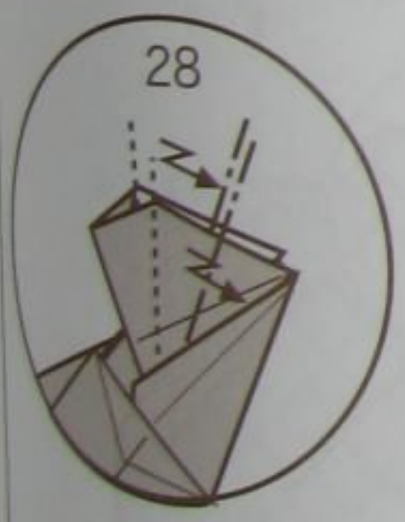

中わり折り

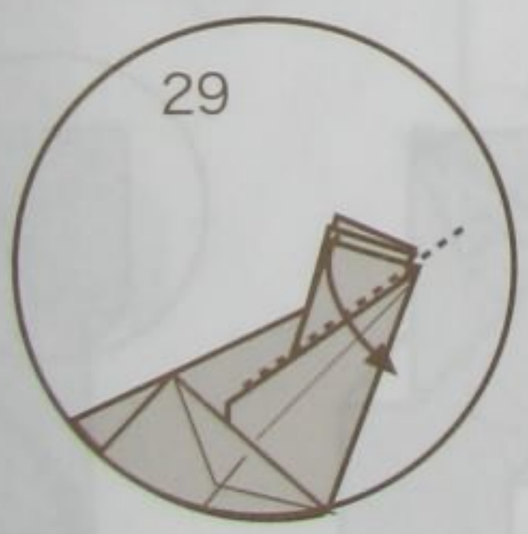


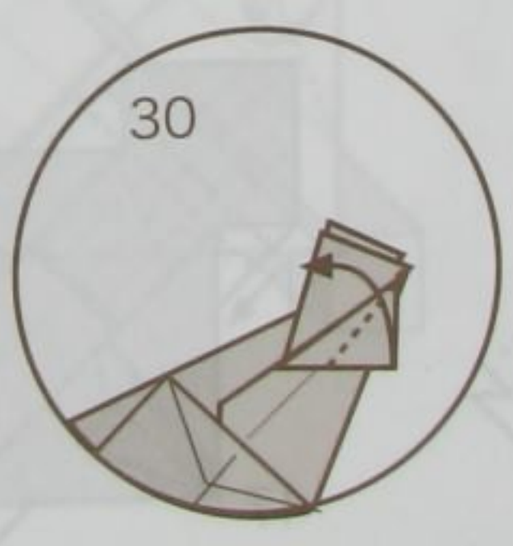



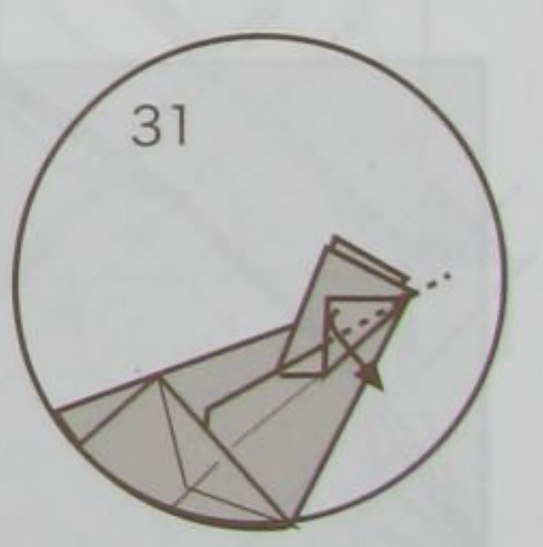



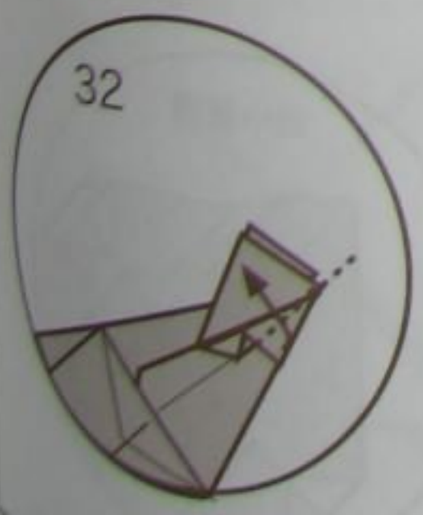



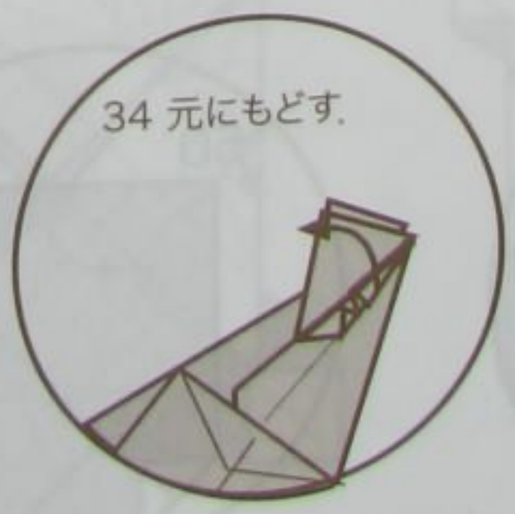



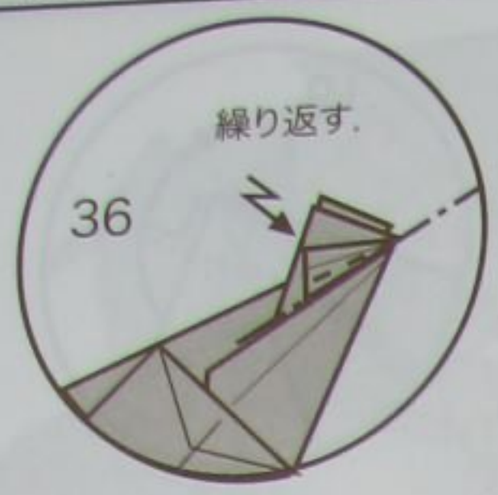



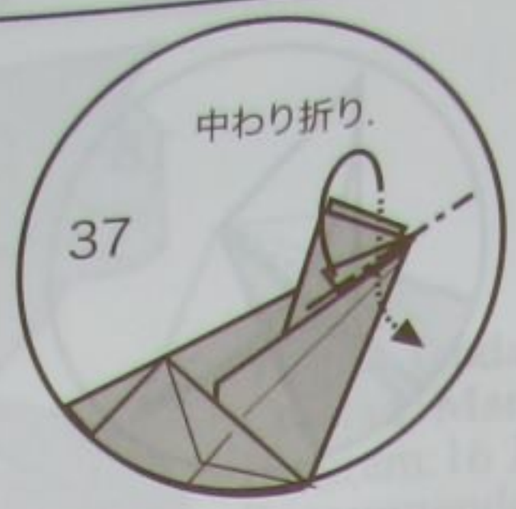



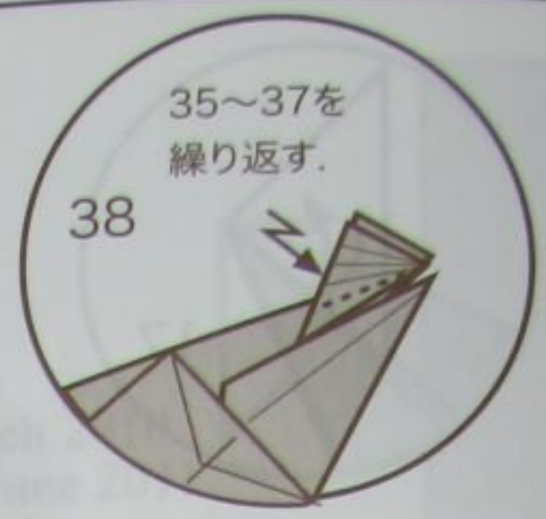



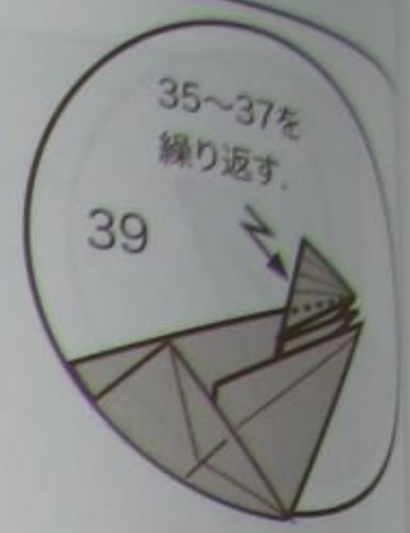



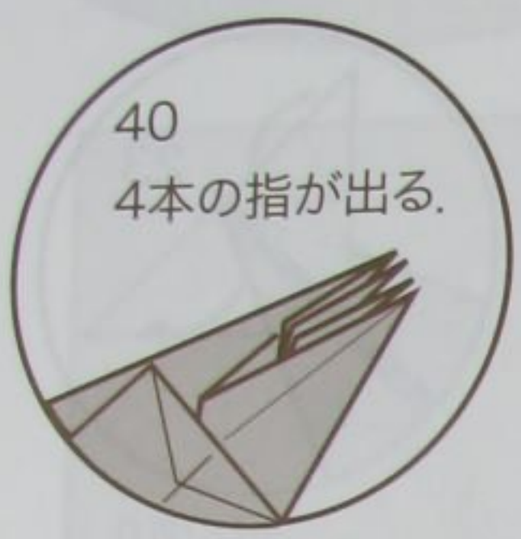


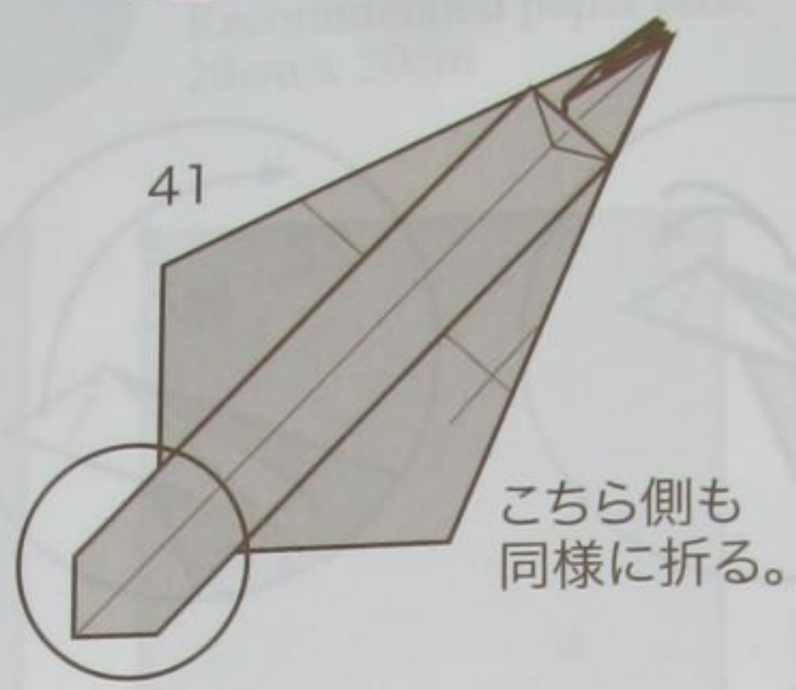

36
繰り返す.

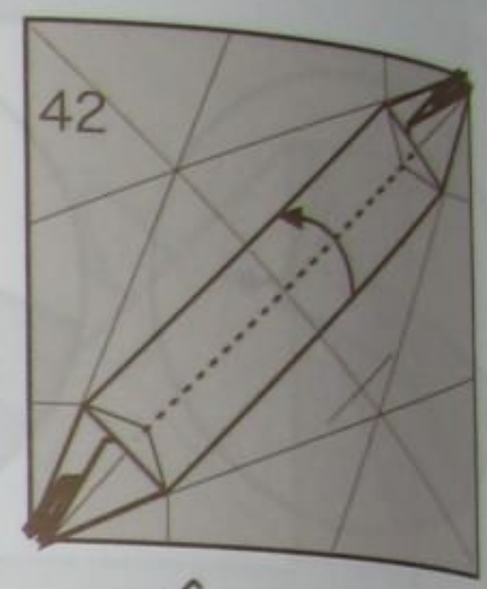

37
中わり折り.

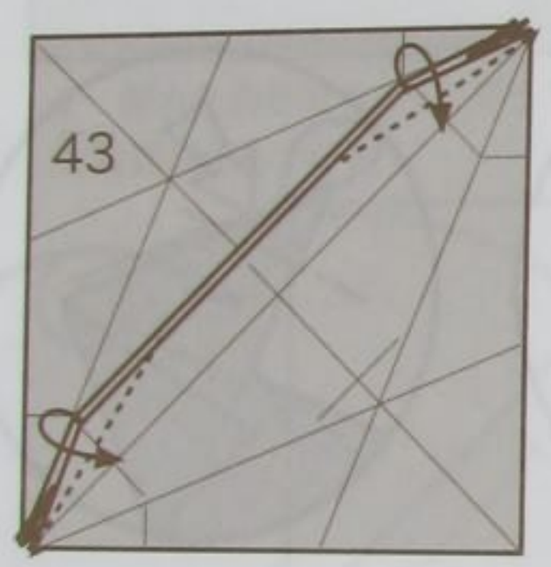

38
35～37を
繰り返す.

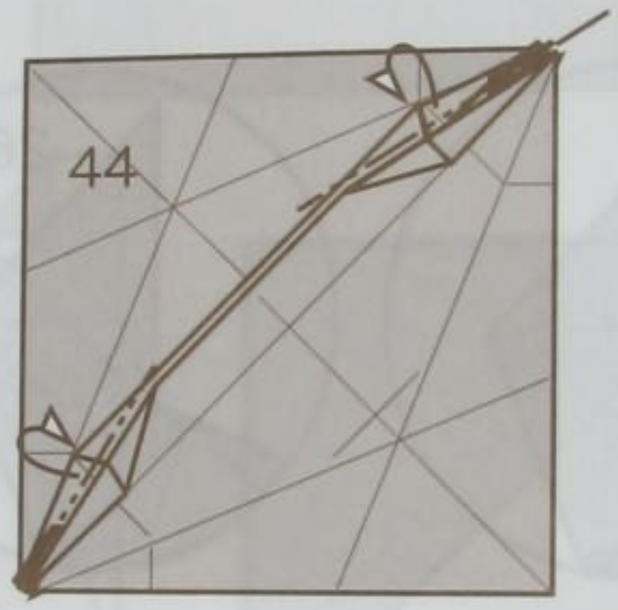

39
35～37を
繰り返す.

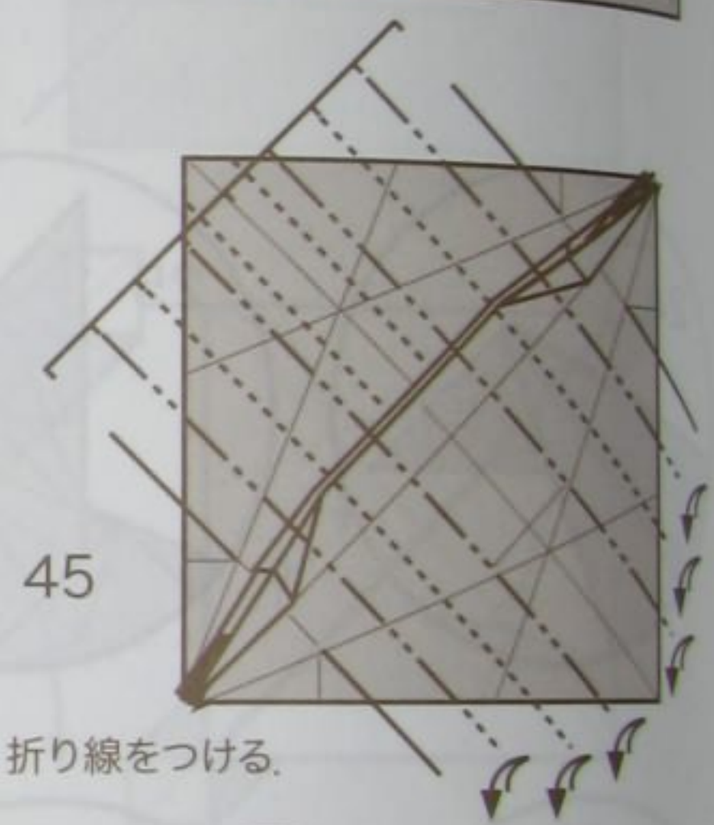

40
4本の指が出る.

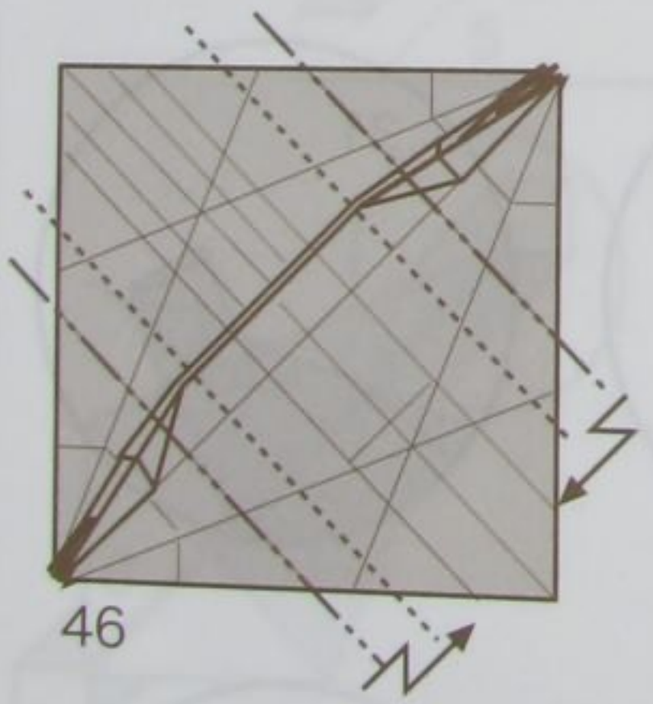

41
こちら側も
同様に折る。

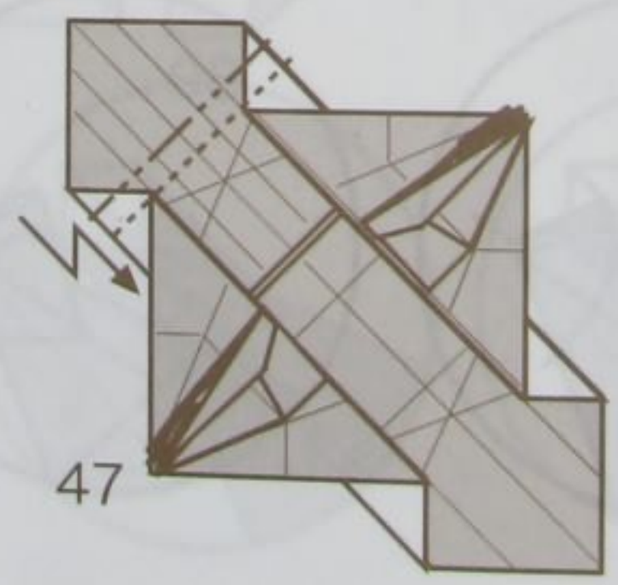

42

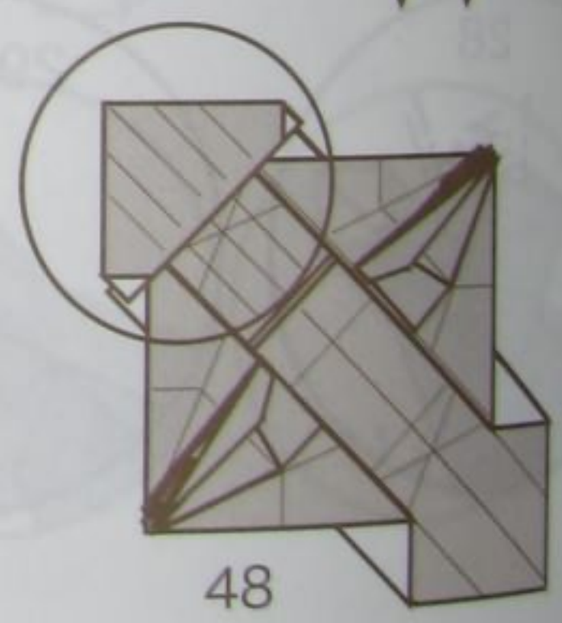

43

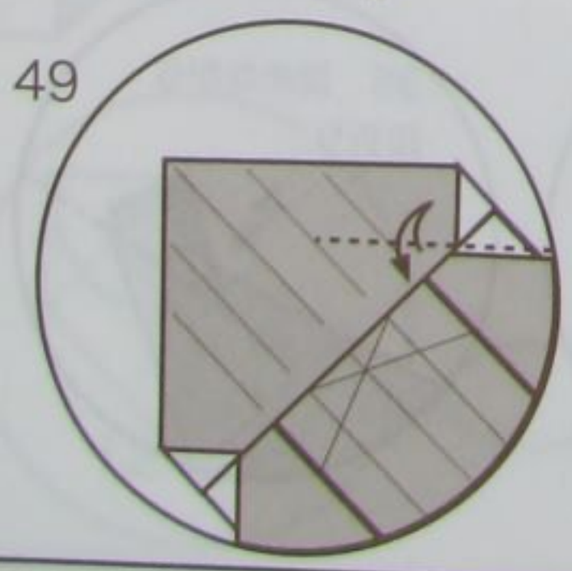

44

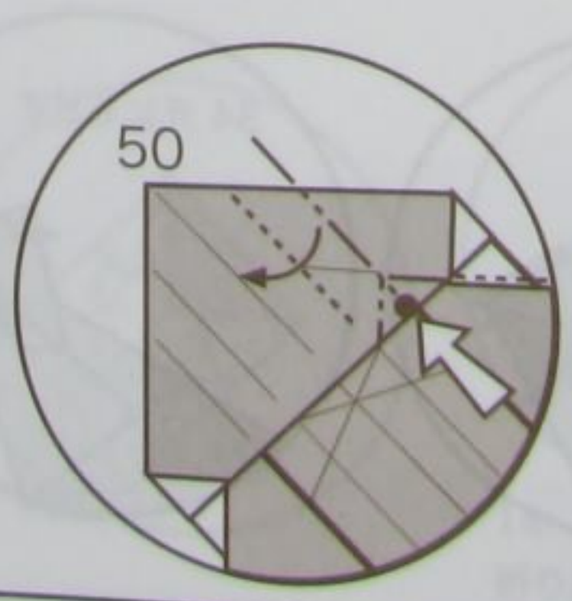

45
折り線をつける.

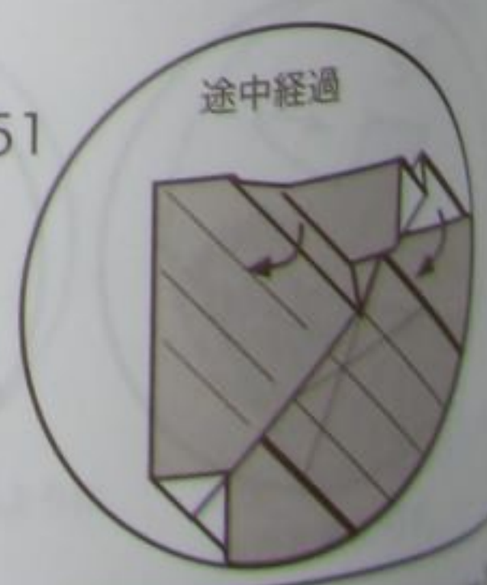

46

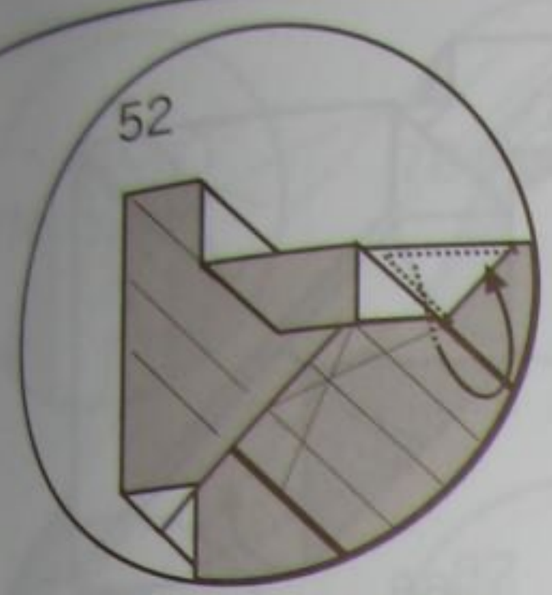

47


48

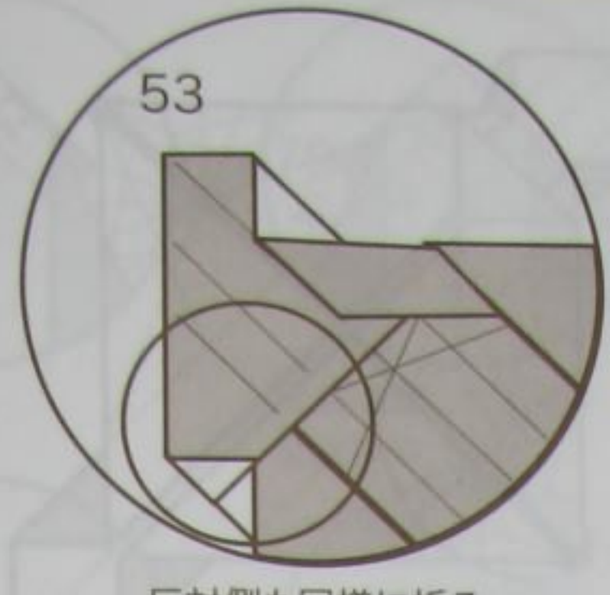

49


50
黒丸を押し
込むように
してたたむ.

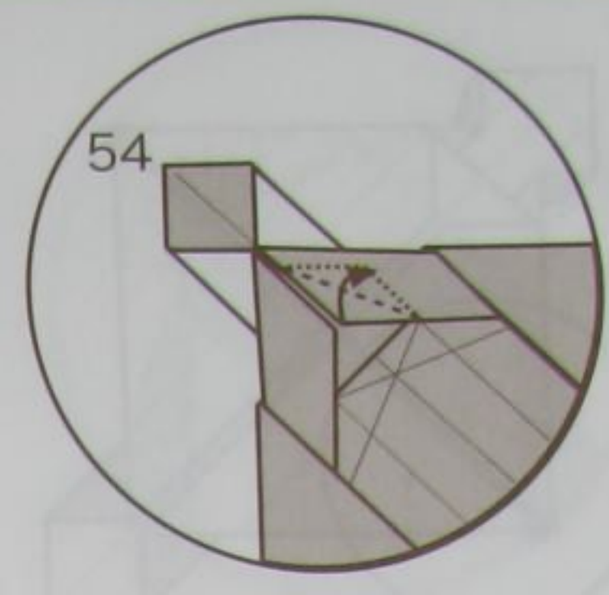

51
途中経過

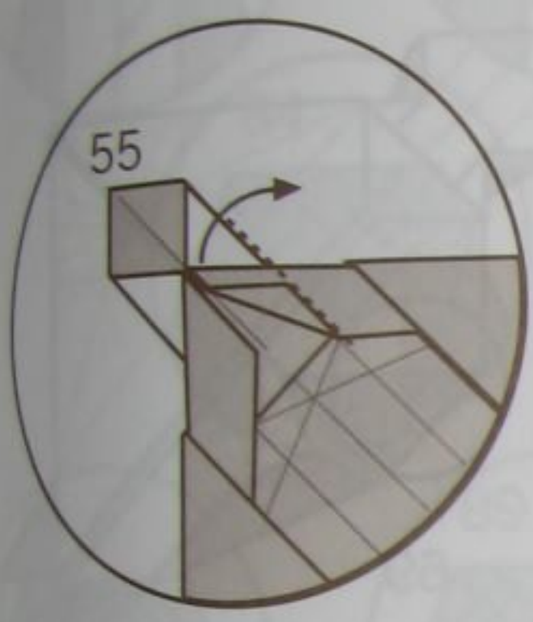


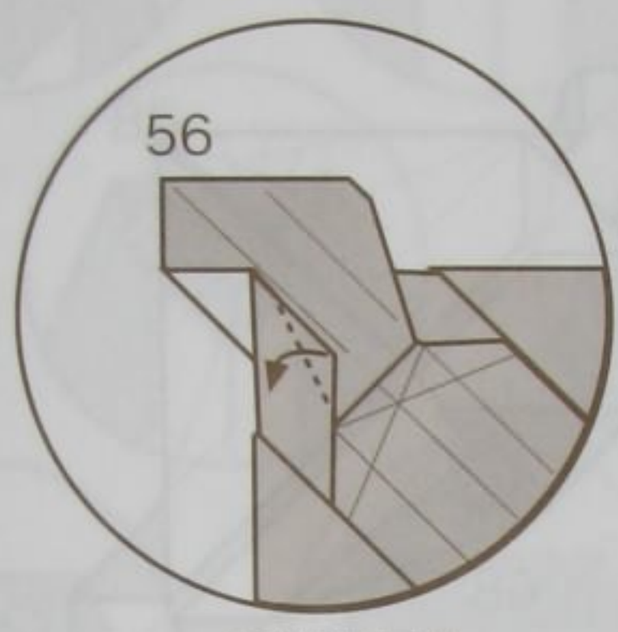

下の三角部分を手前に引き出し，
紙の裏面を裏返すように折りたたむ．



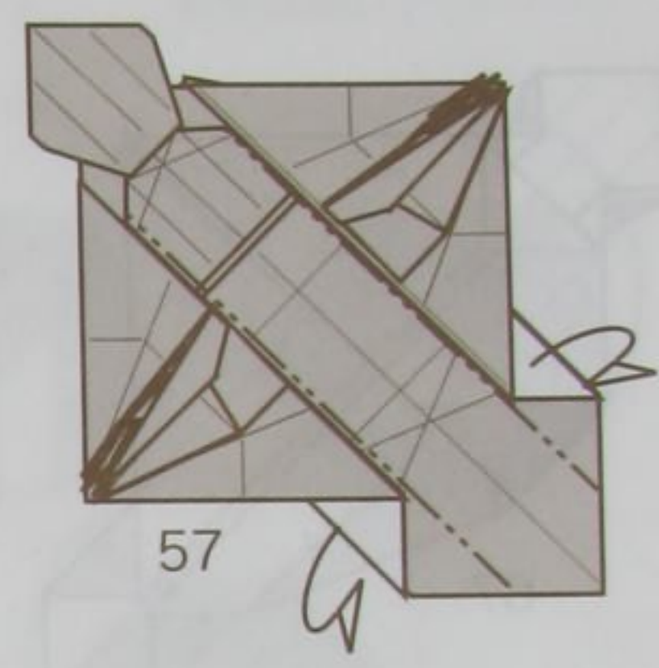

反対側も同様に折る．

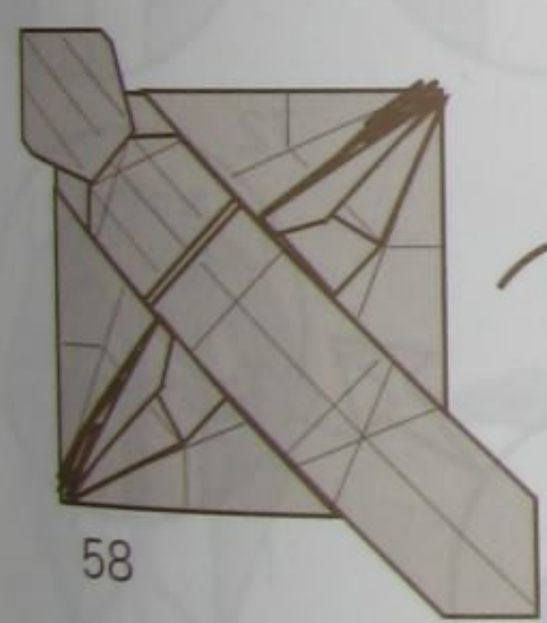


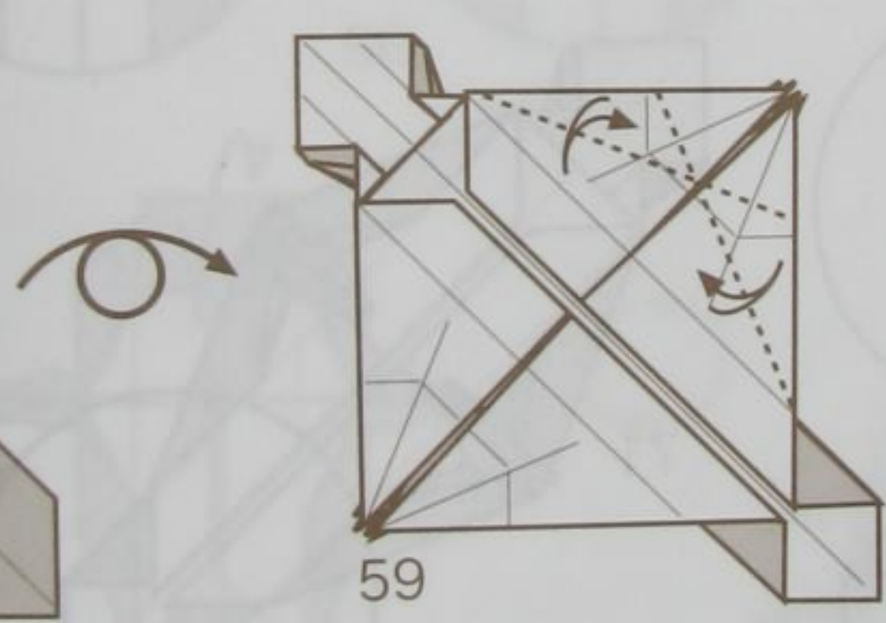



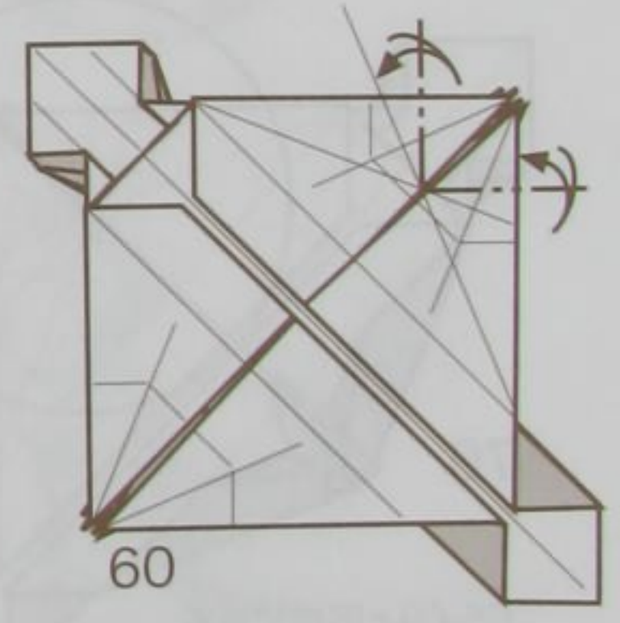



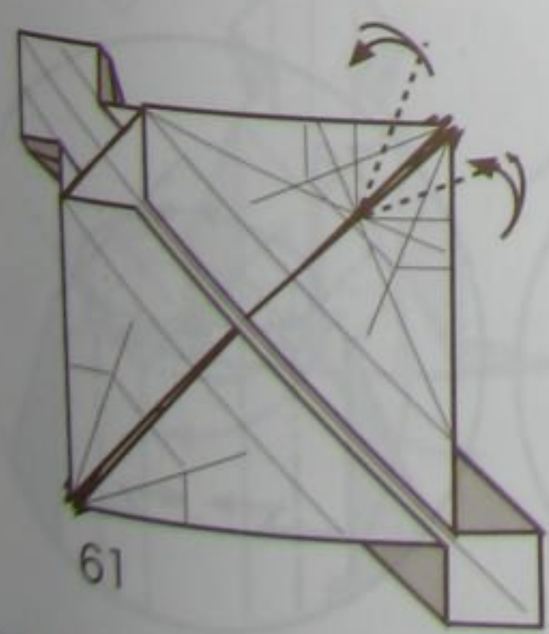

反対側も同様

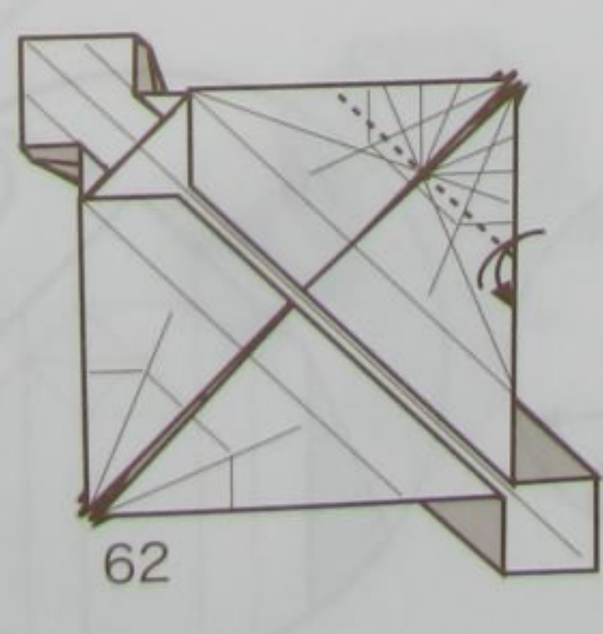


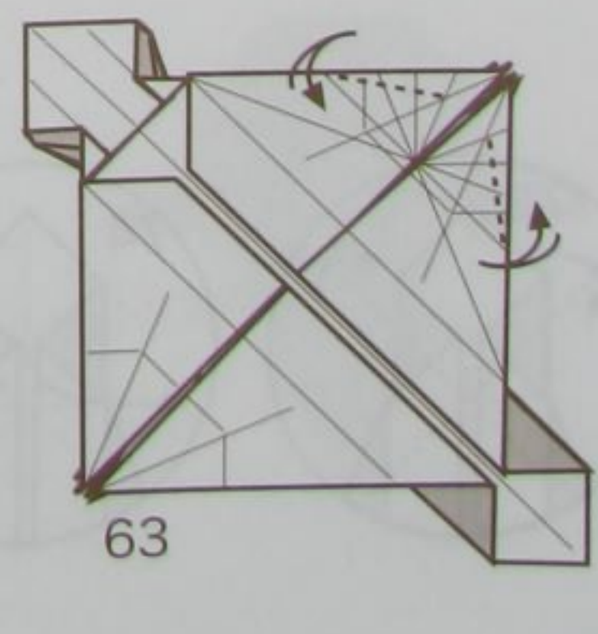



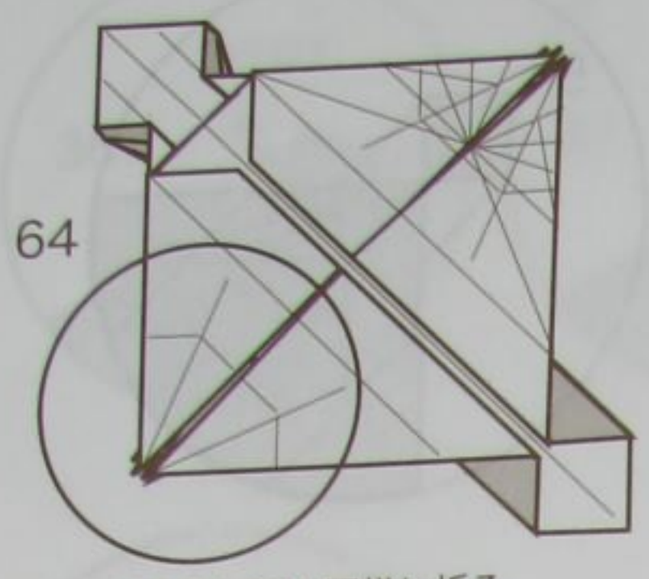



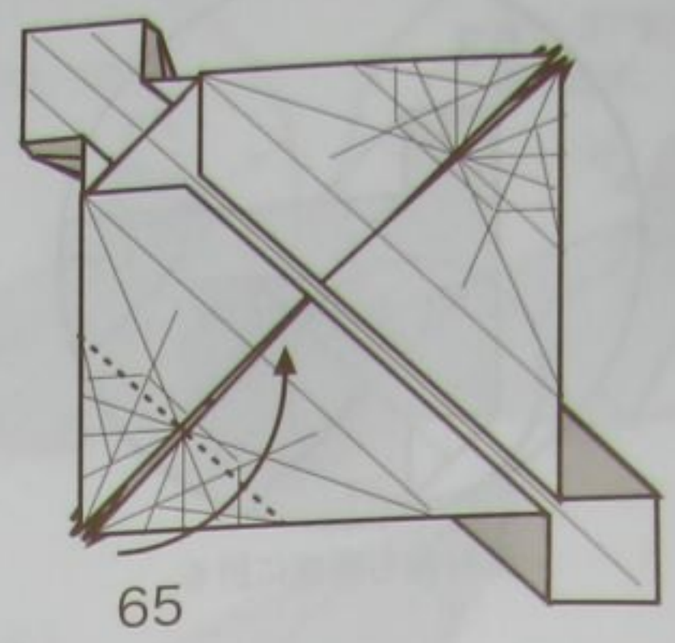



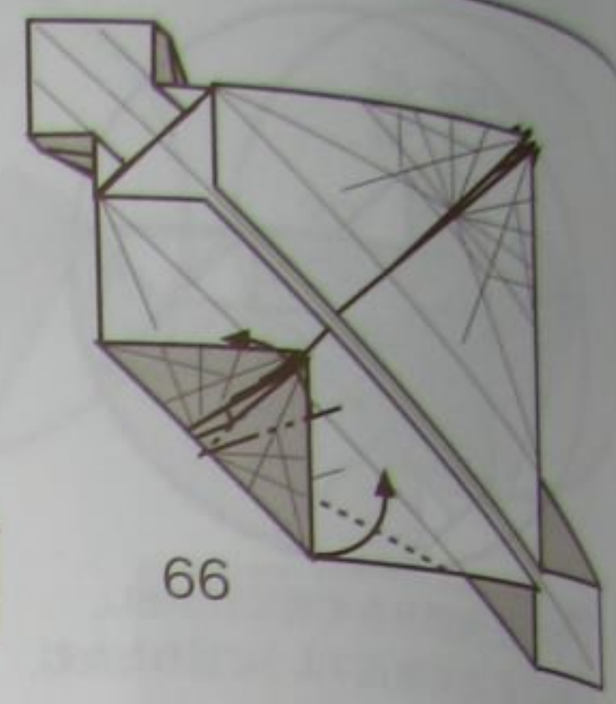



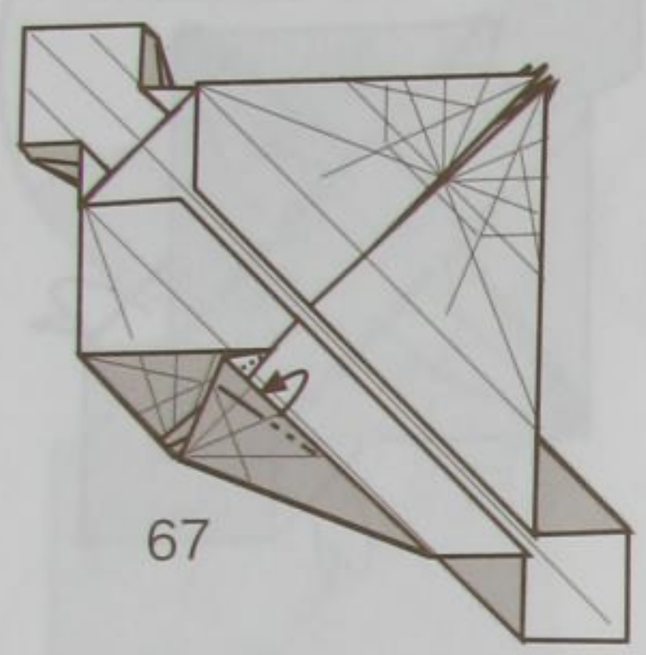



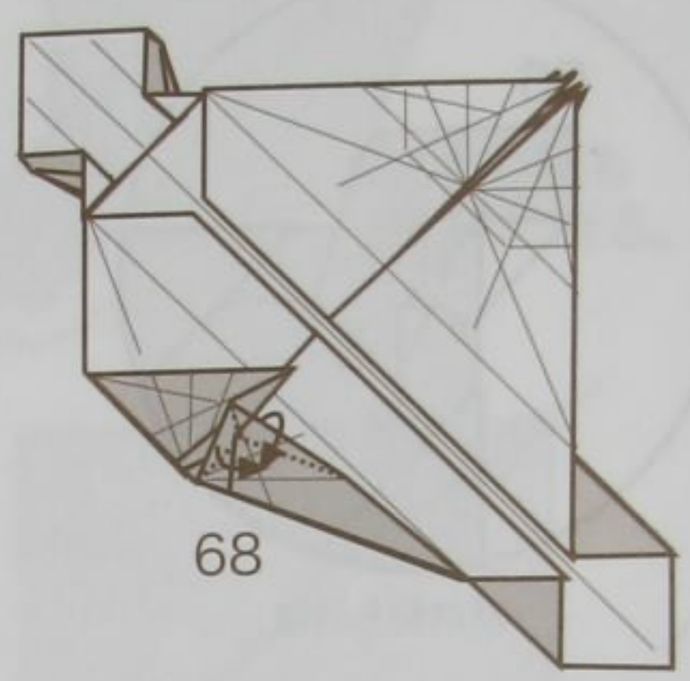


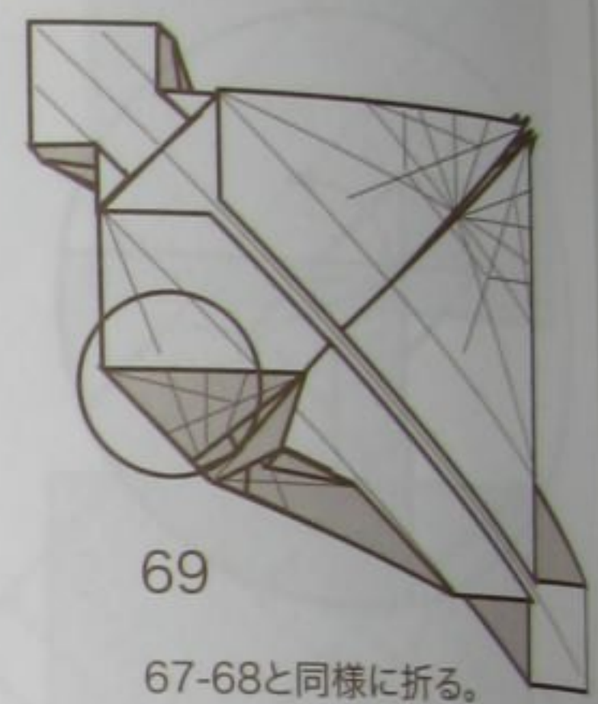

こちら側も59-63と同様に折る。



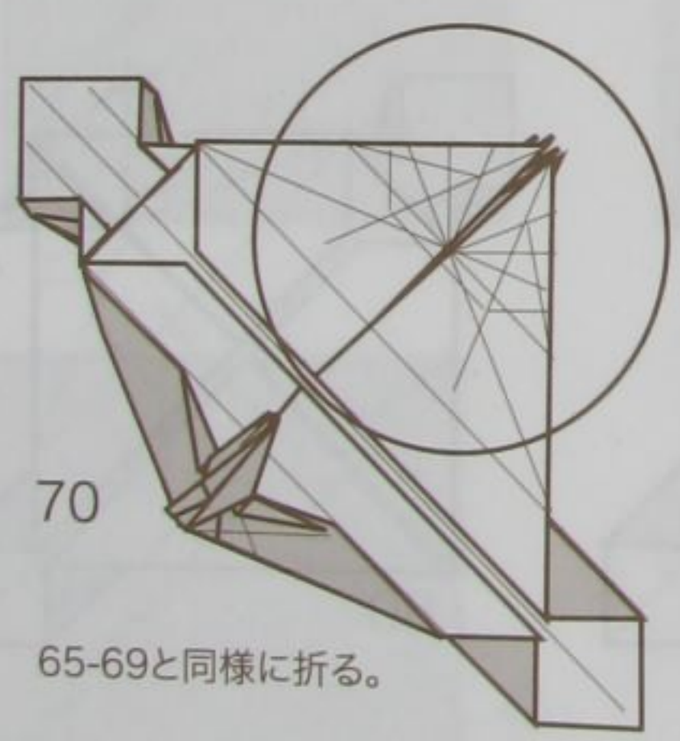



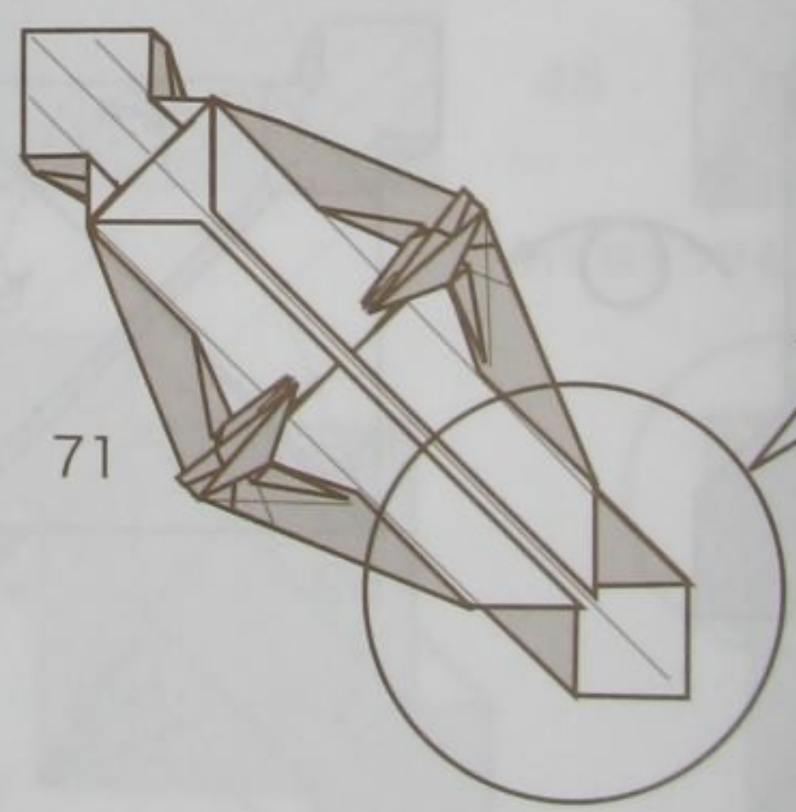



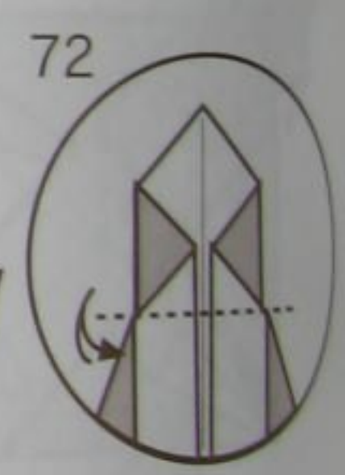



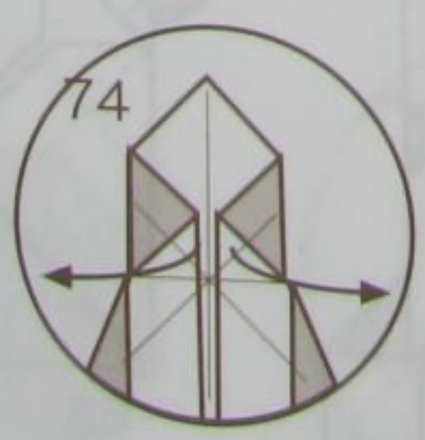

67-68と同様に折る。

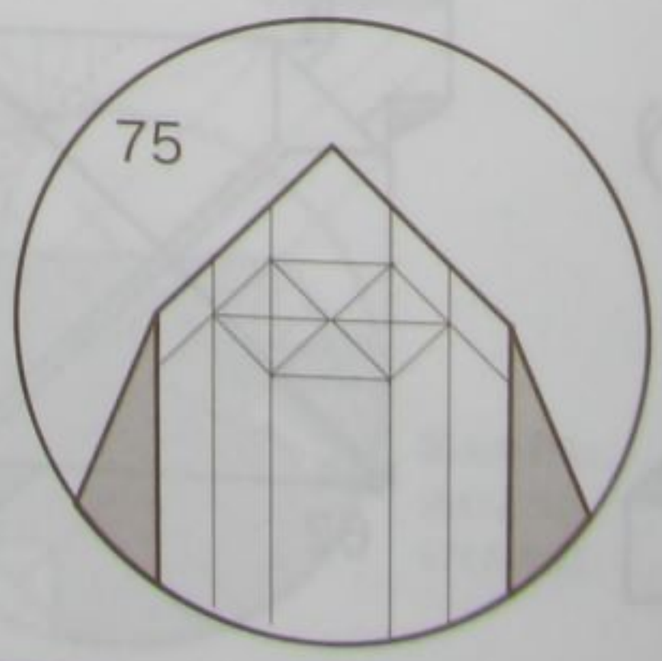


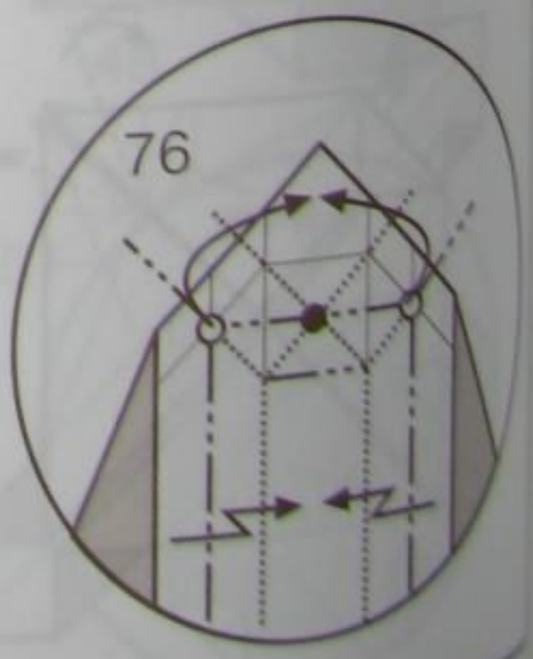

65-69と同様に折る。

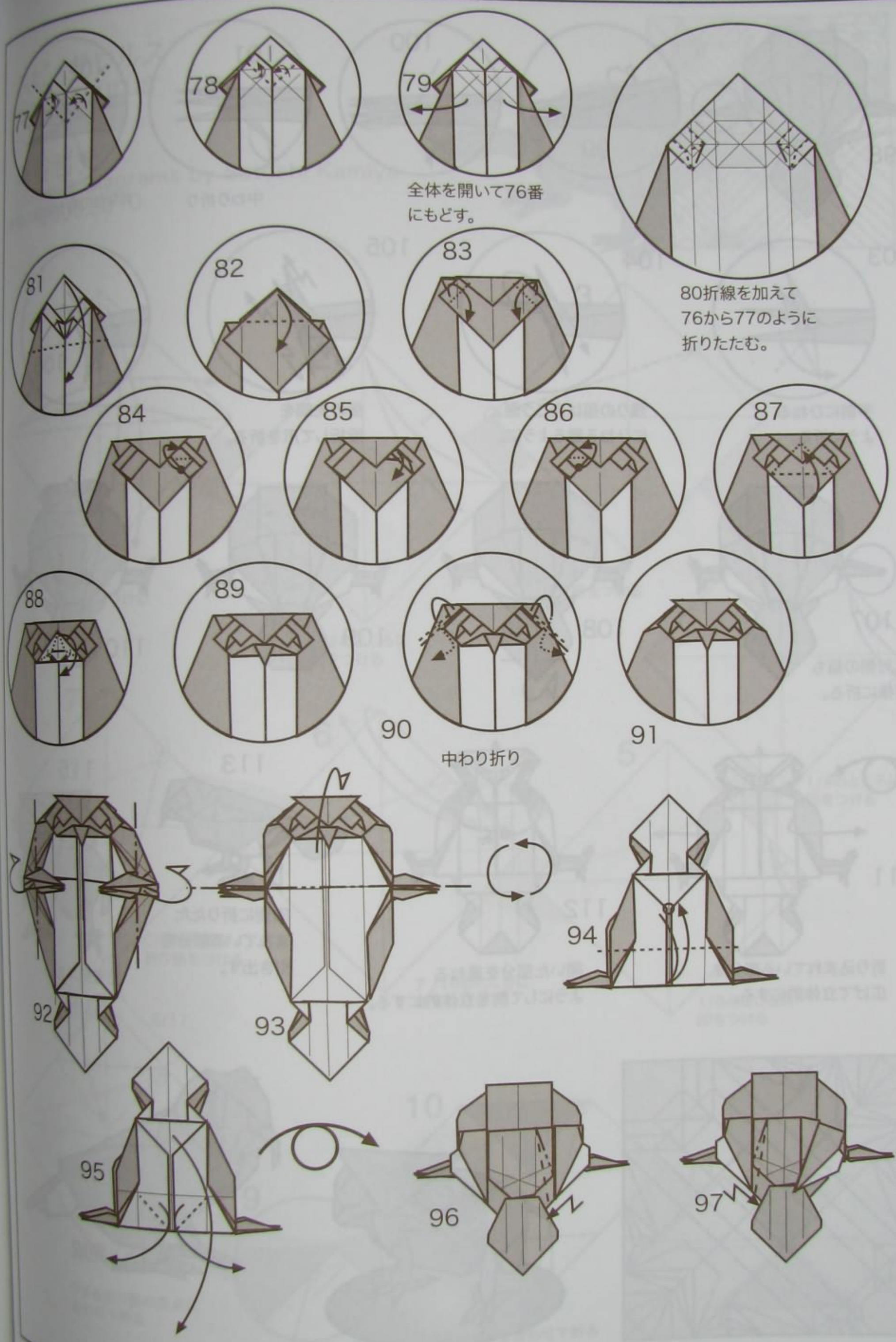





77
78
79
全体を開いて76番
にもどす。
80折線を加えて
76から77のように
折りたたむ。
81
82
83
84
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86
87
88
89
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中わり折り
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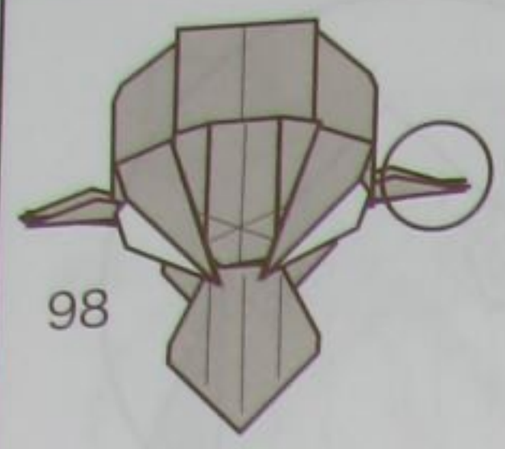
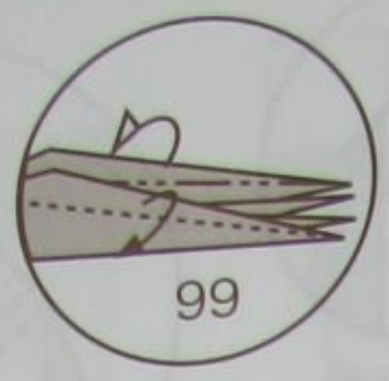
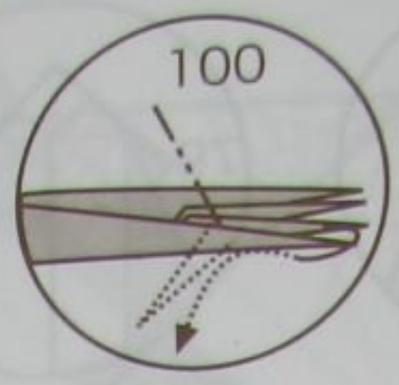
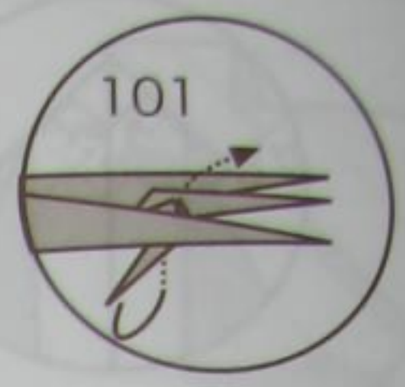
97

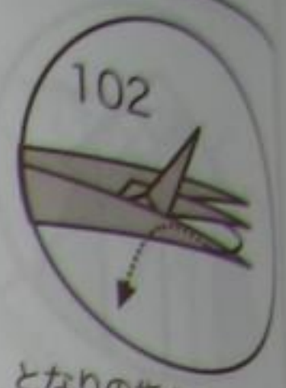

98


99

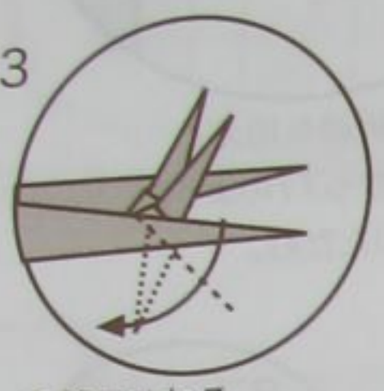

100


101

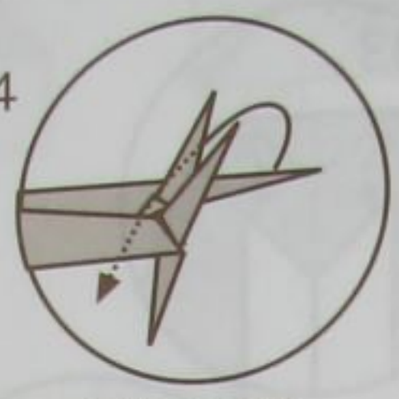
中わり折り


102

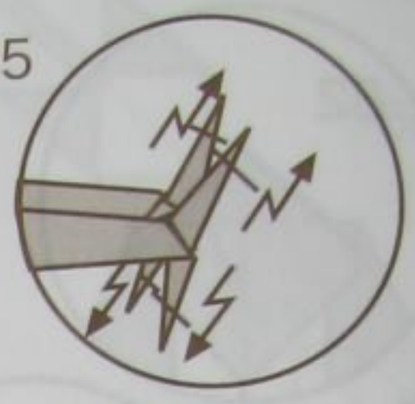
となりの指も同様に折る


103

手前にひねる
ように折る。


104

残りの指は向こう側
にひねる載るように。

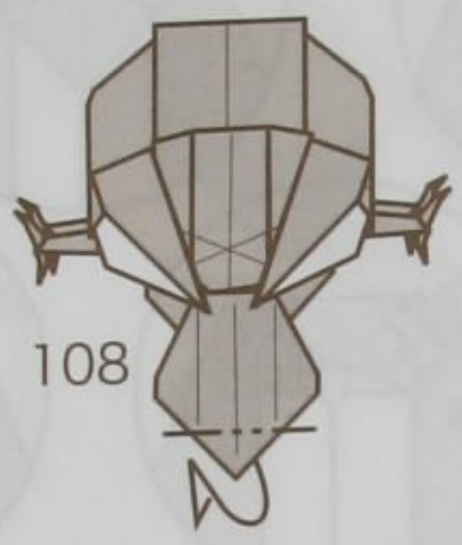

105

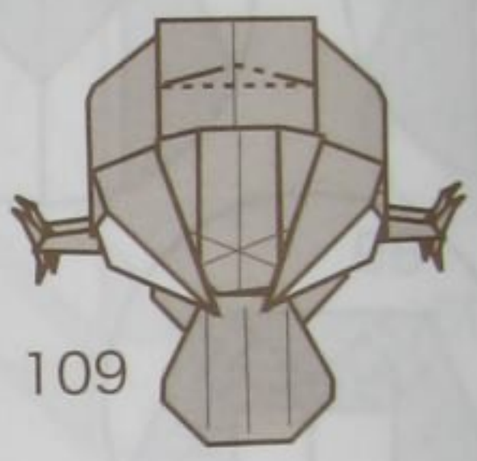
指の先端を
段折して爪を折る。

106

107

反対側の指も
同様に折る。


108


109

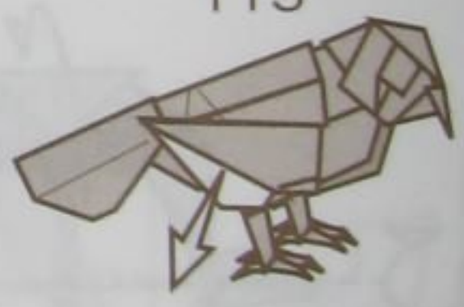
110

111

折り込まれている部分を
広げて立体的にする。

112

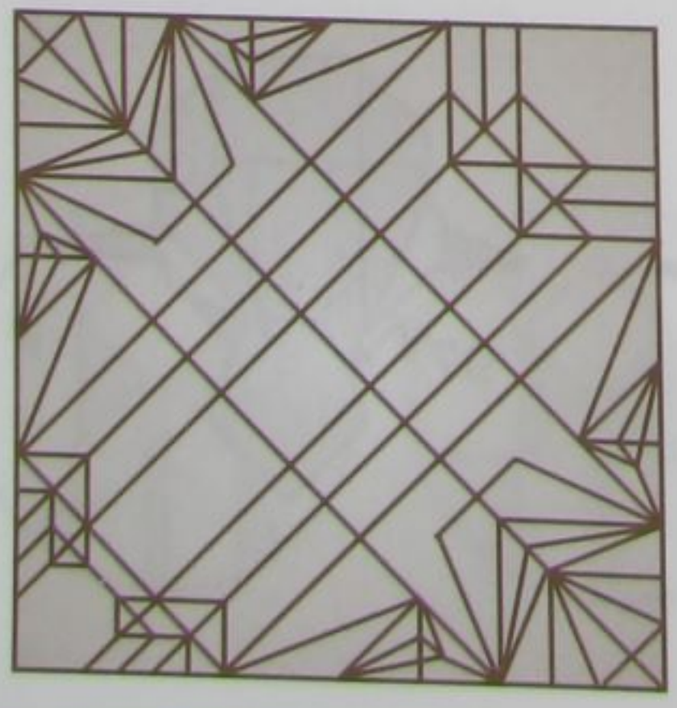
開いた部分を重ねる
ようにして胸を立体的にする。


113

内側に折りたた
まれている部分を
引き出す。

115

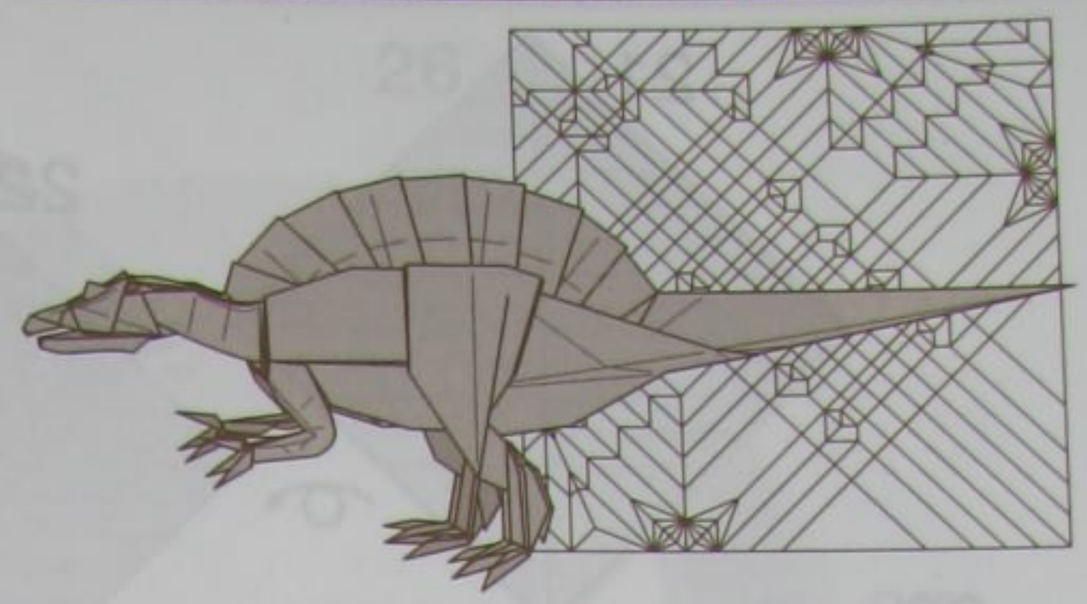
形を整える。

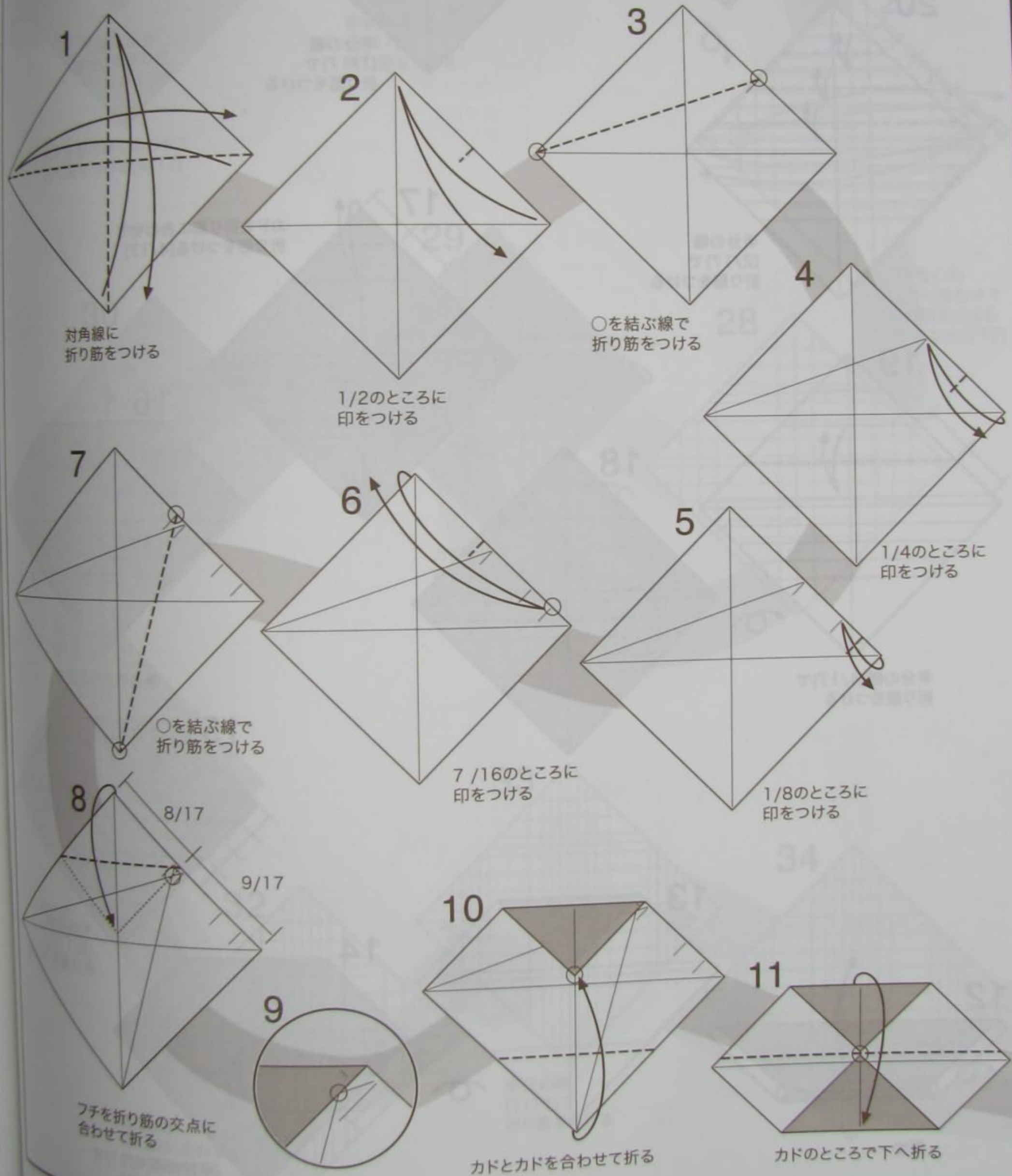


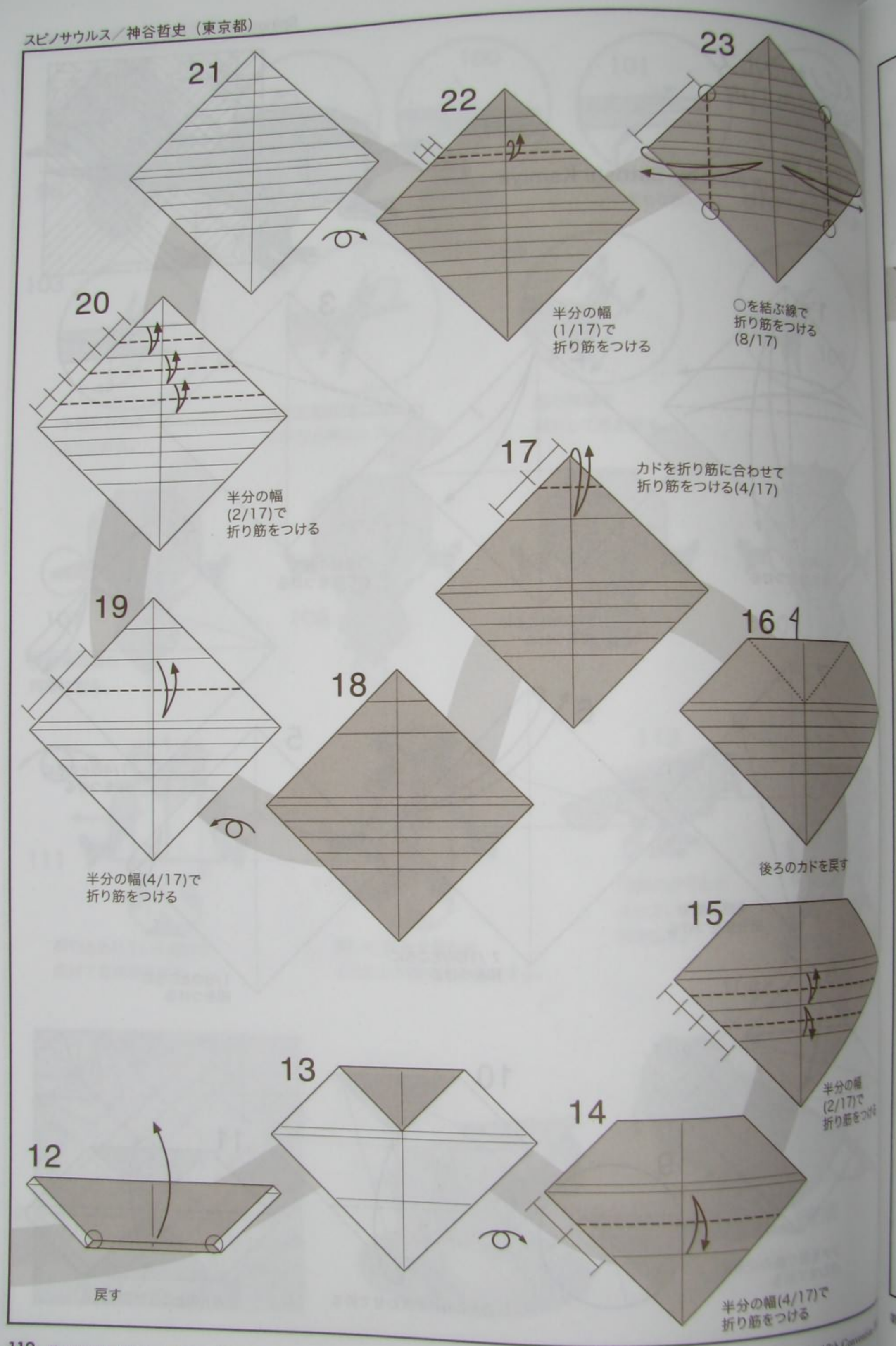
完成

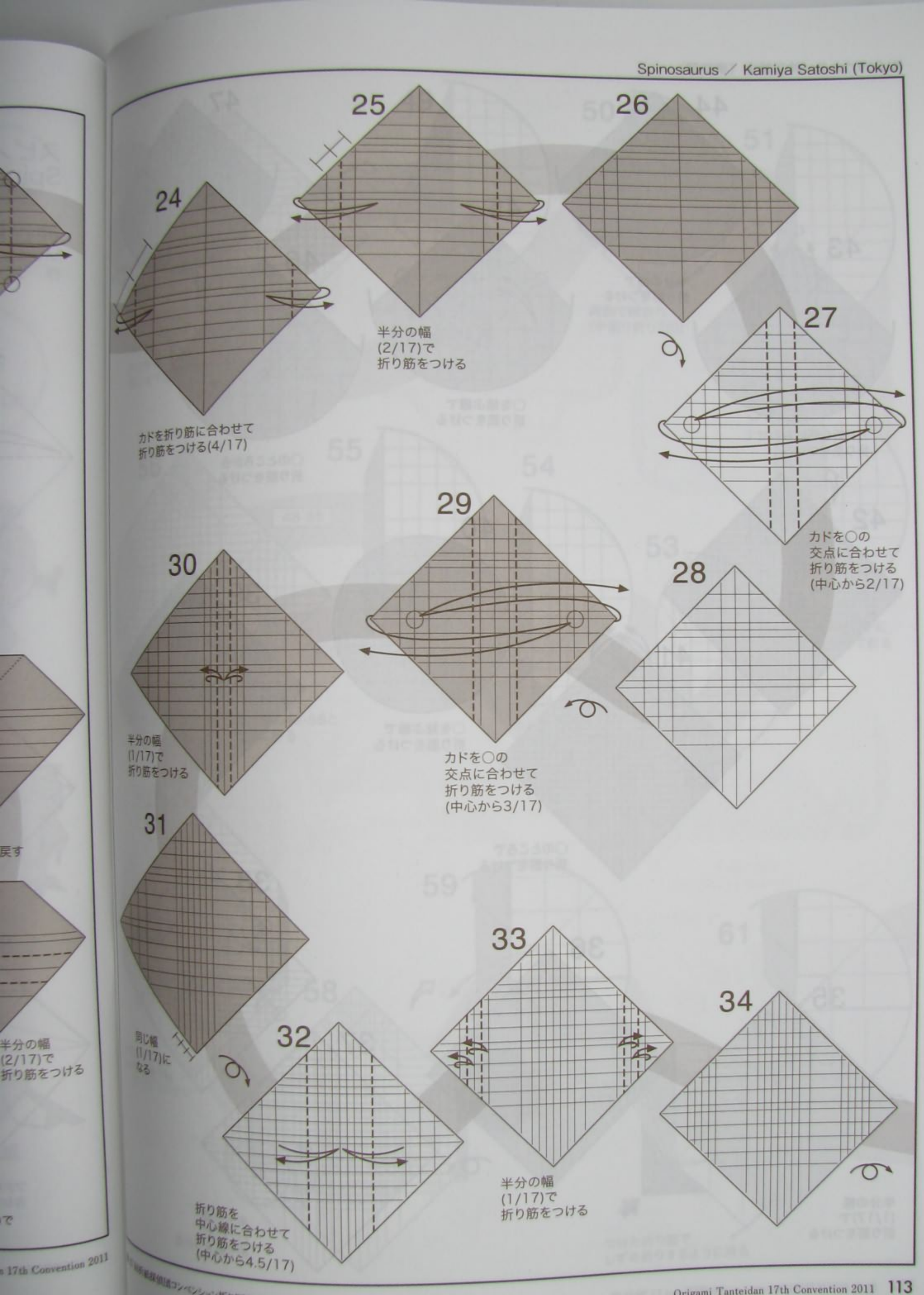
# スピノサウルス
# Spinosaurus

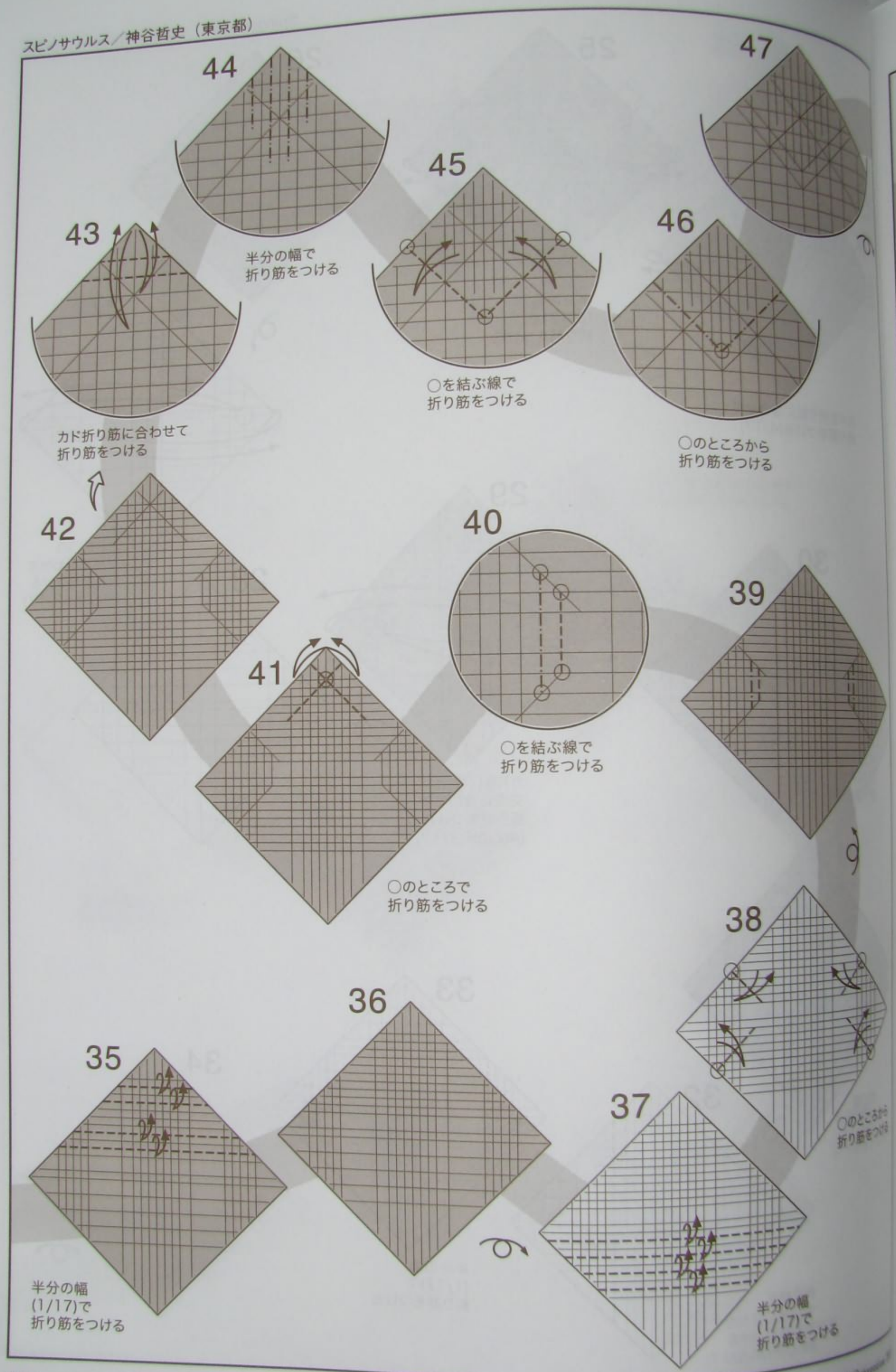
神谷哲史
Model & Diagrams by Satoshi Kamiya
作 2005,2010

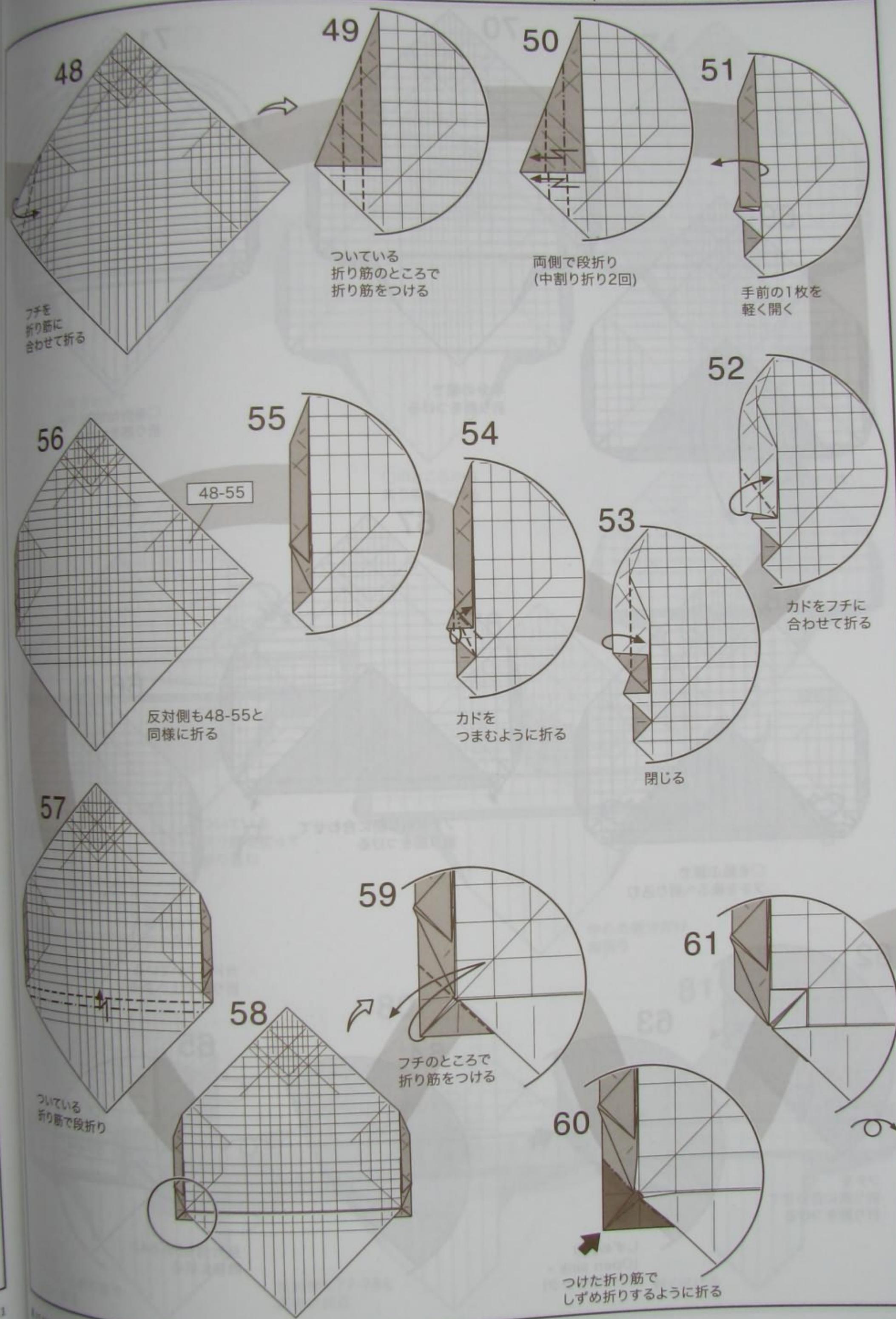




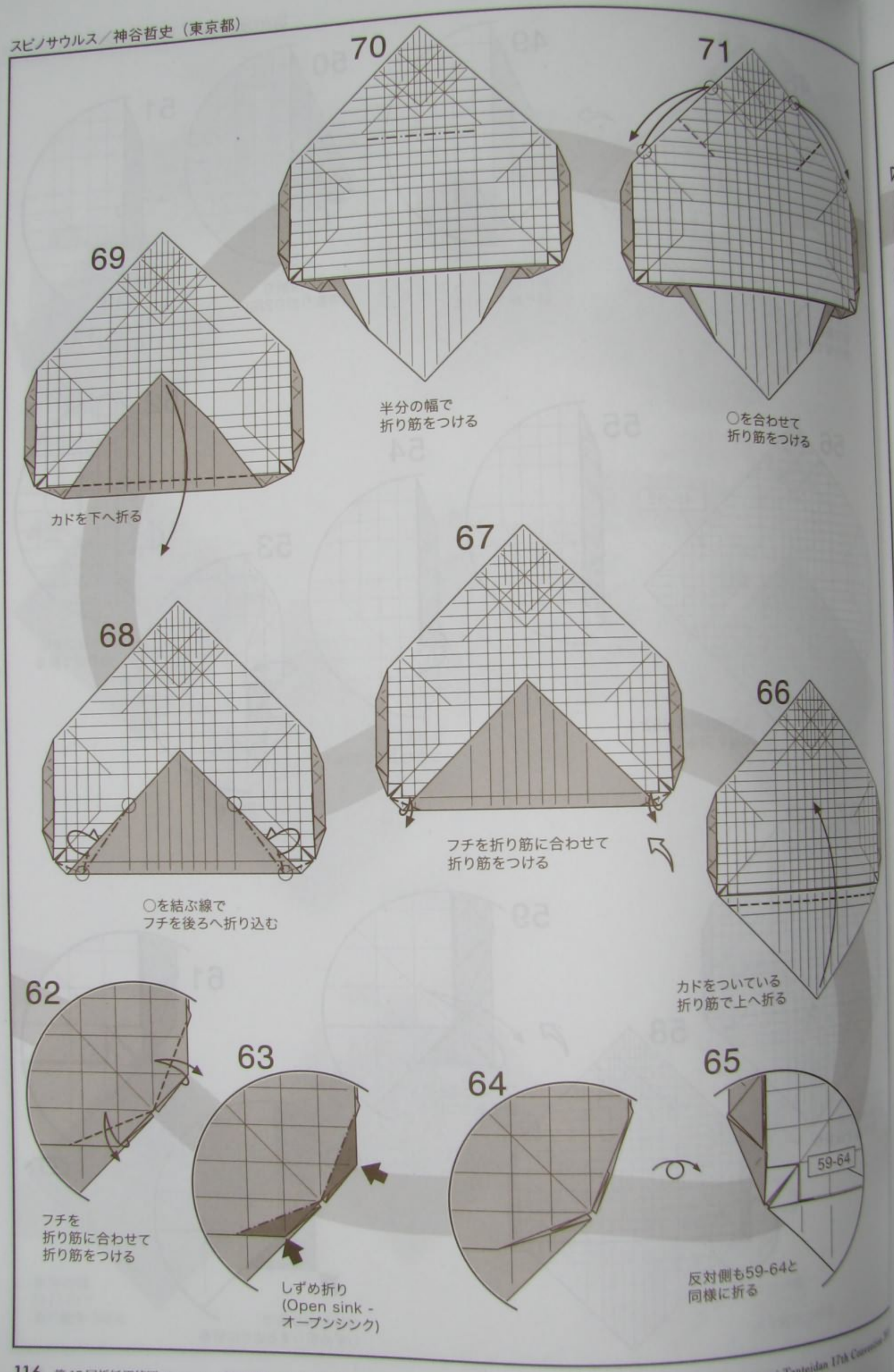

21
22
23
半分の幅
(1/17)で
折り筋をつける
○を結ぶ線で
折り筋をつける
(8/17)
20
半分の幅
(2/17)で
折り筋をつける
17
カドを折り筋に合わせて
折り筋をつける(4/17)
19
半分の幅(4/17)で
折り筋をつける
18
16
後ろのカドを戻す
15
半分の幅
(2/17)で
折り筋をつける
13
14
12
戻す
半分の幅(4/17)で
折り筋をつける


24
カドを折り筋に合わせて
折り筋をつける(4/17)
25
半分の幅
(2/17)で
折り筋をつける
26
27
カドを○の
交点に合わせて
折り筋をつける
(中心から2/17)
28
29
カドを○の
交点に合わせて
折り筋をつける
(中心から3/17)
30
半分の幅
(1/17)で
折り筋をつける
31
同じ幅
(1/17)に
なる
32
折り筋を
中心線に合わせて
折り筋をつける
(中心から4.5/17)
33
半分の幅
(1/17)で
折り筋をつける
34


44
47
45
46
43
半分の幅で
折り筋をつける
○を結ぶ線で
折り筋をつける
○のところから
折り筋をつける
カド折り筋に合わせて
折り筋をつける
42
40
39
41
○を結ぶ線で
折り筋をつける
○のところで
折り筋をつける
38
36
35
37
○のところから
折り筋をつける
半分の幅
(1/17)で
折り筋をつける
半分の幅
(1/17)で
折り筋をつける


48
フチを
折り筋に
合わせて折る
49
ついている
折り筋のところで
折り筋をつける
50
両側で段折り
(中割り折り2回)
51
手前の1枚を
軽く開く
52
カドをフチに
合わせて折る
53
閉じる
54
カドを
つまむように折る
55
56
48-55
反対側も48-55と
同様に折る
57
ついている
折り筋で段折り
58
59
フチのところで
折り筋をつける
60
つけた折り筋で
しずめ折りするように折る
61

スピノサウルス／神谷哲史（東京都）



72

○を合わせて
折り筋をつける

73

○のところから
折り筋をつける

74

段折り

75

段折り

76

中心の部分だけ
段折り

77

ついている
折り筋を使って
折り畳む

78

図のような
折り筋で
折り畳む

79

反対側も77-79と
同様に折る

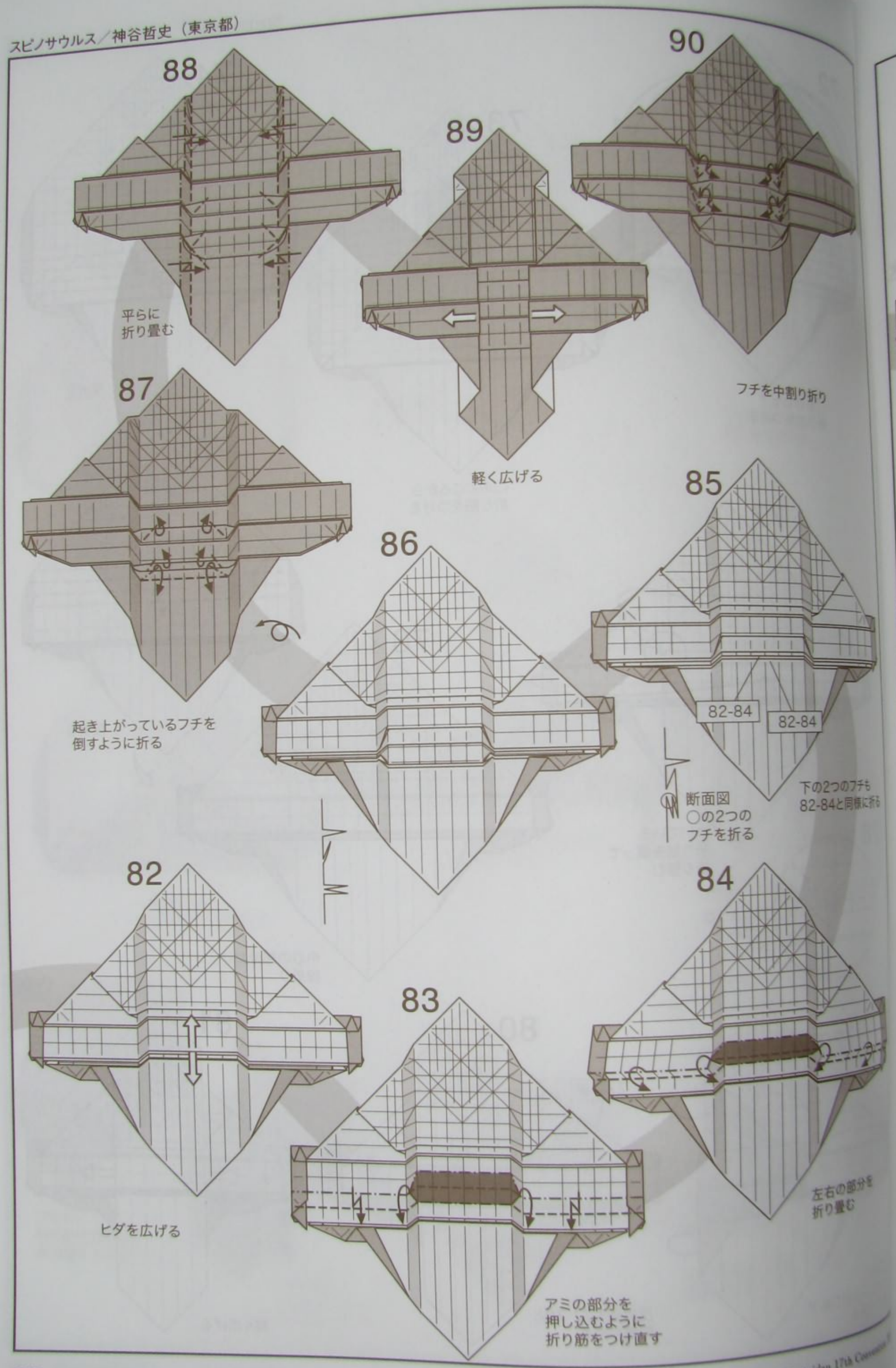
80

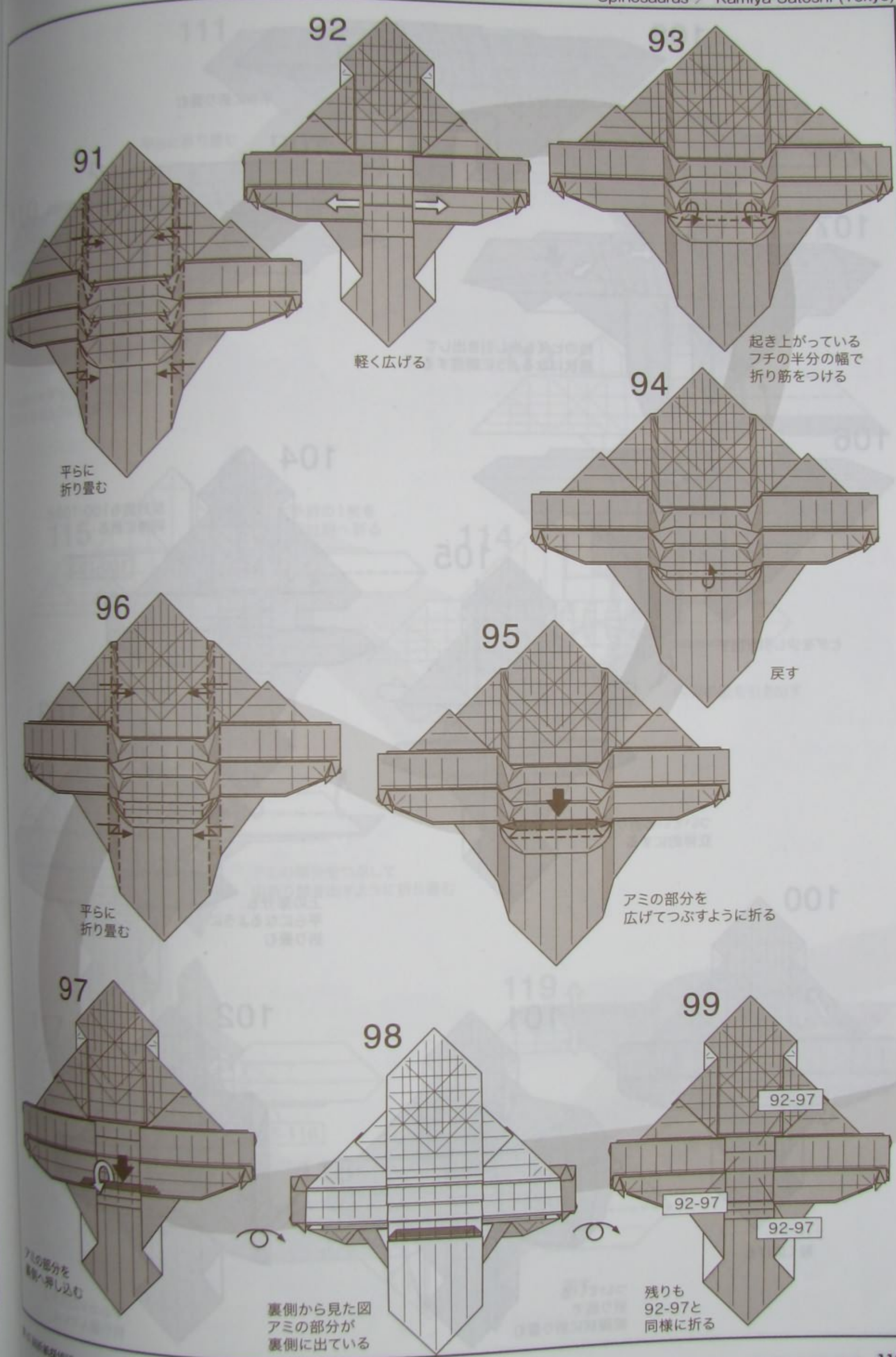
77-79

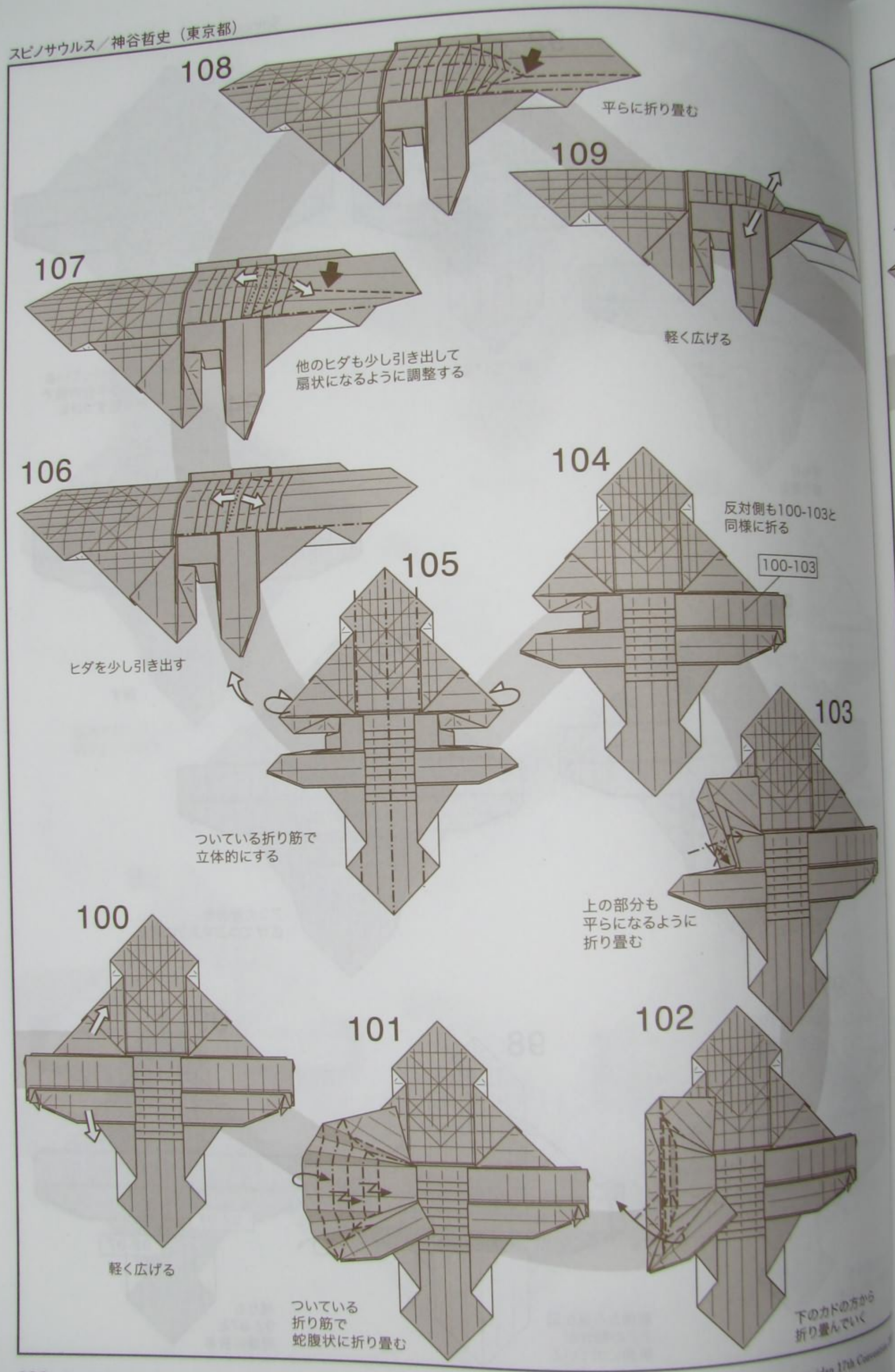
反対側も77-79と
同様に折る

81

軽く広げる


88
平らに
折り畳む
89
軽く広げる
90
フチを中割り折り
87
起き上がっているフチを
倒すように折る
86
85
82-84
82-84
下の2つのフチも
82-84と同様に折る
断面図
○の2つの
フチを折る
82
ヒダを広げる
83
アミの部分を
押し込むように
折り筋をつけ直す
84
左右の部分を
折り畳む


91
平らに
折り畳む
92
軽く広げる
93
起き上がっている
フチの半分の幅で
折り筋をつける
94
戻す
95
アミの部分を
広げてつぶすように折る
96
平らに
折り畳む
97
アミの部分を
裏側へ押し込む
98
裏側から見た図
アミの部分が
裏側に出ている
99
92-97
92-97
92-97
残りも
92-97と
同様に折る


108
平らに折り畳む
109
軽く広げる
107
他のヒダも少し引き出して
扇状になるように調整する
106
ヒダを少し引き出す
105
ついている折り筋で
立体的にする
104
反対側も100-103と
同様に折る
100-103
103
上の部分も
平らになるように
折り畳む
100
軽く広げる
101
ついている
折り筋で
蛇腹状に折り畳む
102
下のカドの方から
折り畳んでいく

111

平らに折り畳む

112

軽く広げて
内側を見る

110

反対側のヒダも少し引き出して
揃えになるように調整する

113

内側を広げて
アミの部分を
つぶすように折る

115

手前の1枚を
反対側へ折る

114

内側の紙を引き出す

116

アミの部分をつぶして
山折り線を出すように折り畳む

117

115-116

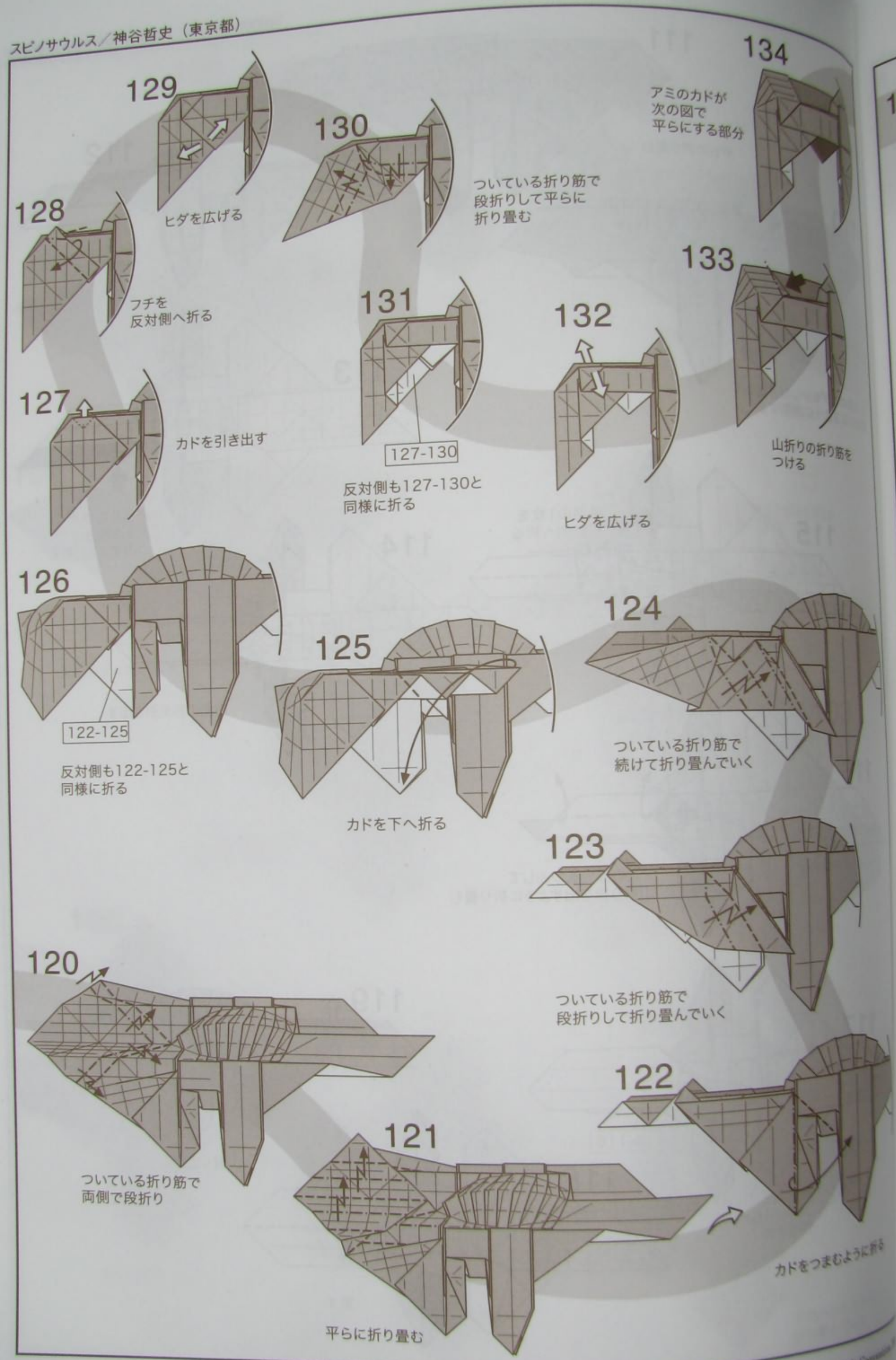
反対側も
115-116と
同様に折る

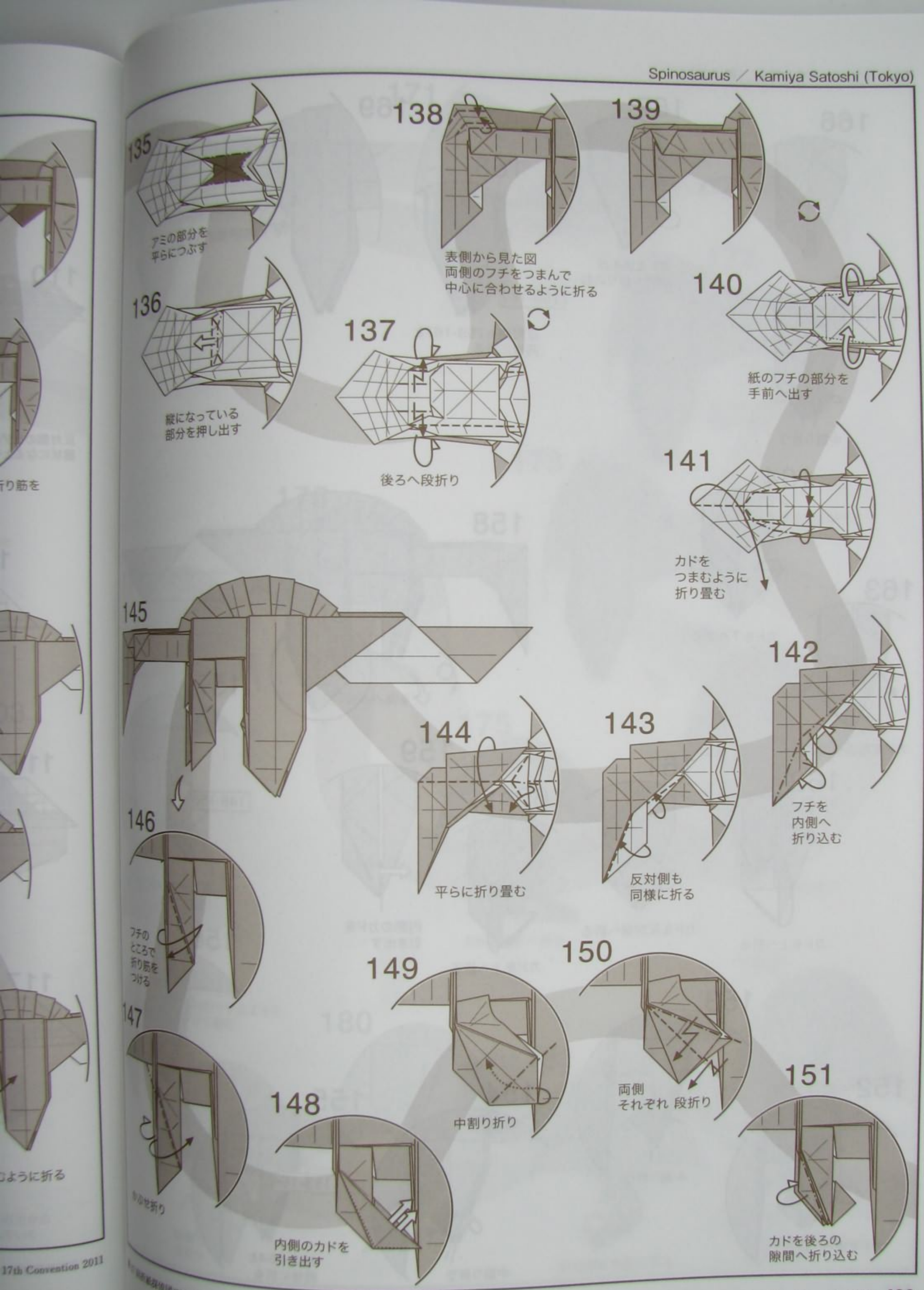
119

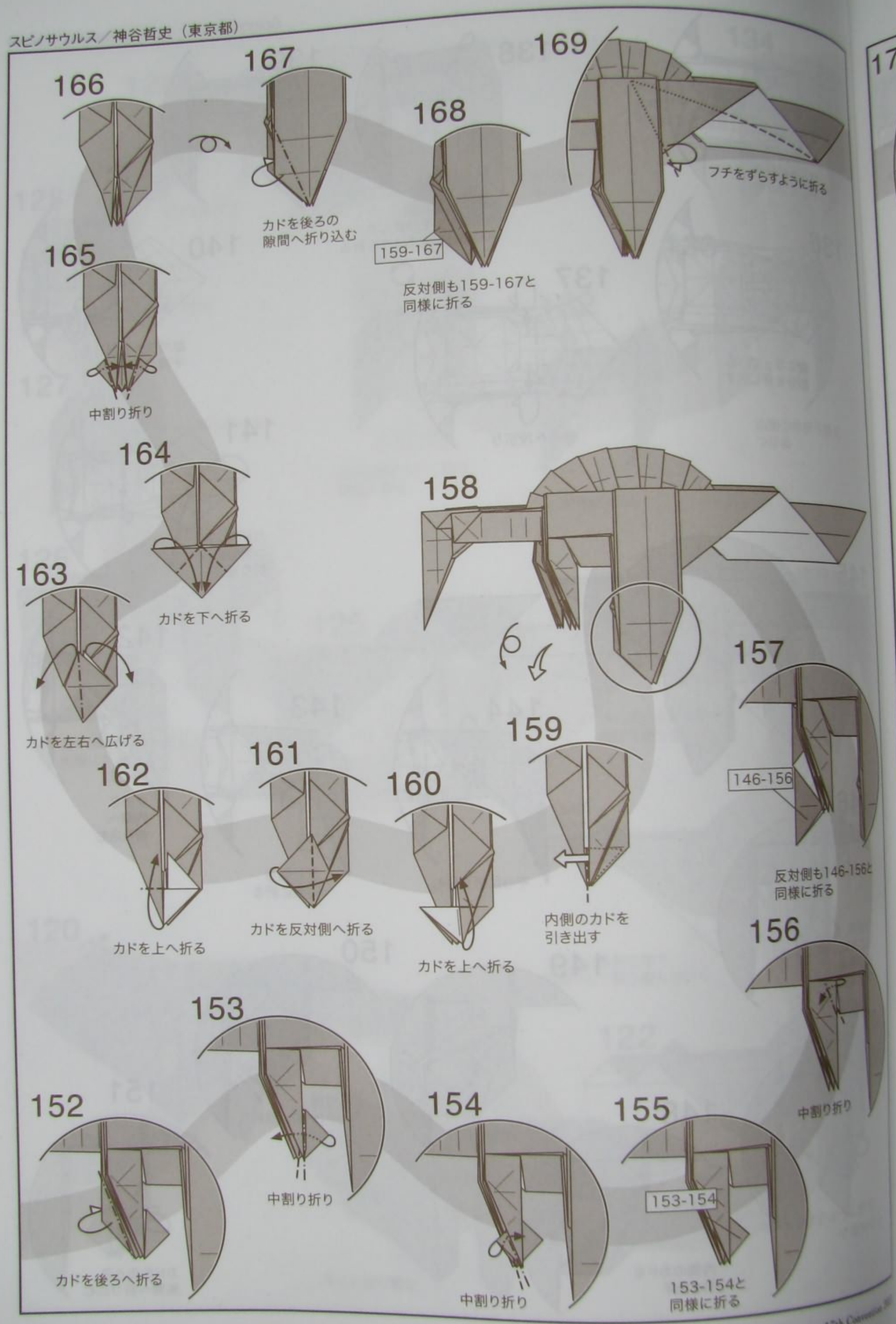
軽く広げる

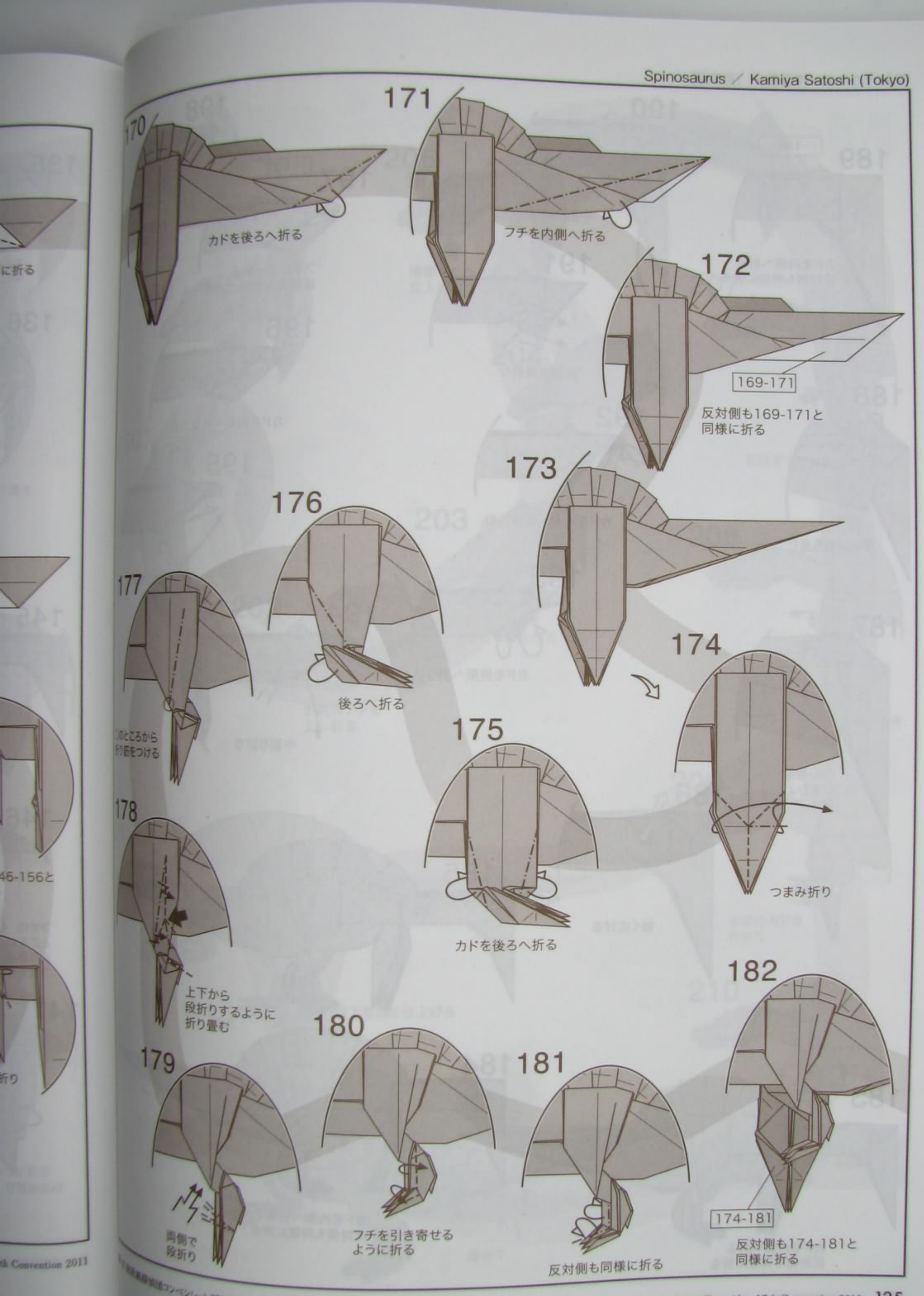
118

戻す

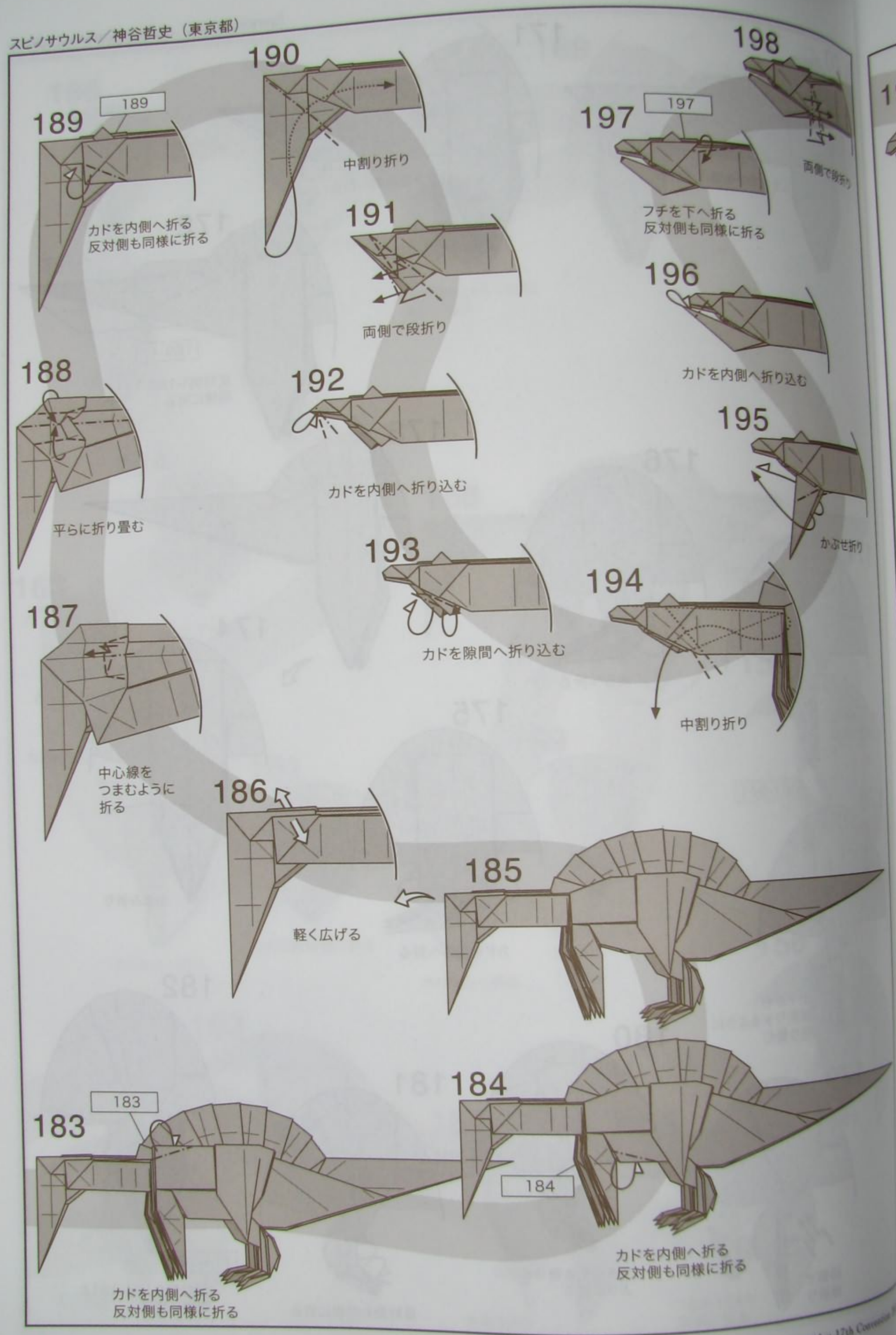

134
アミのカドが
次の図で
平らにする部分
129
ヒダを広げる
130
ついている折り筋で
段折りして平らに
折り畳む
128
フチを
反対側へ折る
133
山折りの折り筋を
つける
131
127-130
反対側も127-130と
同様に折る
132
ヒダを広げる
127
カドを引き出す
126
122-125
反対側も122-125と
同様に折る
125
カドを下へ折る
124
ついている折り筋で
続けて折り畳んでいく
123
ついている折り筋で
段折りして折り畳んでいく
120
ついている折り筋で
両側で段折り
122
121
平らに折り畳む
カドをつまむように折る

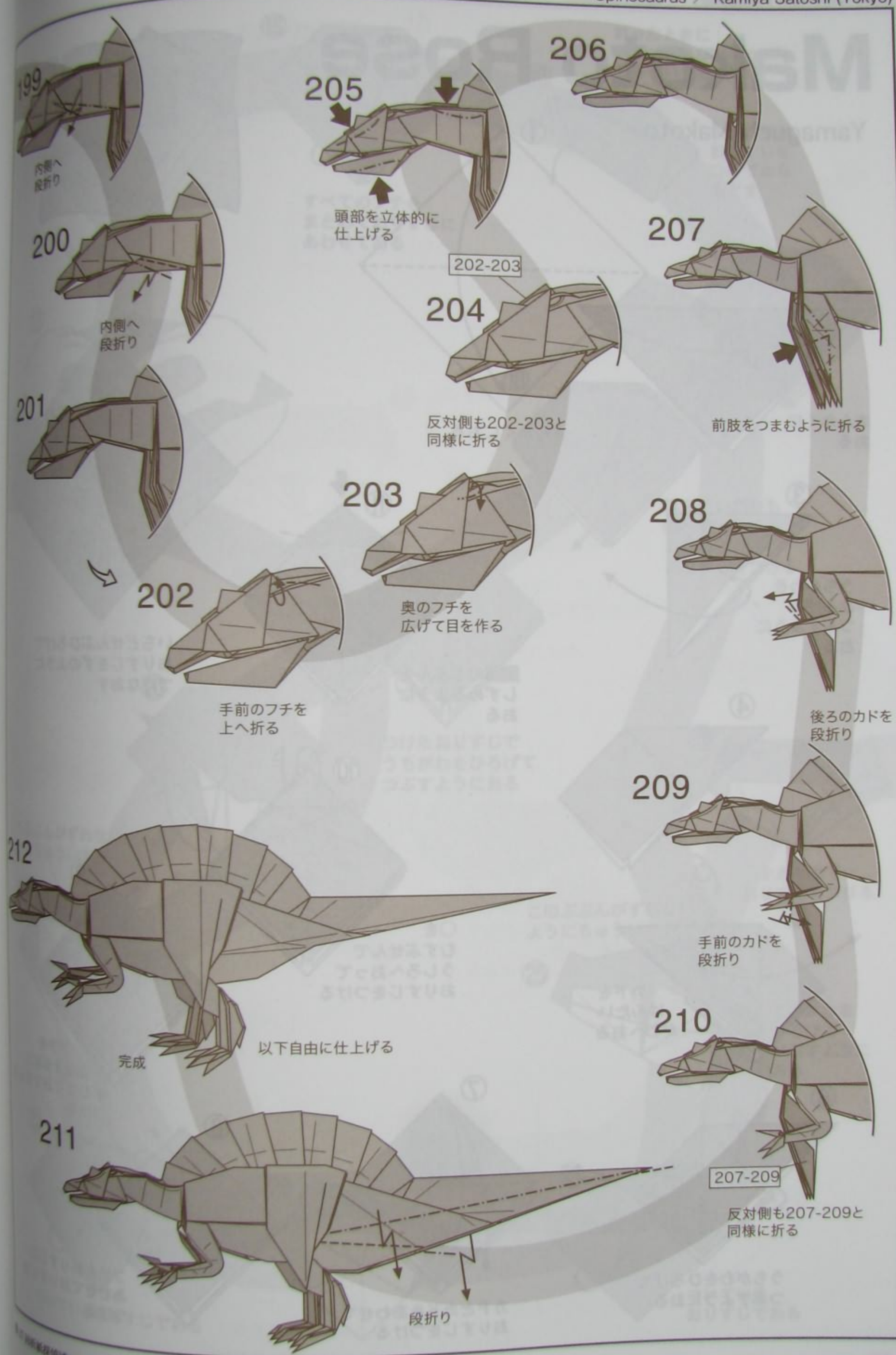

135
アミの部分を
平らにつぶす
136
縦になっている
部分を押し出す
137
後ろへ段折り
138
表側から見た図
両側のフチをつまんで
中心に合わせるように折る
139
140
紙のフチの部分を
手前へ出す
141
カドを
つまむように
折り畳む
142
フチを
内側へ
折り込む
143
反対側も
同様に折る
144
平らに折り畳む
145
146
フチの
ところで
折り筋を
つける
147
148
内側のカドを
引き出す
149
中割り折り
150
両側
それぞれ 段折り
151
カドを後ろの
隙間へ折り込む


166
167
カドを後ろの
隙間へ折り込む
168
159-167
反対側も159-167と
同様に折る
169
フチをずらすように折る
165
中割り折り
164
カドを下へ折る
163
カドを左右へ広げる
158
157
146-156
反対側も146-156と
同様に折る
159
内側のカドを
引き出す
162
カドを上へ折る
161
カドを反対側へ折る
160
カドを上へ折る
156
中割り折り
153
中割り折り
152
カドを後ろへ折る
154
中割り折り
155
153-154
153-154と
同様に折る


170
カドを後ろへ折る
171
フチを内側へ折る
172
169-171
反対側も169-171と
同様に折る
173
174
つまみ折り
175
カドを後ろへ折る
176
後ろへ折る
177
178
上下から
段折りするように
折り畳む
179
両側で
段折り
180
フチを引き寄せる
ように折る
181
反対側も同様に折る
182
174-181
反対側も174-181と
同様に折る

スピノサウルス／神谷哲史（東京都）

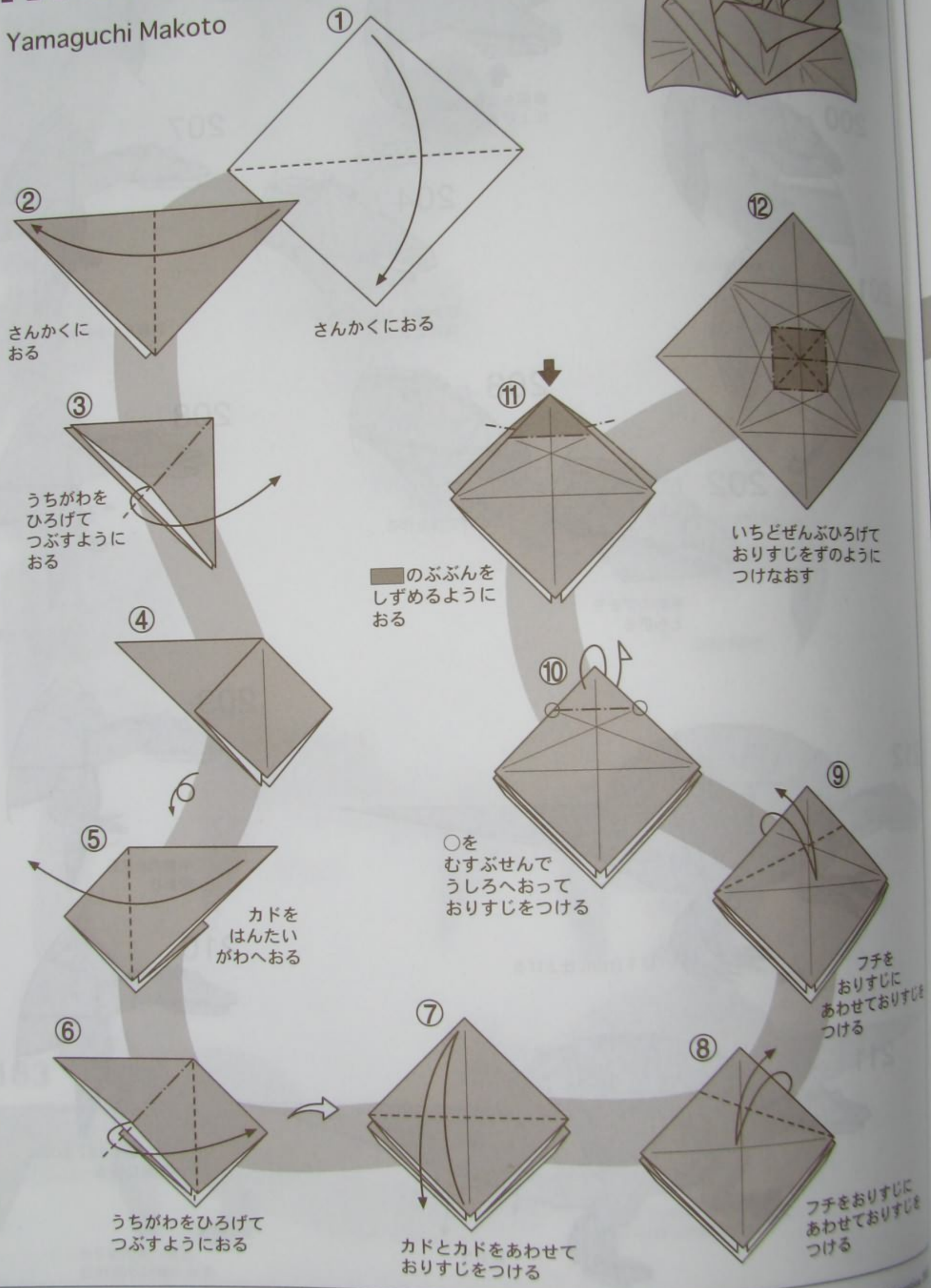


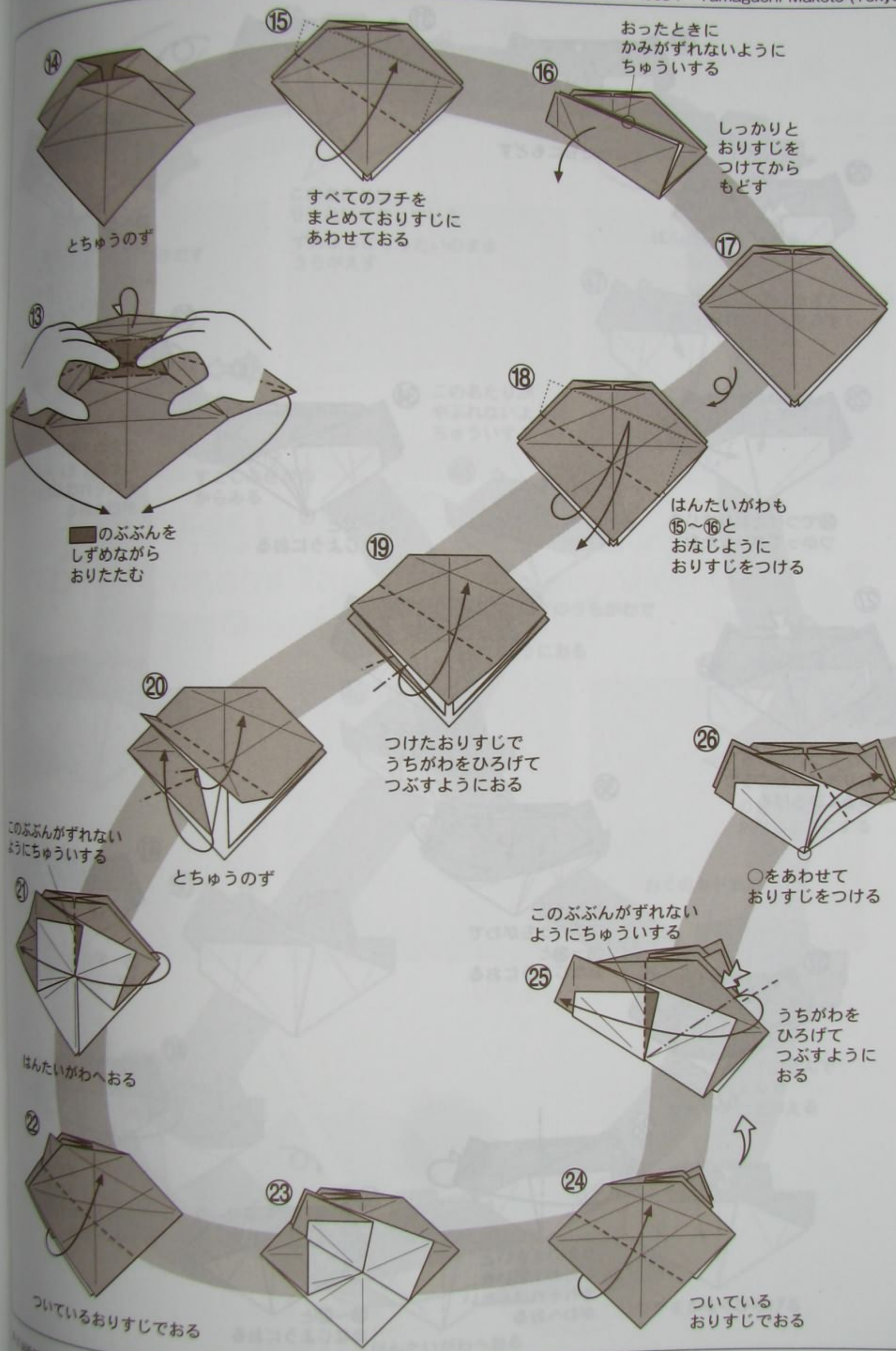

199
内側へ
段折り
200
内側へ
段折り
201
202
手前のフチを
上へ折る
203
奥のフチを
広げて目を作る
204
反対側も202-203と
同様に折る
202-203
205
頭部を立体的に
仕上げる
206
207
前肢をつまむように折る
208
後ろのカドを
段折り
209
手前のカドを
段折り
210
207-209
反対側も207-209と
同様に折る
212
以下自由に仕上げる
完成
211
段折り

バラ／山口　真（東京都）

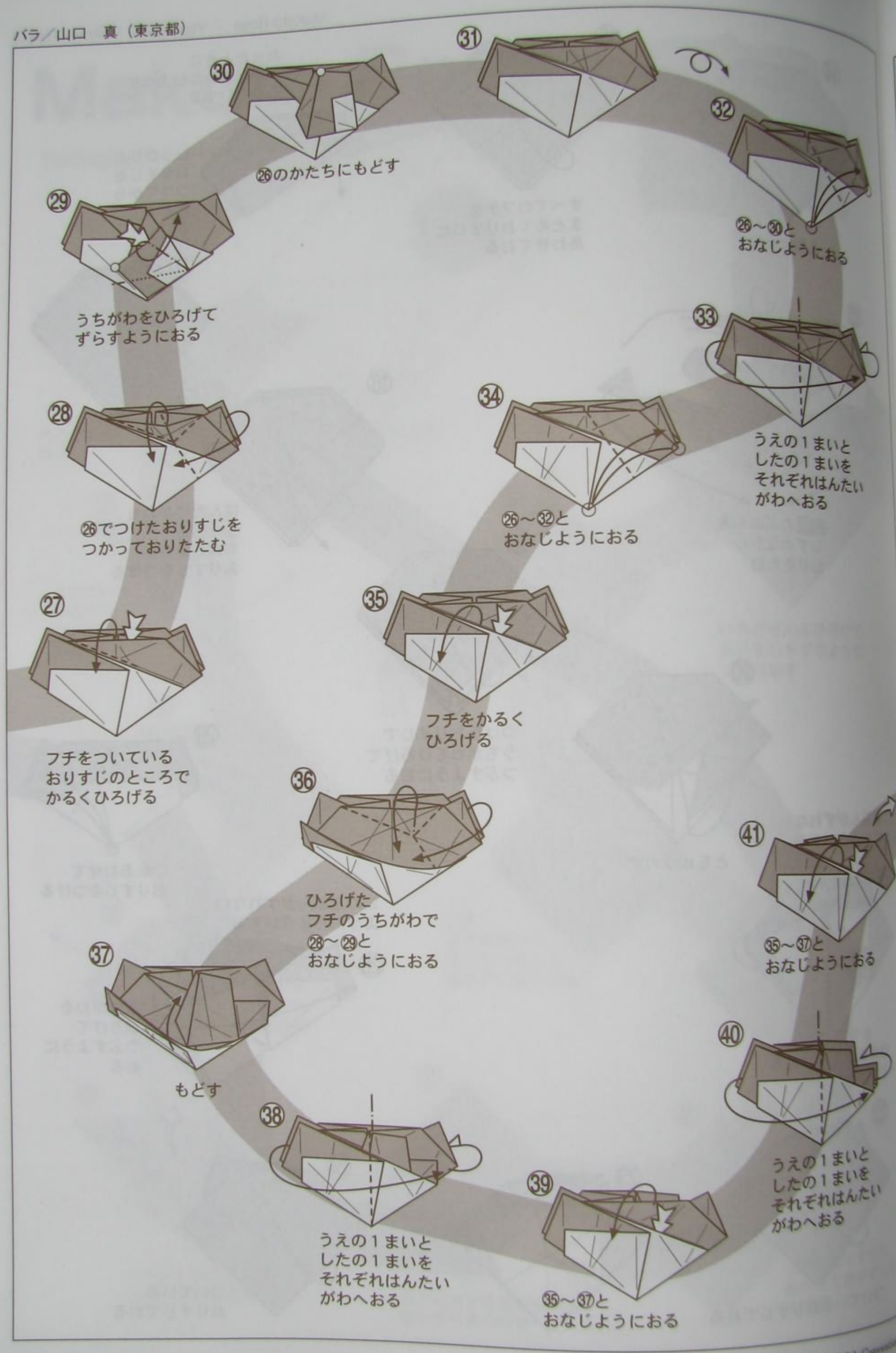
# Makoto Rose

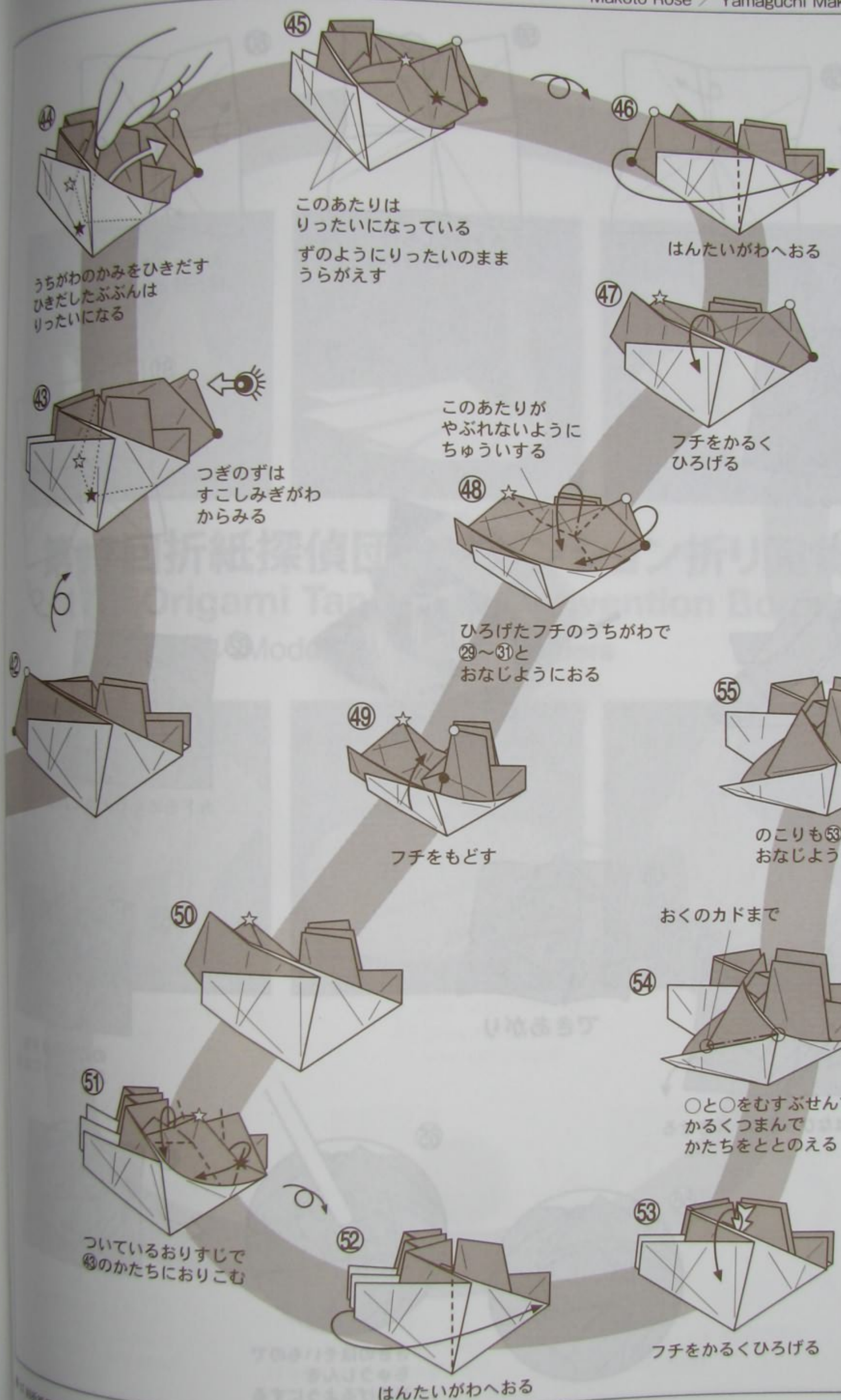
Yamaguchi Makoto

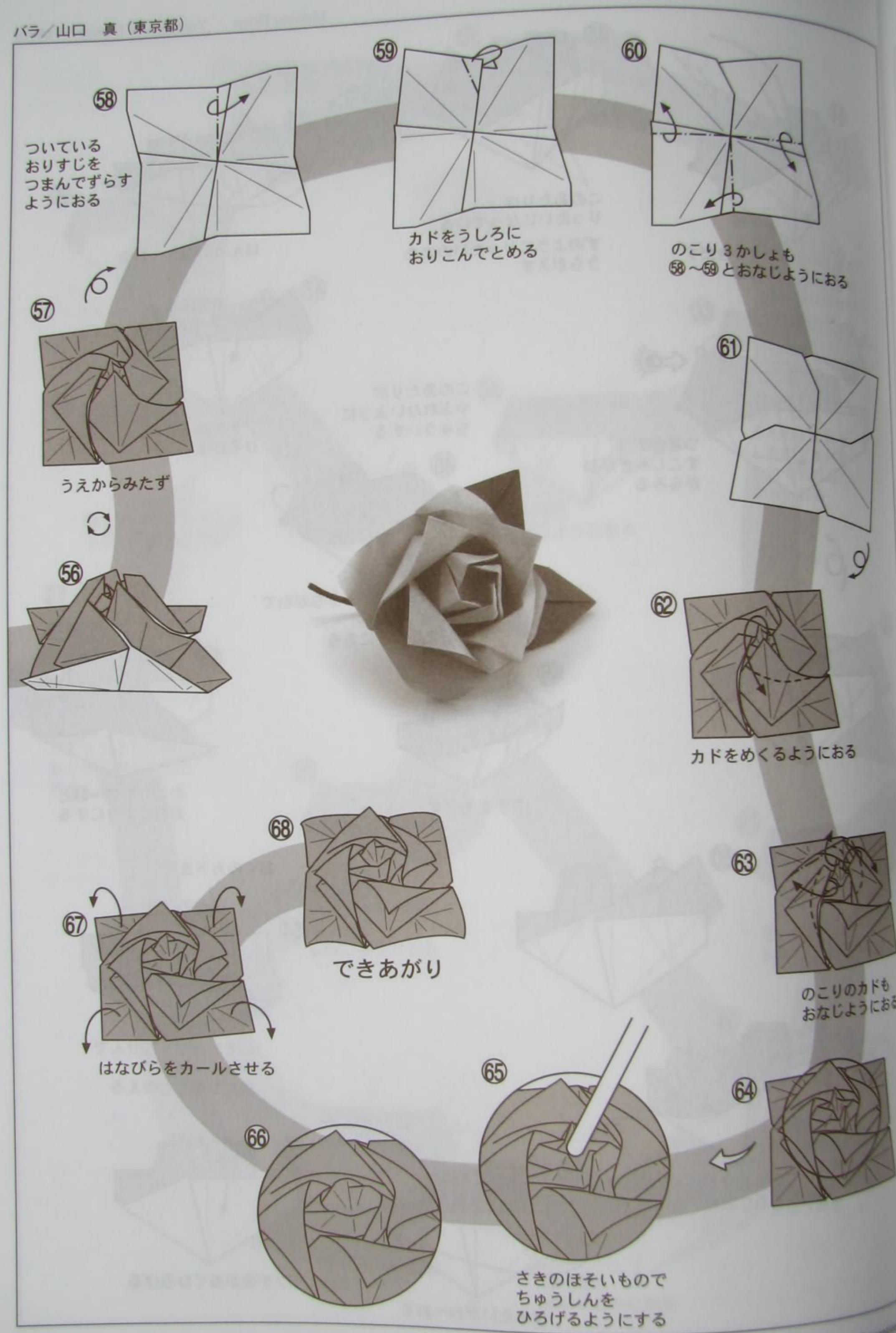


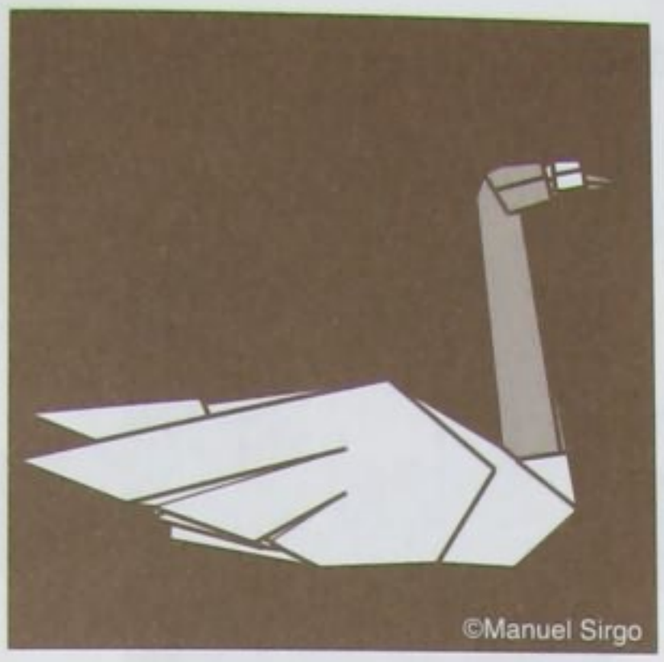

⑭
とちゅうのず
⑮
すべてのフチを
まとめておりすじに
あわせておる
⑯
おったときに
かみがずれないように
ちゅういする
しっかりと
おりすじを
つけてから
もどす
⑰
⑬
のぶぶんを
しずめながら
おりたたむ
⑱
はんたいがわも
⑮〜⑯と
おなじように
おりすじをつける
⑲
つけたおりすじで
うちがわをひろげて
つぶすようにおる
⑳
とちゅうのず
このぶぶんがずれない
ようにちゅういする
㉑
はんたいがわへおる
㉒
ついているおりすじでおる
㉓
㉔
ついている
おりすじでおる
㉕
このぶぶんがずれない
ようにちゅういする
うちがわを
ひろげて
つぶすように
おる
㉖
○をあわせて
おりすじをつける

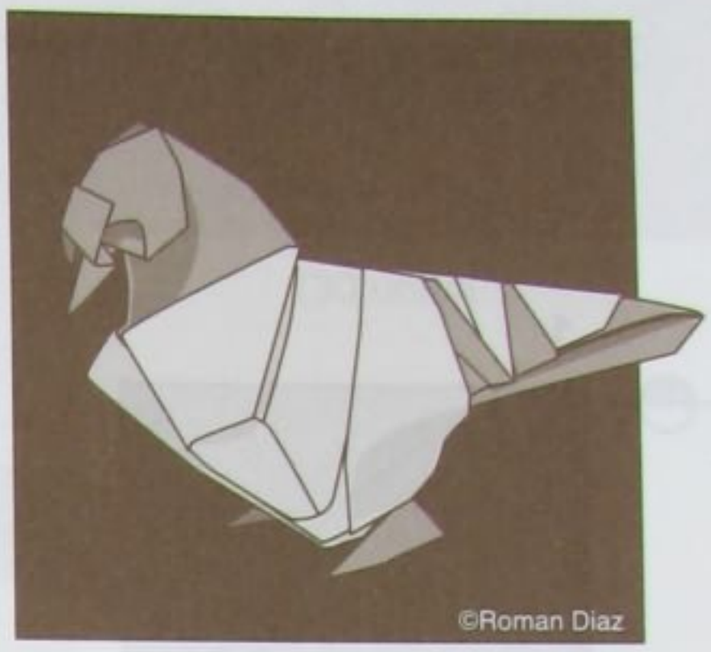
バラ／山口　真（東京都）


㉖のかたちにもどす
うちがわをひろげて
ずらすようにおる
㉖でつけたおりすじを
つかっておりたたむ
フチをついている
おりすじのところで
かるくひろげる
フチをかるく
ひろげる
ひろげた
フチのうちがわで
㉘～㉙と
おなじようにおる
もどす
うえの１まいと
したの１まいを
それぞれはんたい
がわへおる
㉖～㉜と
おなじようにおる
㉖～㉚と
おなじようにおる
うえの１まいと
したの１まいを
それぞれはんたい
がわへおる
㉟～㊲と
おなじようにおる
㉟～㊲と
おなじようにおる
うえの１まいと
したの１まいを
それぞれはんたい
がわへおる


44
うちがわのかみをひきだす
ひきだしたぶぶんは
りったいになる
45
このあたりは
りったいになっている
ずのようにりったいのまま
うらがえす
46
はんたいがわへおる
47
フチをかるく
ひろげる
43
つぎのずは
すこしみぎがわ
からみる
このあたりが
やぶれないように
ちゅういする
48
ひろげたフチのうちがわで
㉙〜㉛と
おなじようにおる
42
49
フチをもどす
55
のこりも㊸〜㊹と
おなじようにする
50
おくのカドまで
54
○と○をむすぶせんで
かるくつまんで
かたちをととのえる
51
ついているおりすじで
㊸のかたちにおりこむ
52
はんたいがわへおる
53
フチをかるくひろげる


58
ついている
おりすじを
つまんでずらす
ようにおる
59
カドをうしろに
おりこんでとめる
60
のこり３かしょも
58～59とおなじようにおる
57
うえからみたず
61
56
62
カドをめくるようにおる
68
できあがり
63
のこりのカドも
おなじようにおる
67
はなびらをカールさせる
65
64
66
さきのほそいもので
ちゅうしんを
ひろげるようにする



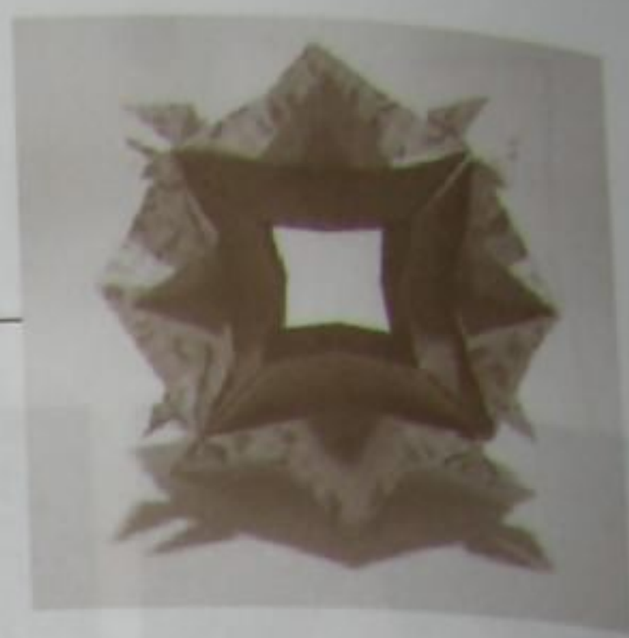

# 第17回折紙探偵団コンベンション折り図集

## 17th Origami Tanteidan Convention Book

### 海外編／Models by Foreign Folders

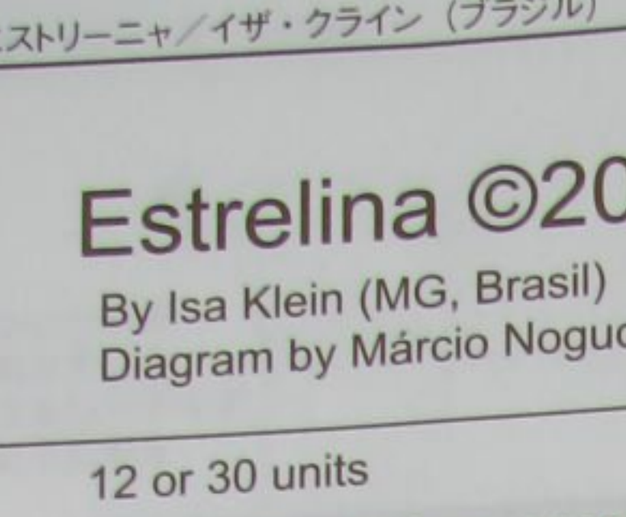
# Estrelina ©2010

By Isa Klein (MG, Brasil)
Diagram by Márcio Noguchi (NY, USA)

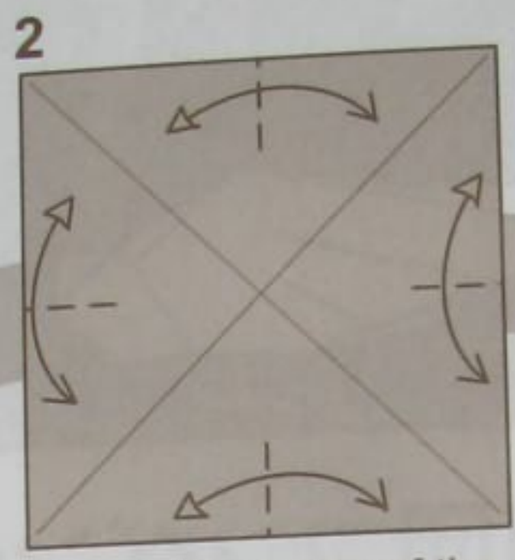


12 or 30 units

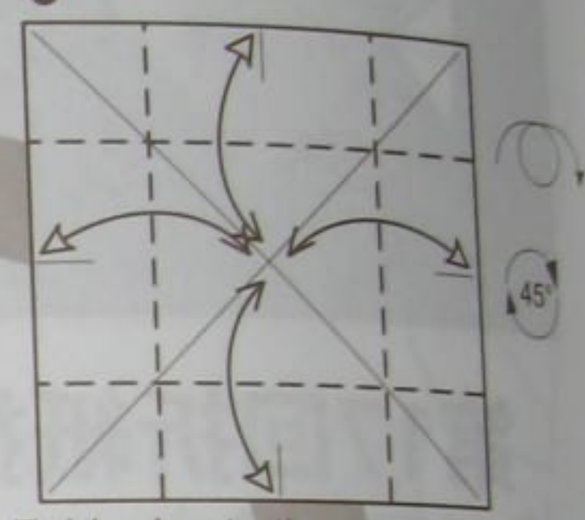
7,5 cm, double face recommended.



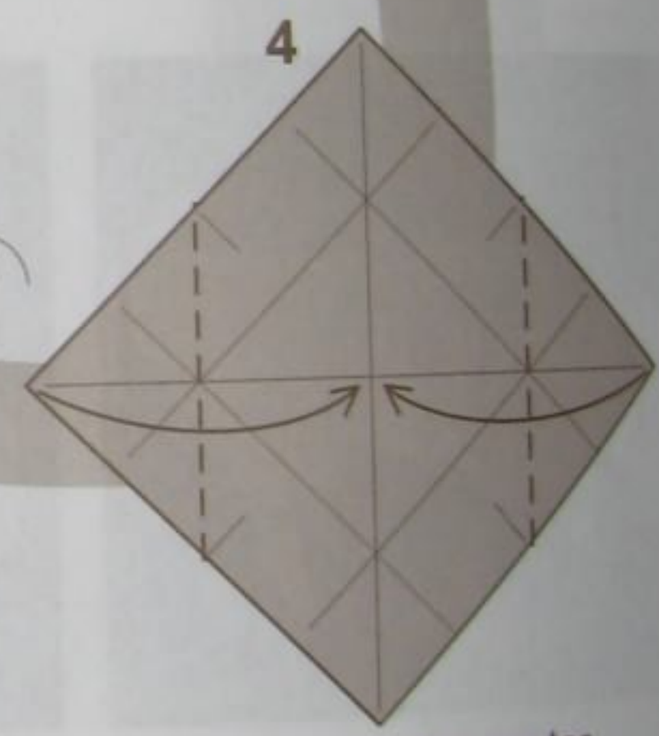

Fold and unfold two diagonals. Turn over.



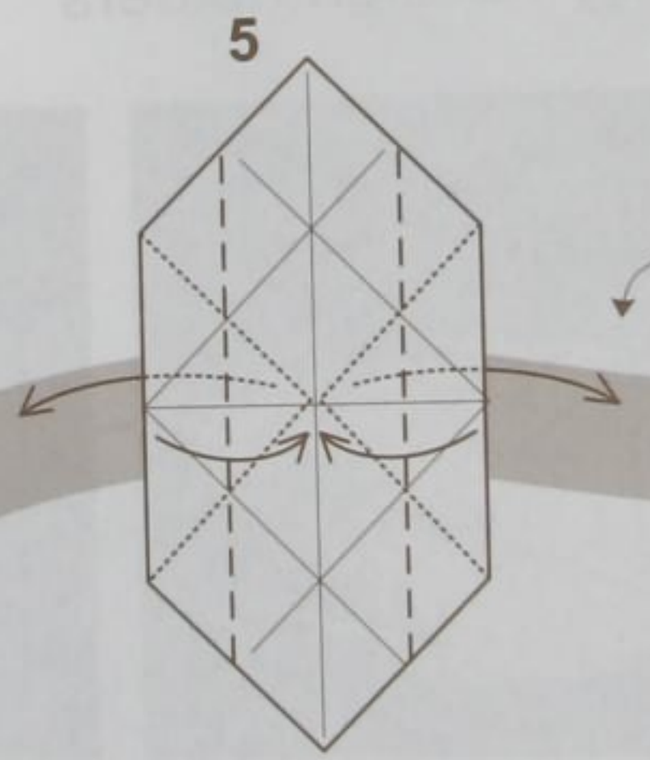

Pinch the center of the edge.



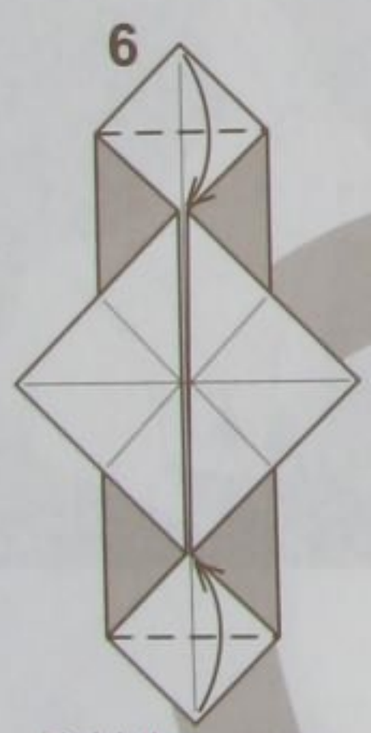

Fold edge to the center and unfold. Rotate 45° and turn over.



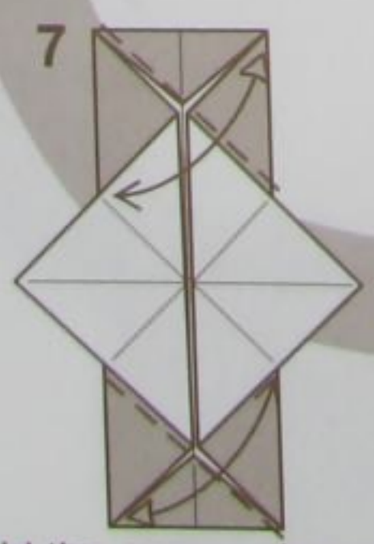

Fold corner to the center. Turn over.



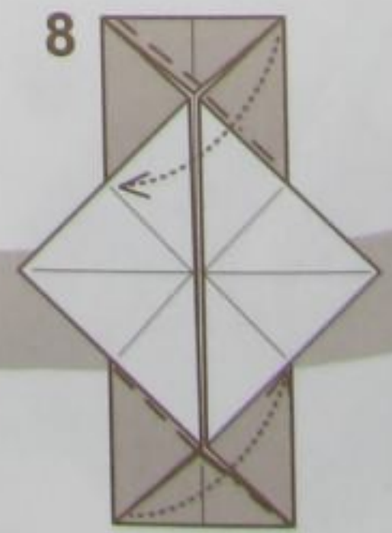

Fold the folded edge to the center allowing the flaps to flip over.



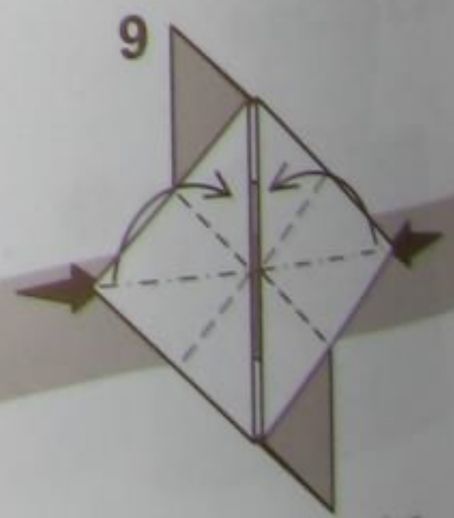

Fold the corner.



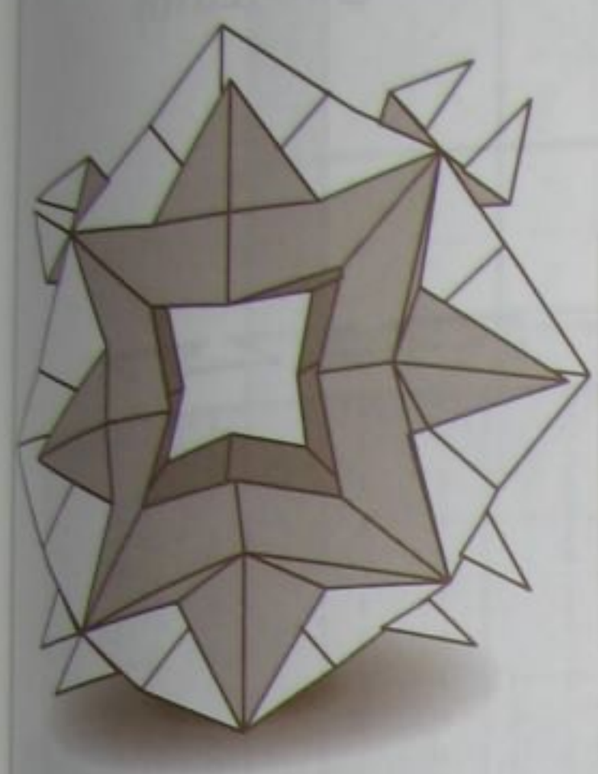

Fold the corner along the edge. Unfold.

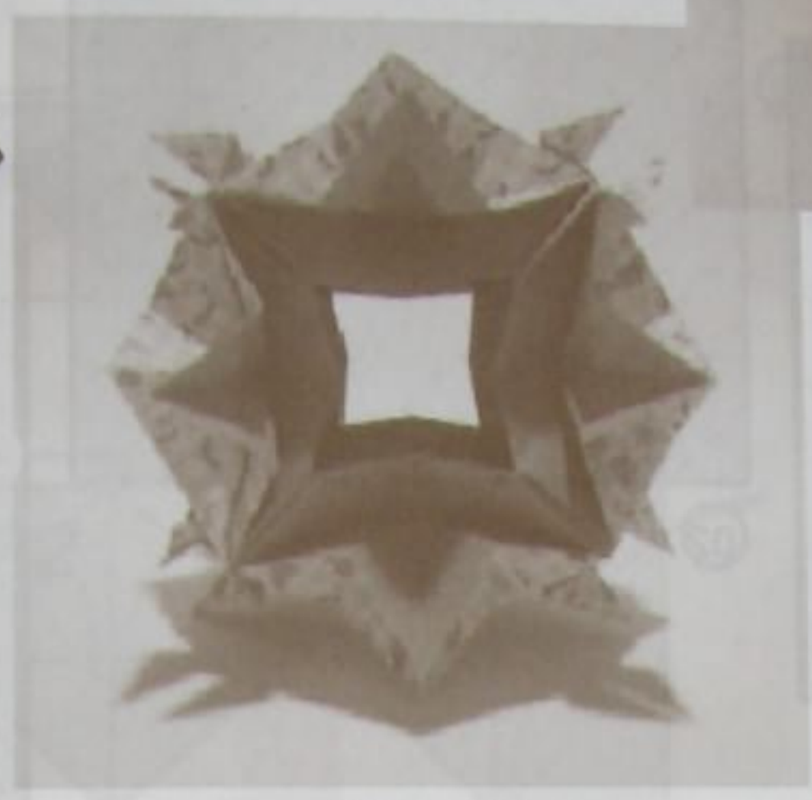



Inside reverse fold. Tuck the flap under the layer of the other side.

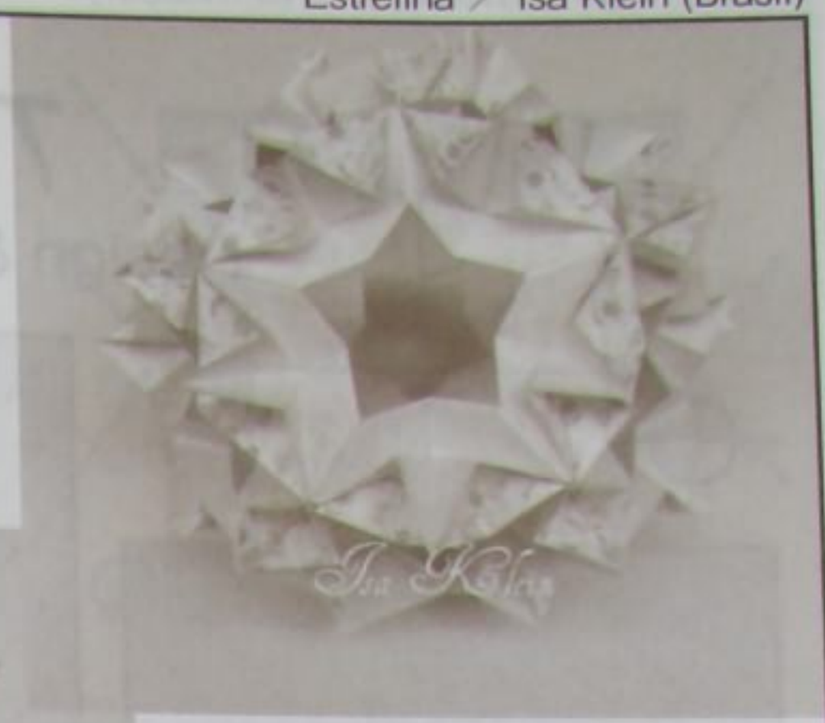



Using the existing crease, collapse what looks like a preliminary fold.





(12 units)

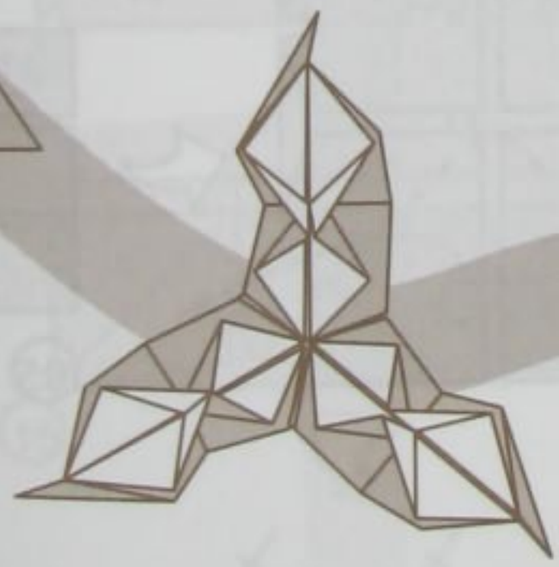


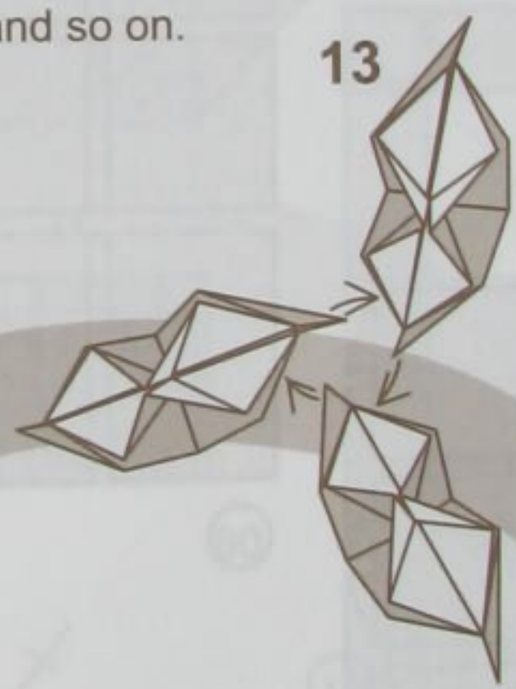
(30 units)

14

## Assembly

The assembly uses the same principles of the Sonobe modular. It can be assembled with 12, 24, 30 modules and so on.





13

10

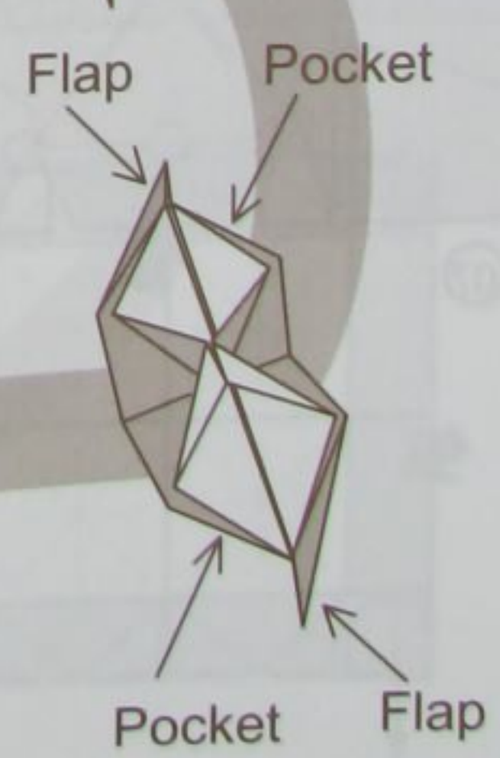
Fold in half, so that the model will lie flat again.

11

Fold corner to corner. Repeat on the back.

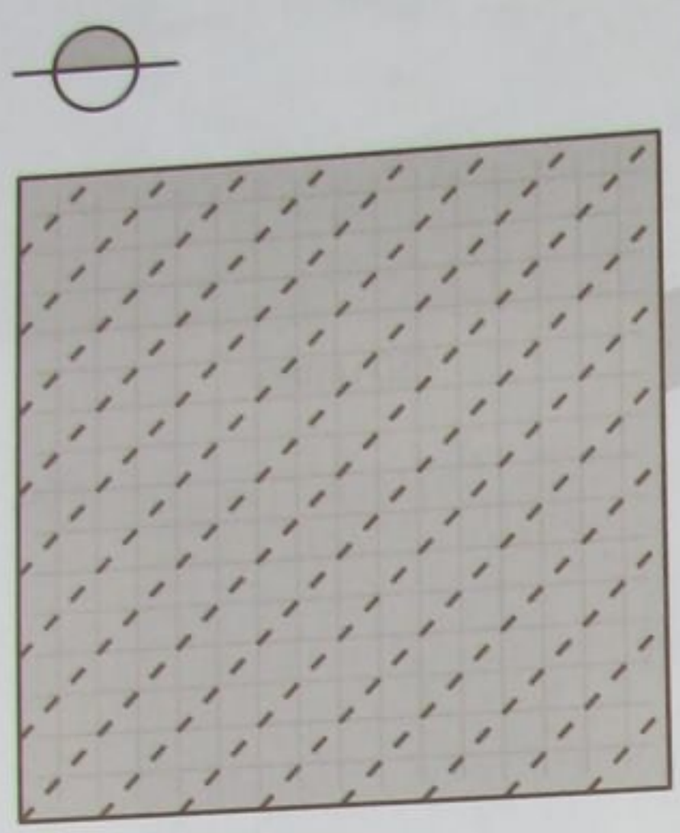
12

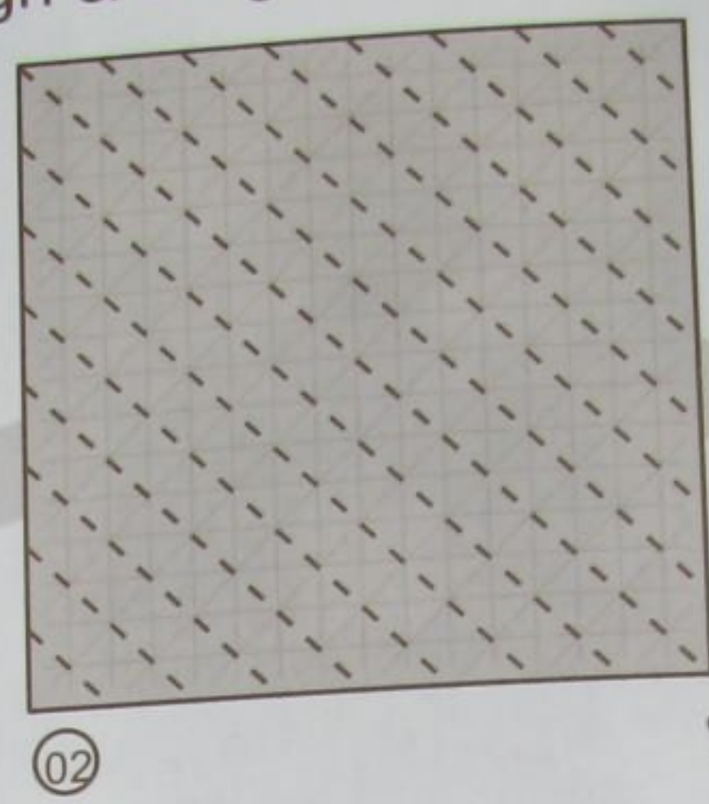
Unit complete.

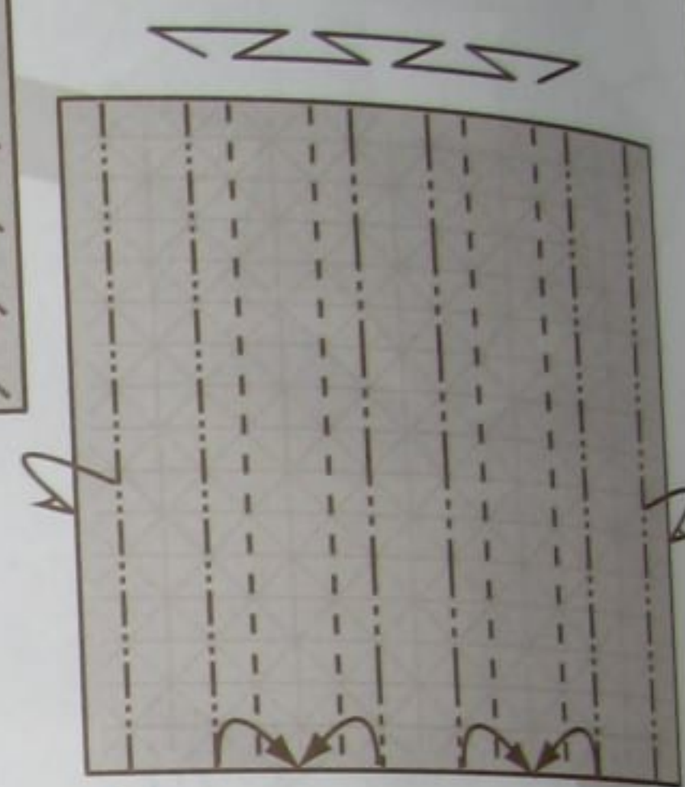


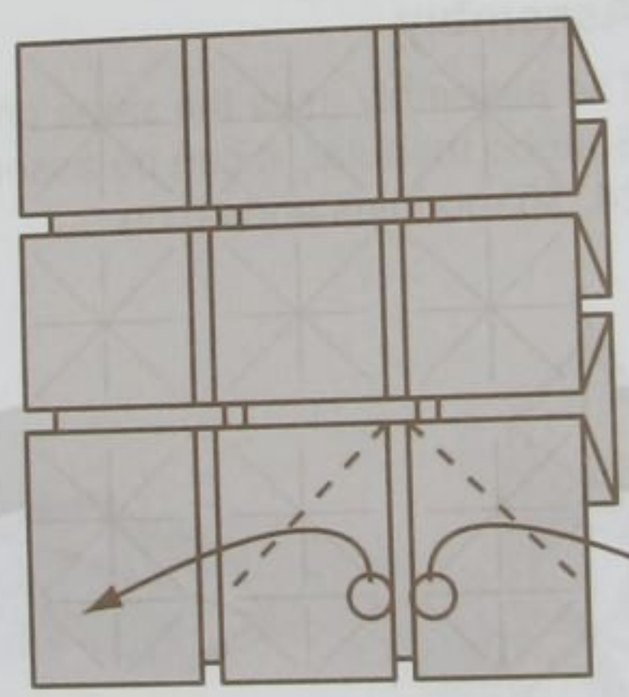
# Tessellation

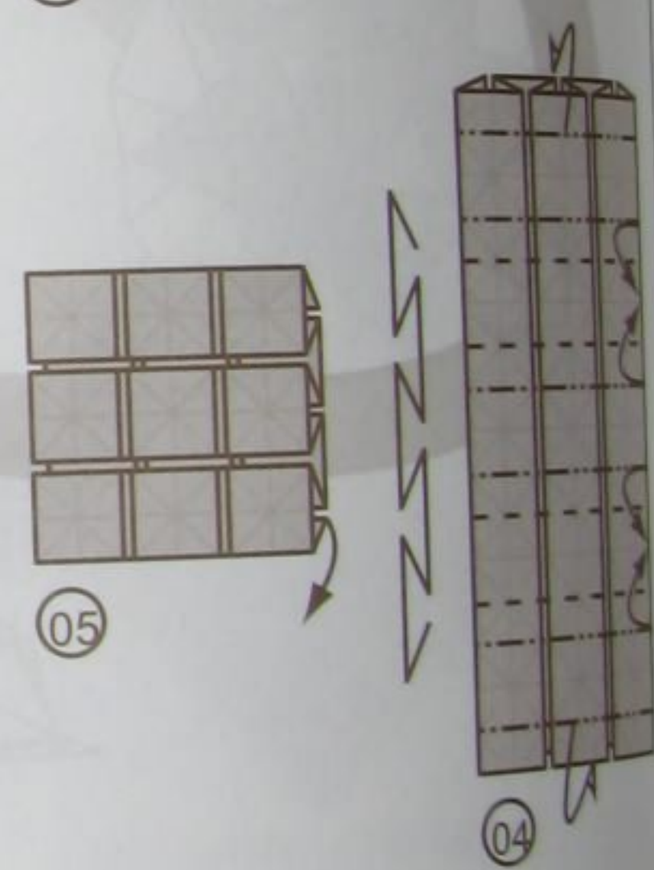
## Design & Diagrams by Anna Kastlunger (2010)

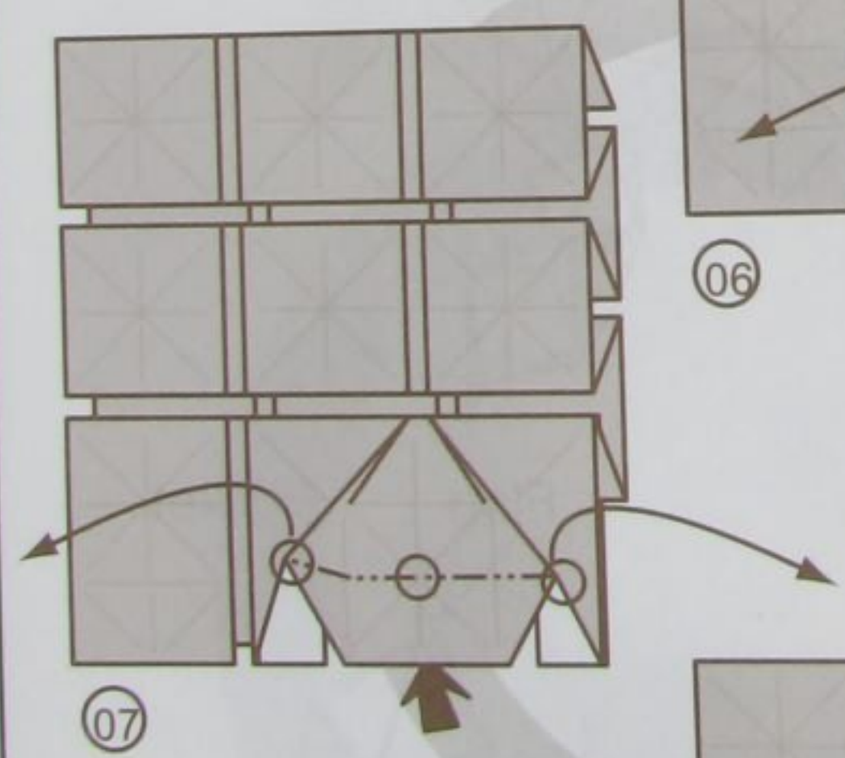


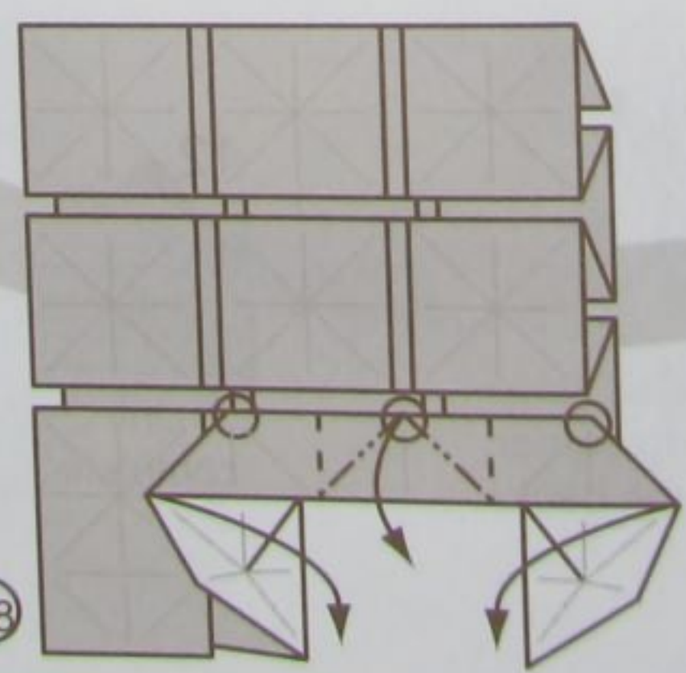



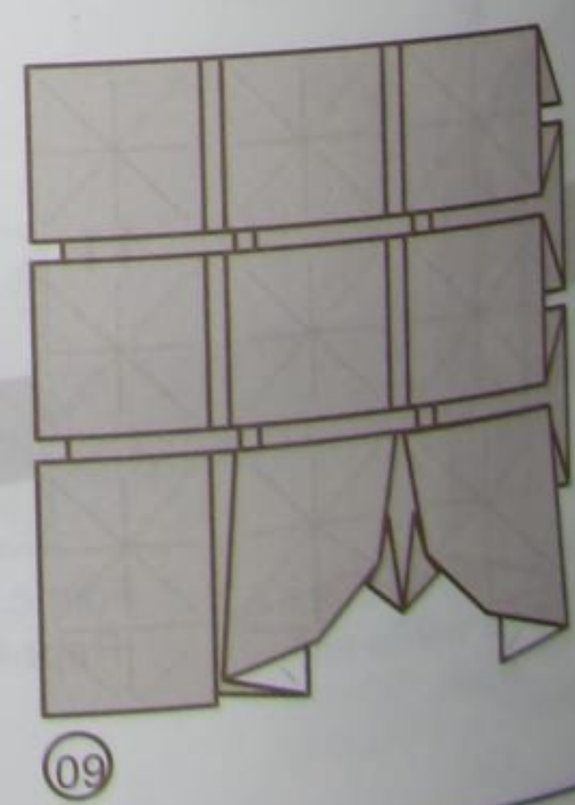



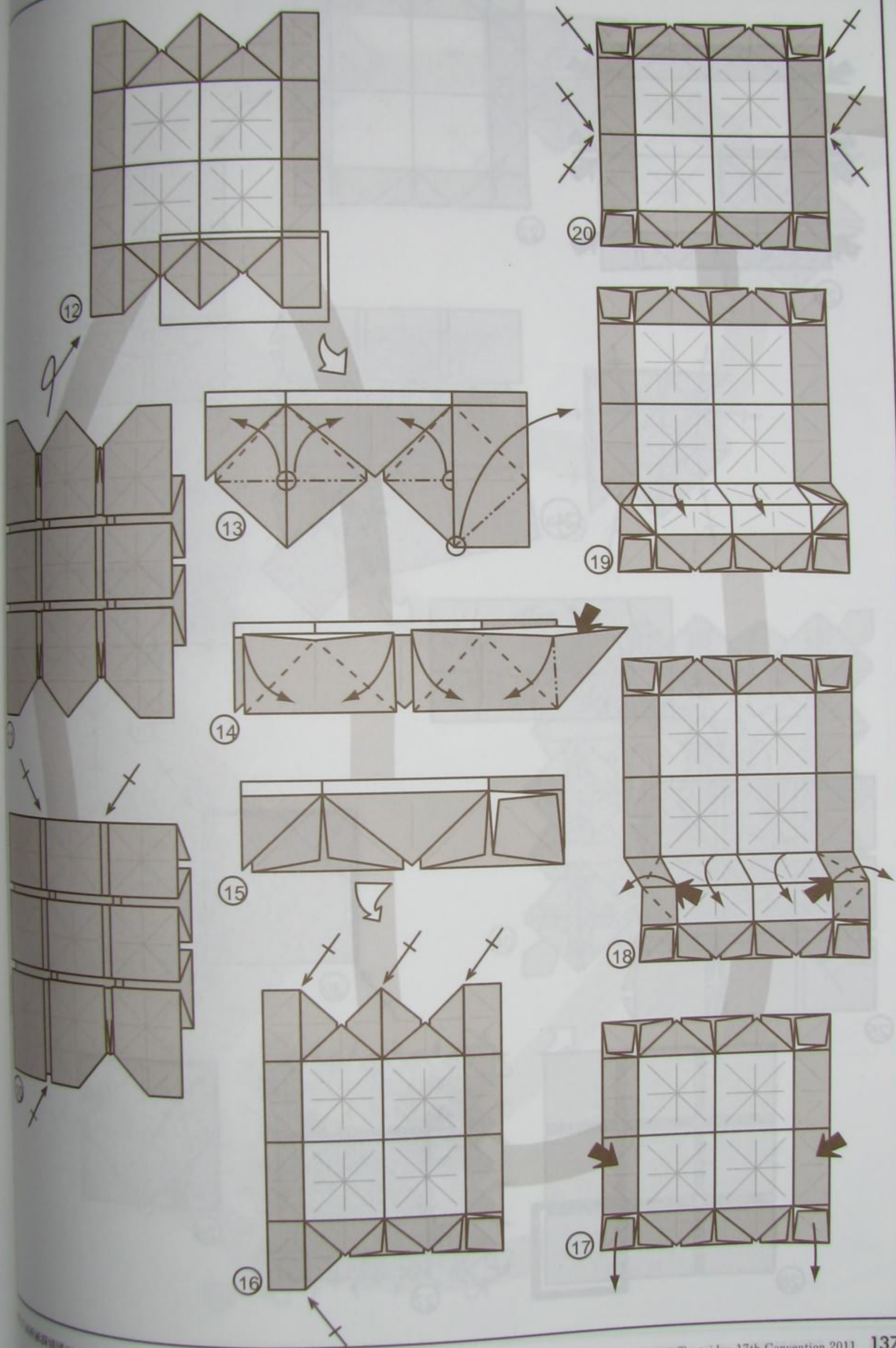



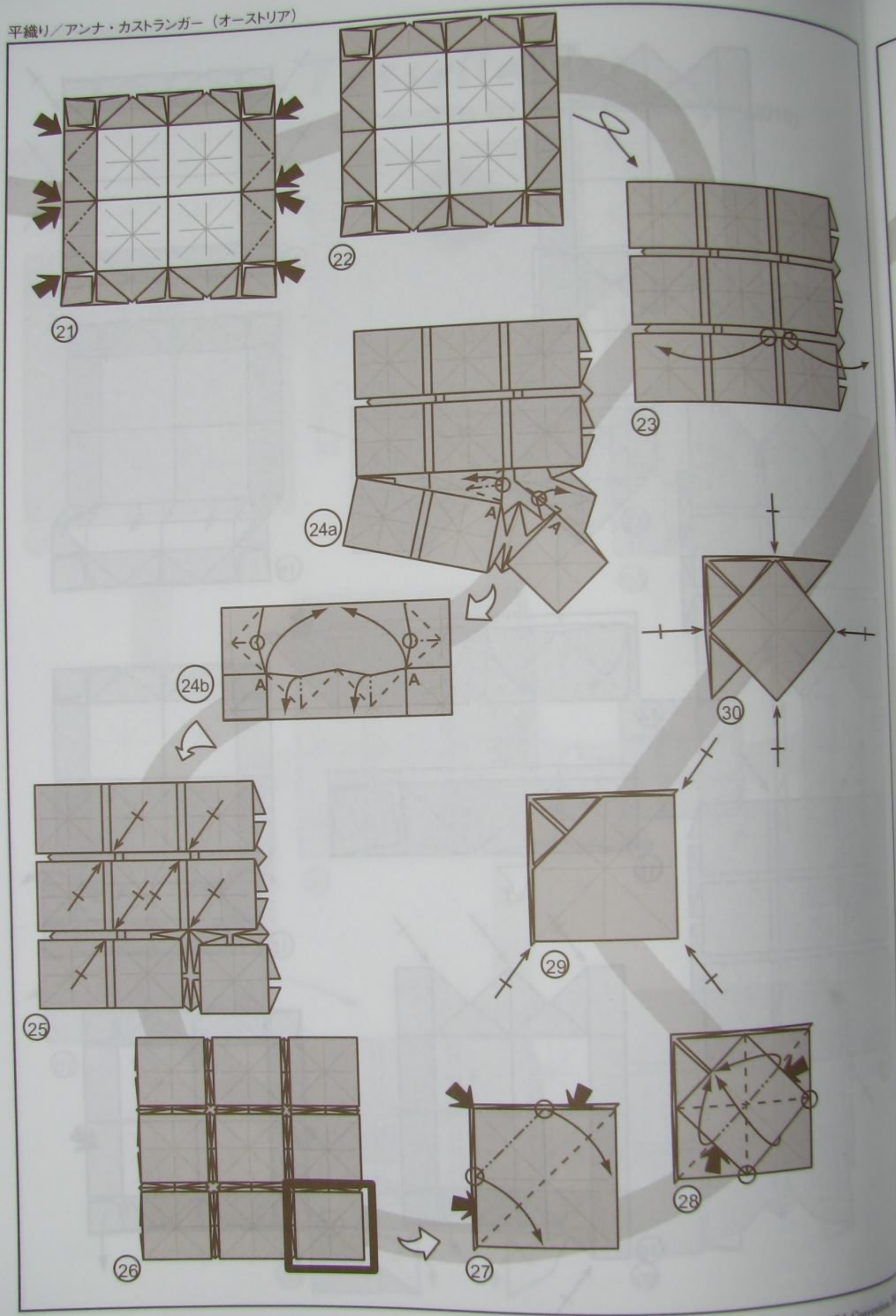



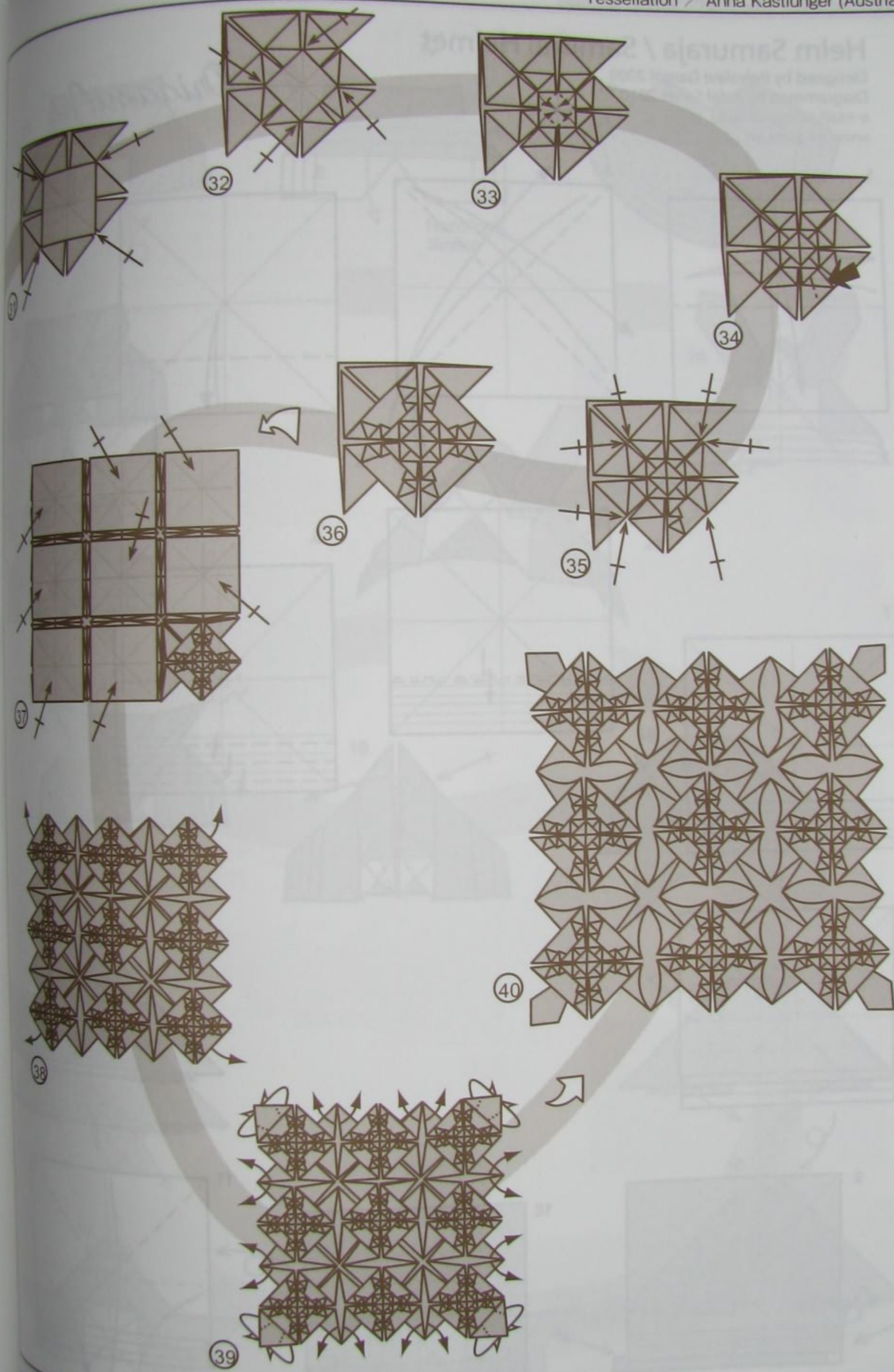




12
13
14
15
16
17
18
19
20

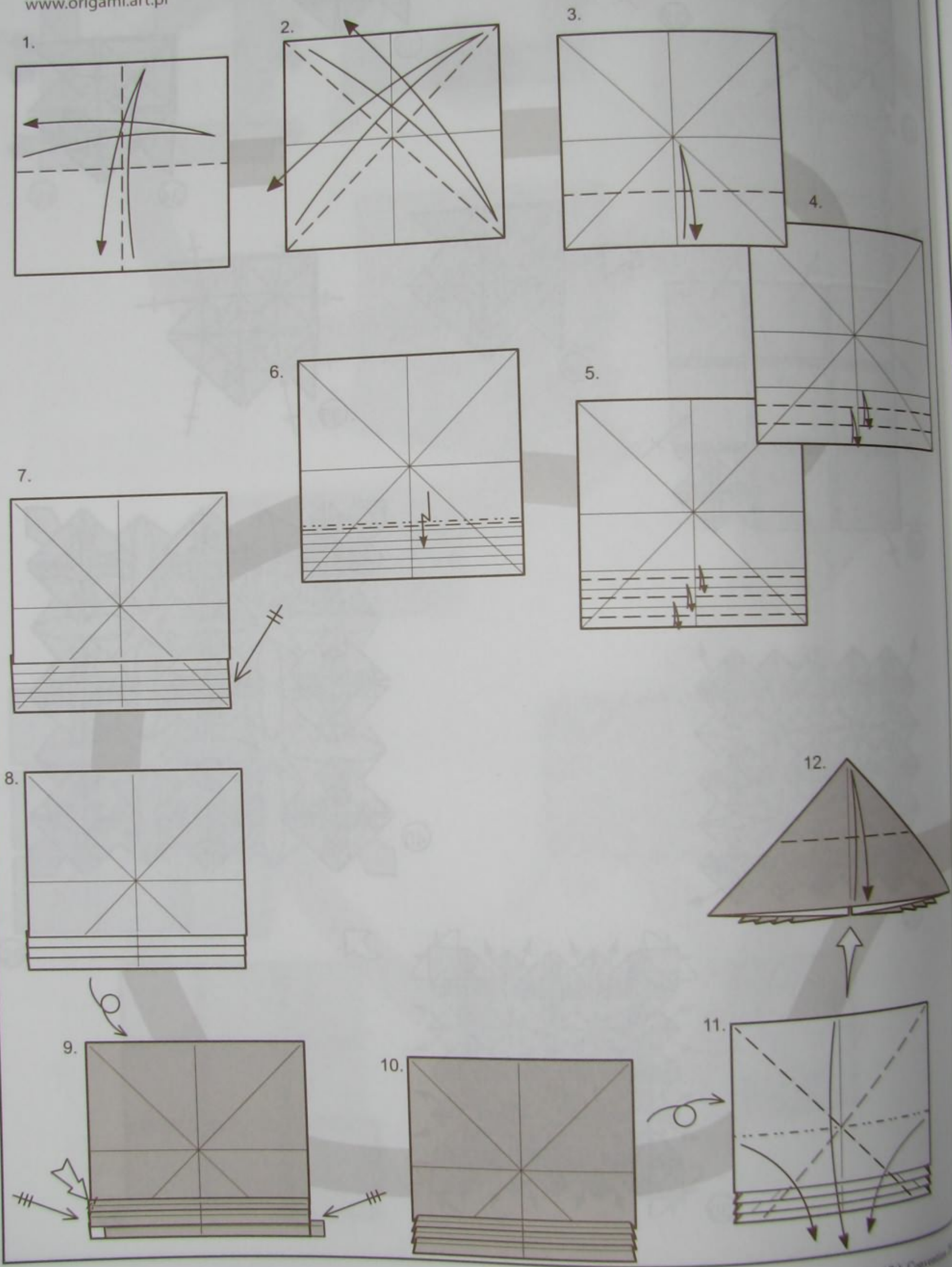

21
22
23
24a
A
A
24b
A
A
25
26
27
28
29
30

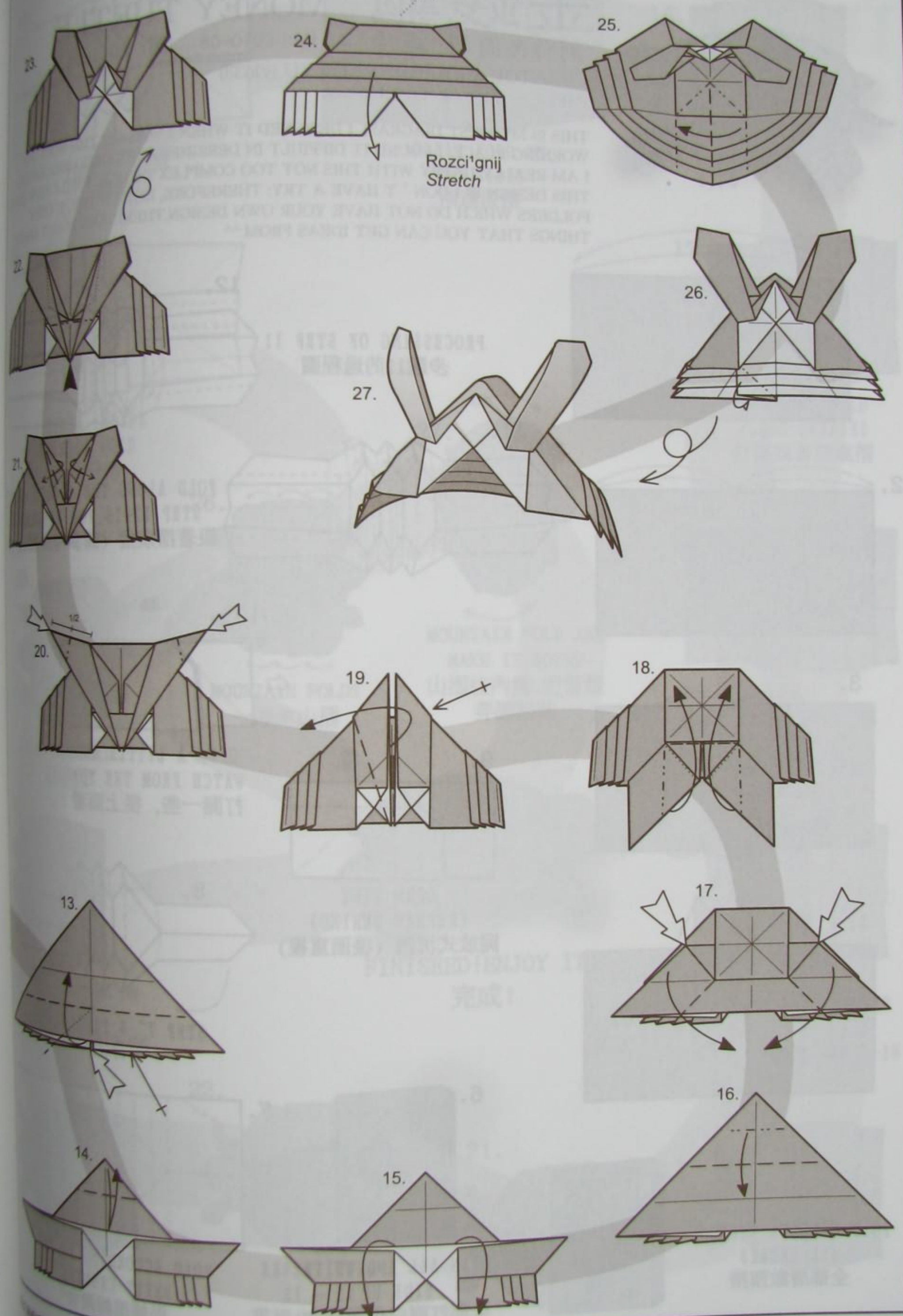

31
32
33
34
35
36
37
38
39
40

# Hełm Samuraja / Samurai Helmet

Designed by Boleslaw Gargol 2009
Diagrammed by Rafał Sabat 2010
e-mail: bolgar@wp.pl
www.origami.art.pl

OrigamiArt




23.
24.
Rozci¹gnij
Stretch
25.
22.
26.
27.
21.
1/2
20.
19.
18.
13.
17.
14.
15.
16.

# 金錢龜 MONEY TURTLE

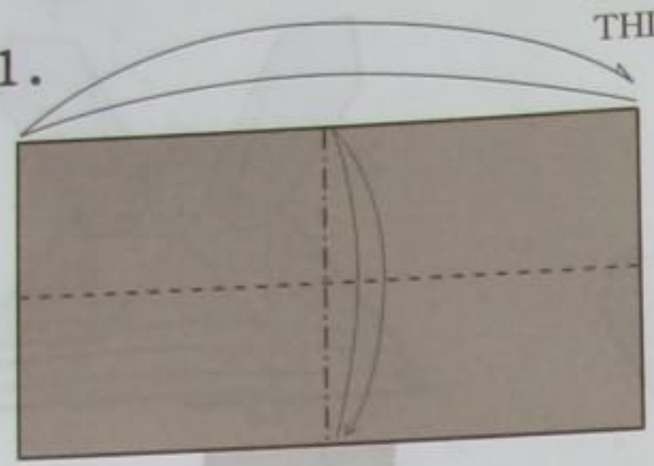
創作&圖解: 羅瑜　作: 2010-08　圖: 2011-05

CREATOR & DIAGRAM: LO YU (ylo33)

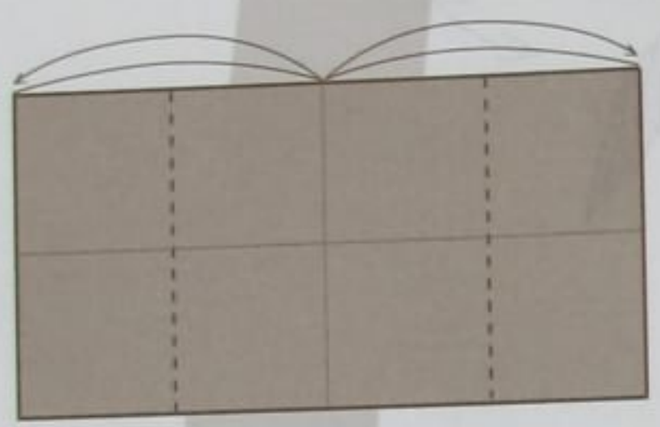
PAPER - 1:2 OR LONGER

THIS IS MY FIRST DIAGRAM. I DESIGNED IT WHEN I WAS ON THE WAY TO WORKING PLACE. I FOUND IT DIFFIULT IN DESIGNING DETAILED FIGURES,SO I AM REALLY HAPPY WITH THIS NOT TOO COMPLEX DESIGN. I WILL NOT HAVE THIS DESIGN IF I DON ' T HAVE A TRY; THEREFORE, LET ' S TRY, EVERY FOLDERS WHICH DO NOT HAVE YOUR OWN DESIGN,THERE ARE MANY MANY THINGS THAT YOU CAN GET IDEAS FROM.^^

1.



2.



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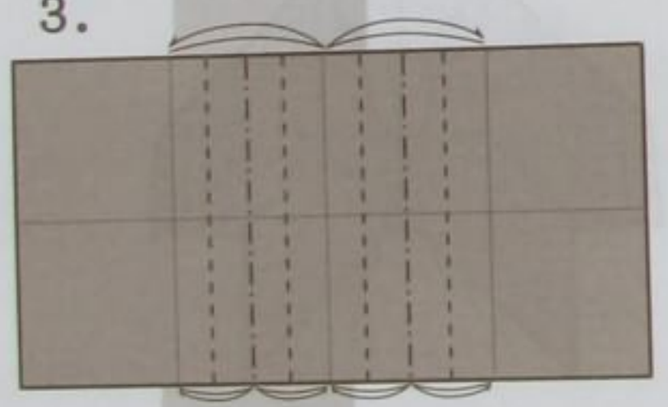

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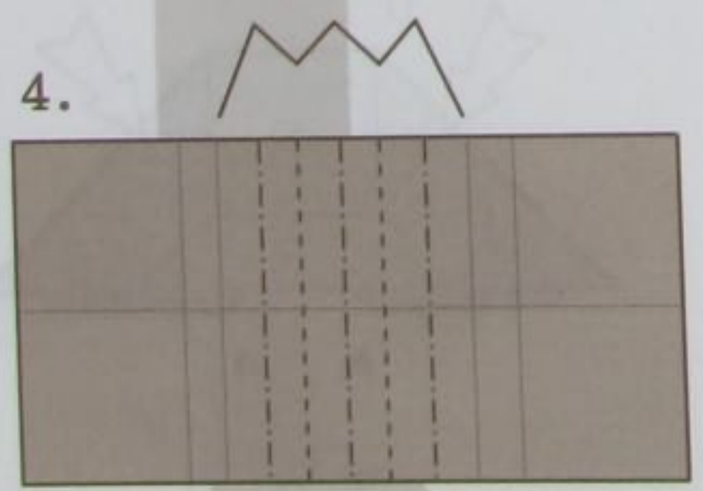


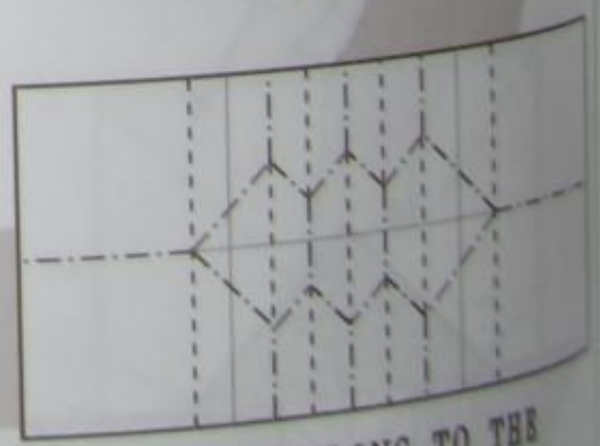
5.

FOLD CREASES THROUGH ALL LAYERS
全部層數預摺

6.

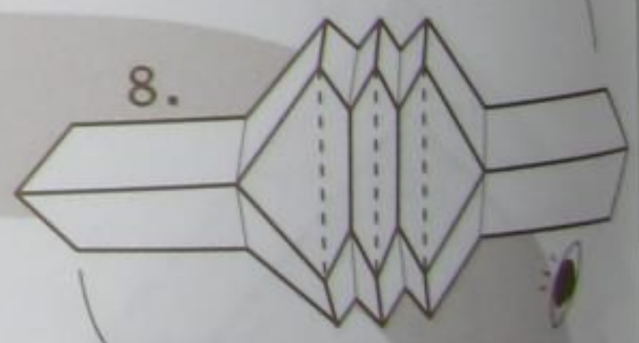
OPEN ALL AND WHITE SIDE UP
全部打開白色面向上

7.



FOLD ACCORDING TO THE EXIST CREASES
根據摺線聚合

8.

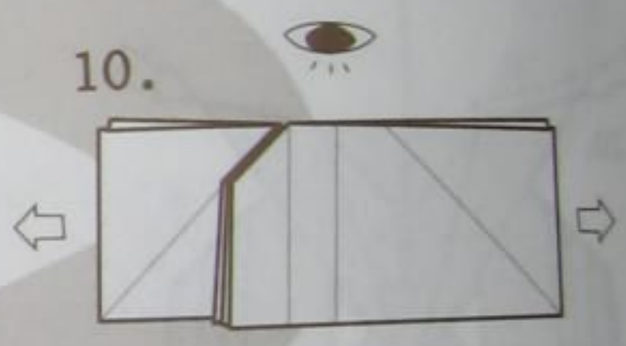


STEP 7' S PROCESSING
合上

9.

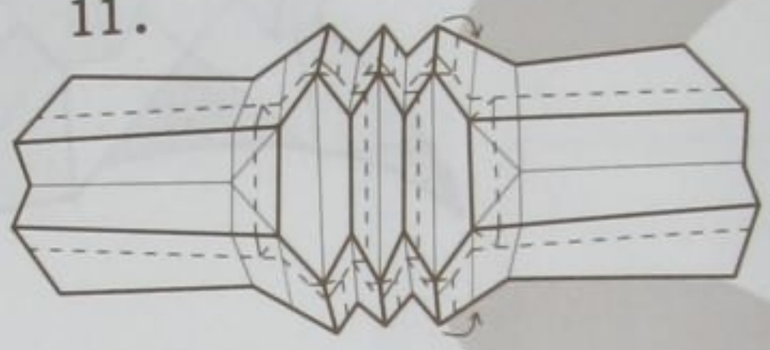
OPEN SINK
(REPEAT BEHIND)
開放式沉摺（後面重複）

10.



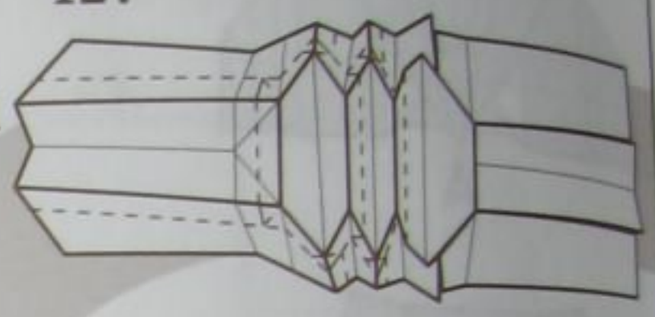
OPEN A LITTLE AND WATCH FROM THE TOP
打開一些，從上面看

11.

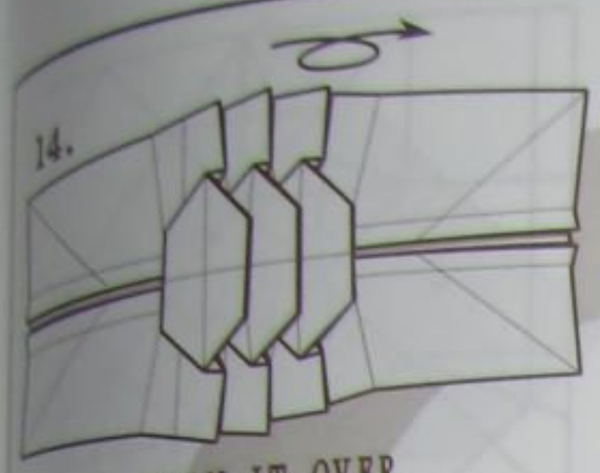


FOLD ALONG THE CREASE (WATCH STEP 12-13 FOR REFERENCE)
跟著摺痕摺（請參考步驟12-13）

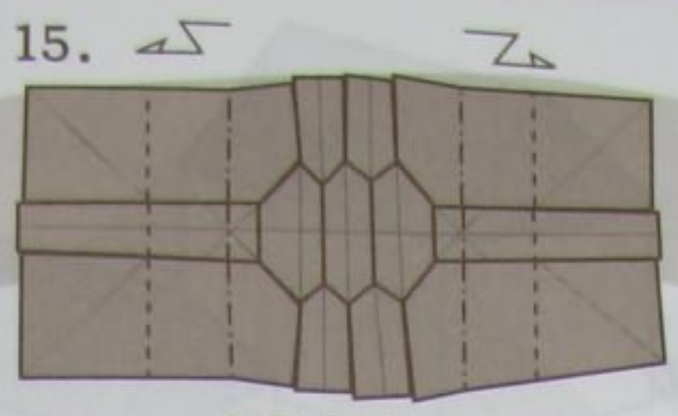
12.



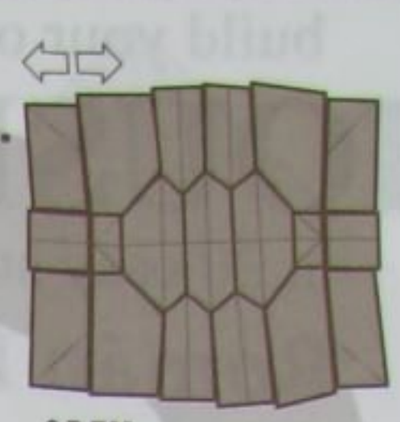
PROCESSING OF STEP 11
步驟11的過程圖



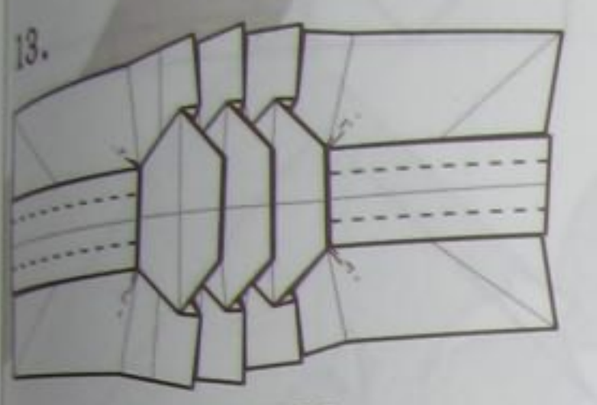

TURN IT OVER
翻轉



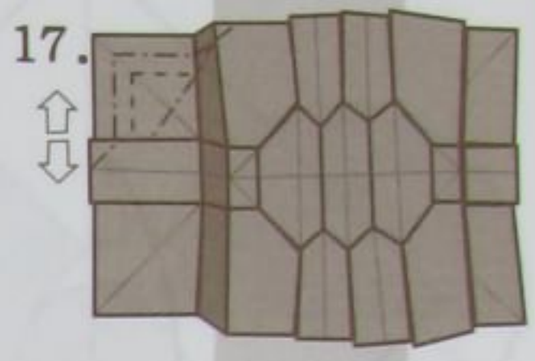

PLEAT FOLD ON
TWO SIDES
兩邊段摺



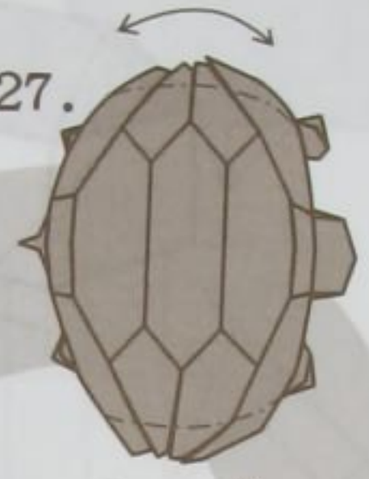

OPEN
打開



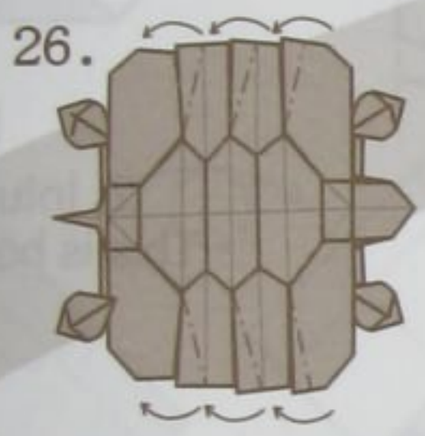

4 TIMES INSIDE
REVERSE FOLD
4次中分摺




OPEN AND FOLD
ALONG CREASES
打開跟著摺痕摺



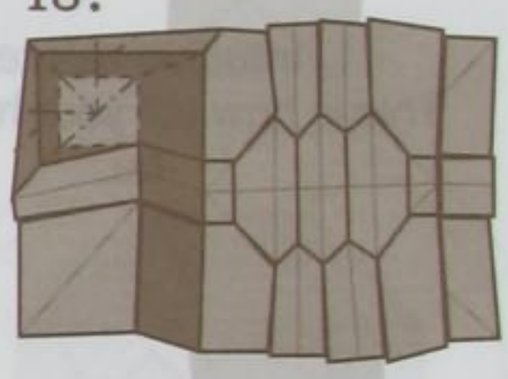

MOUNTAIN FOLD AND
MAKE IT ROUND
山摺往內塞,把整體
弄圓鼓起



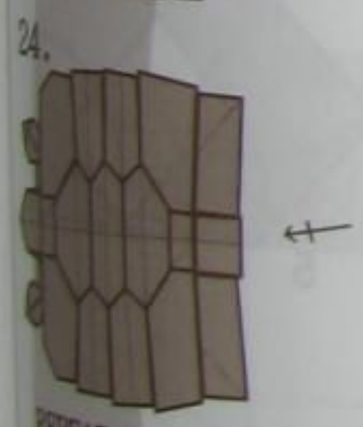

MOUNTAIN FOLDS
一連串山摺



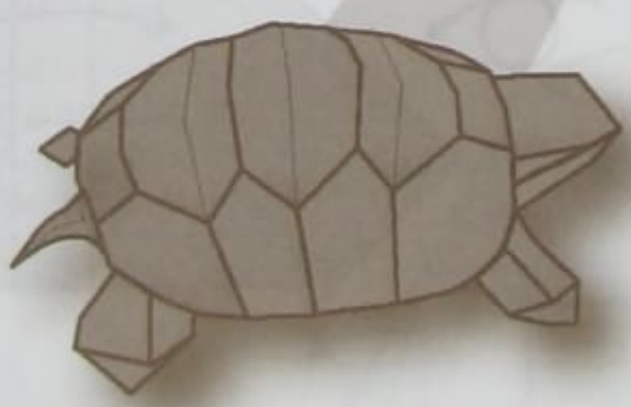

FOLD THE TAIL
摺尾巴



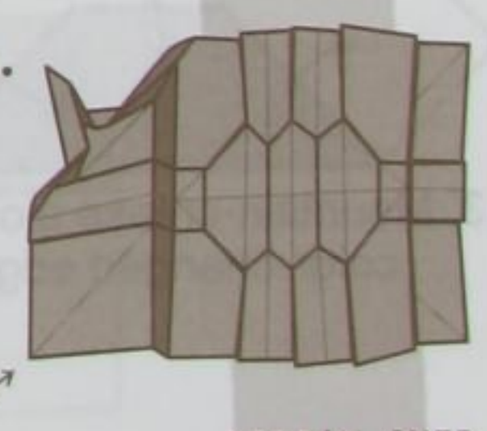

FOLD ALONG THE
CREASES
跟著摺痕聚合




REPEAT 17 - 25 ON
THE RIGHT.
往右邊重複步驟17-25

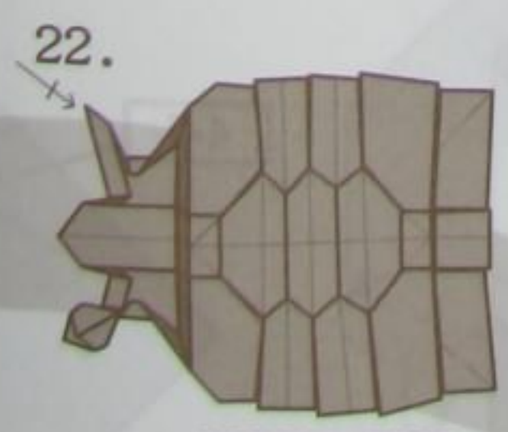


FINISHED!ENJOY IT!
完成!

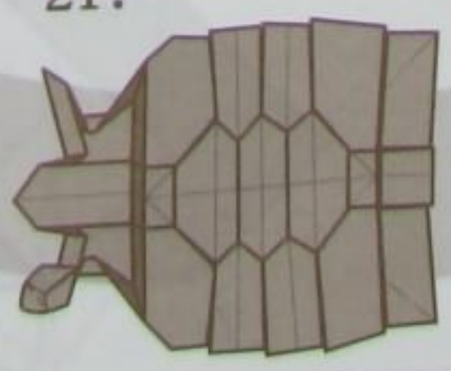


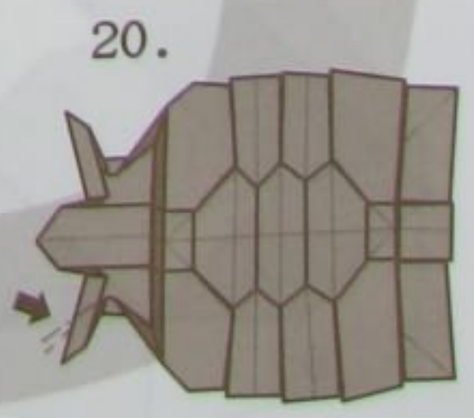

REPEAT STEP
17 - 18
重複步驟17-18

CLOSE IT
合上




REPEAT STEP
21 - 22
重複步驟21-22



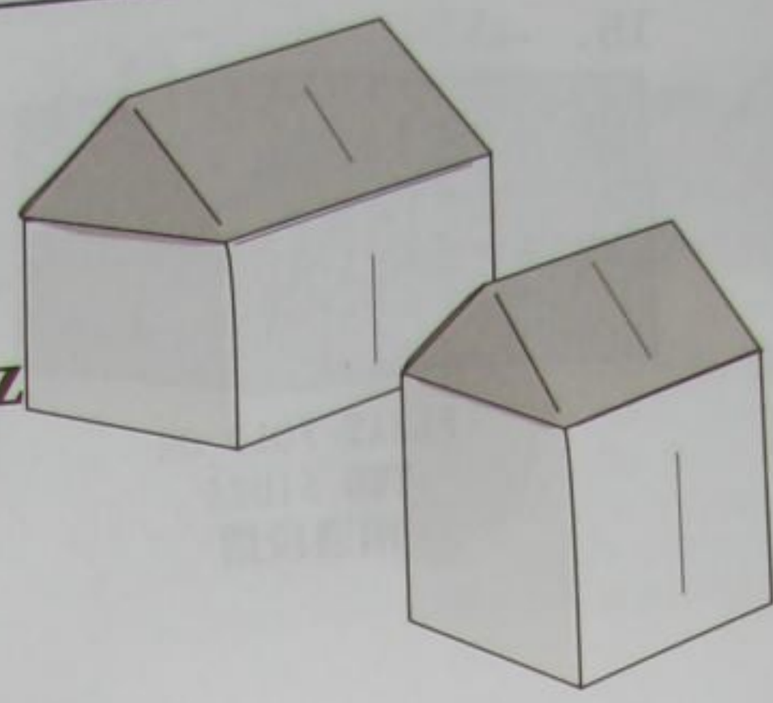
吉野一生基金招待作家 家／ロマン・ディアス（ウルグアイ）

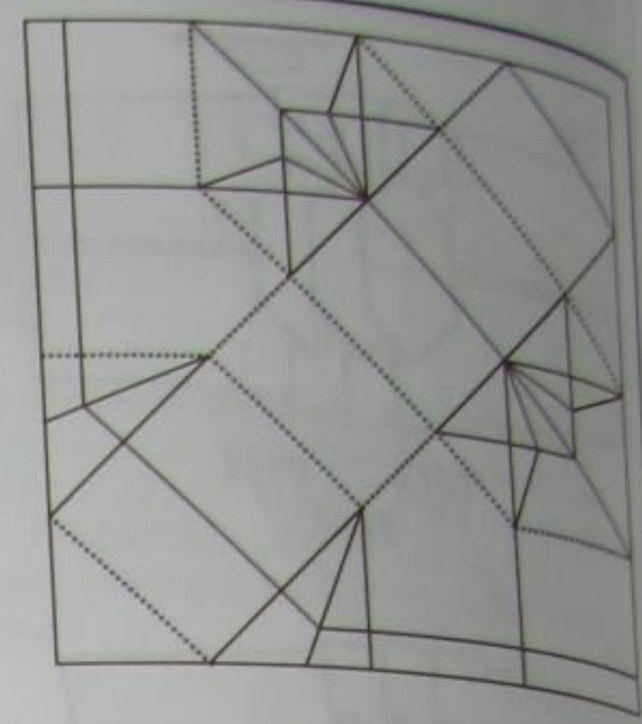
build your own

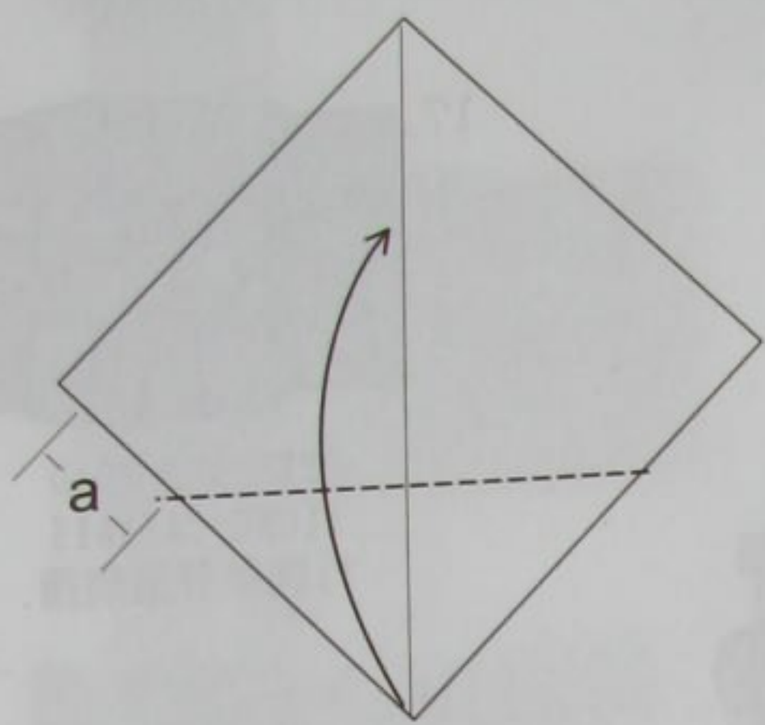
# HOUSE

in 20 easy steps

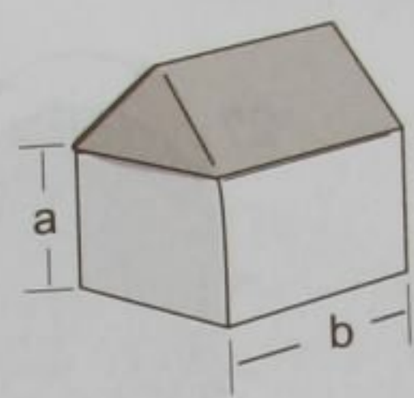
**Román Díaz**

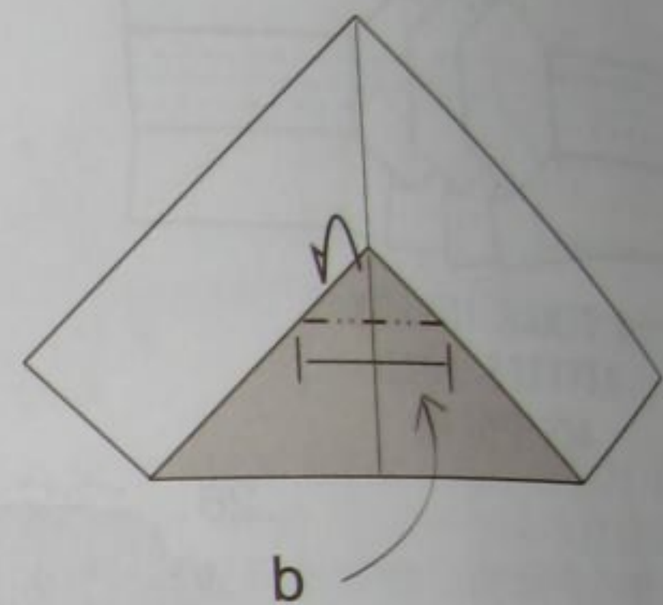




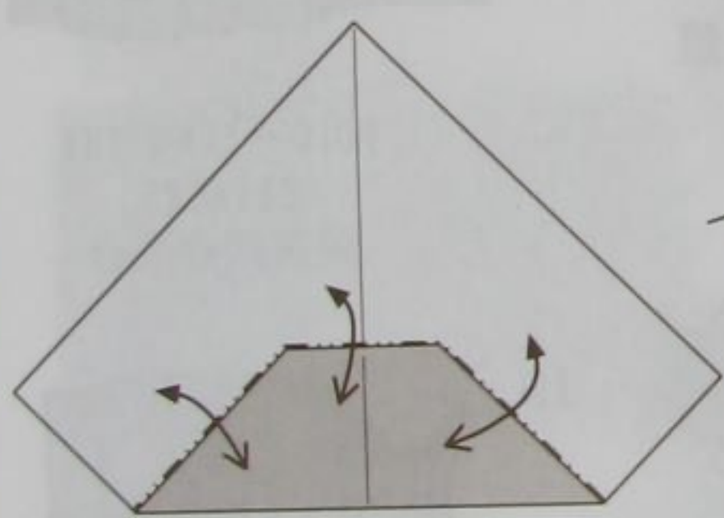



1. Intuitive reference.
This is how tall your house will be.

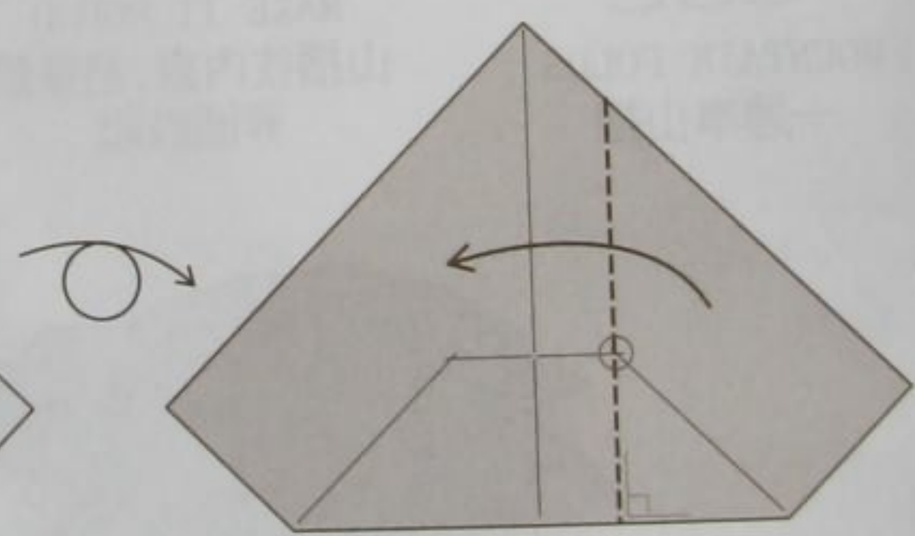



2. Intuitive reference.
This is how long your house will be.



3. Mountain-crease along the color-changed edge.



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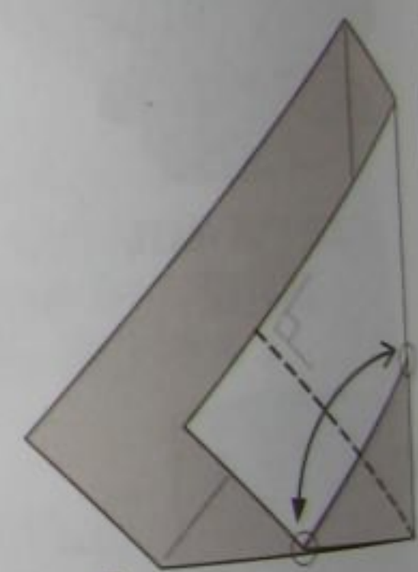

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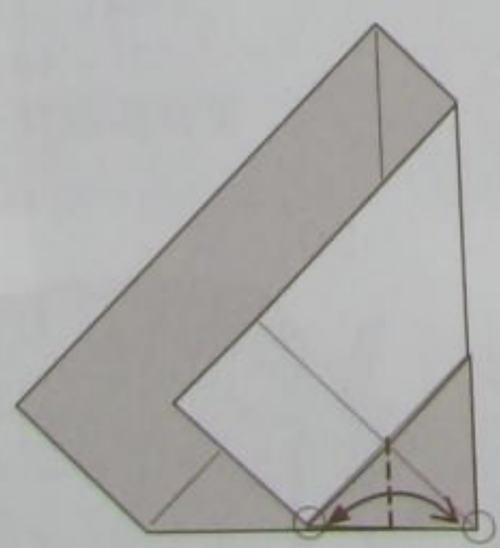

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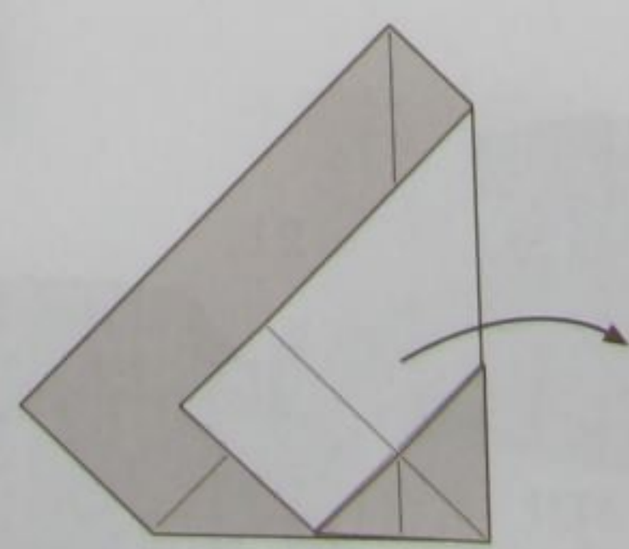

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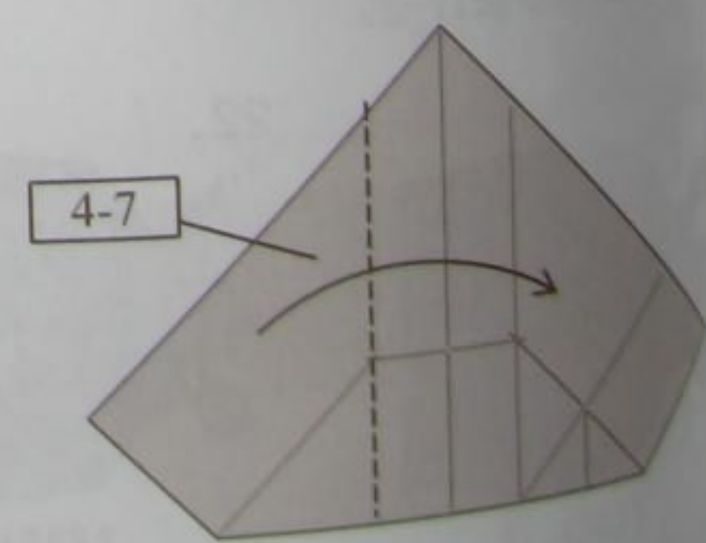


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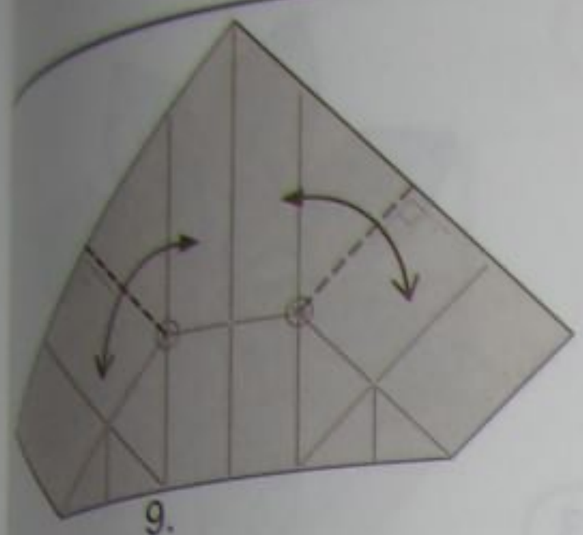
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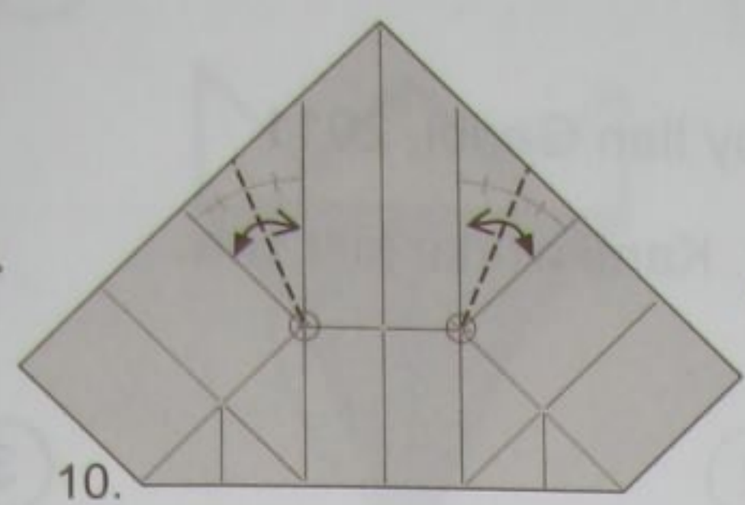
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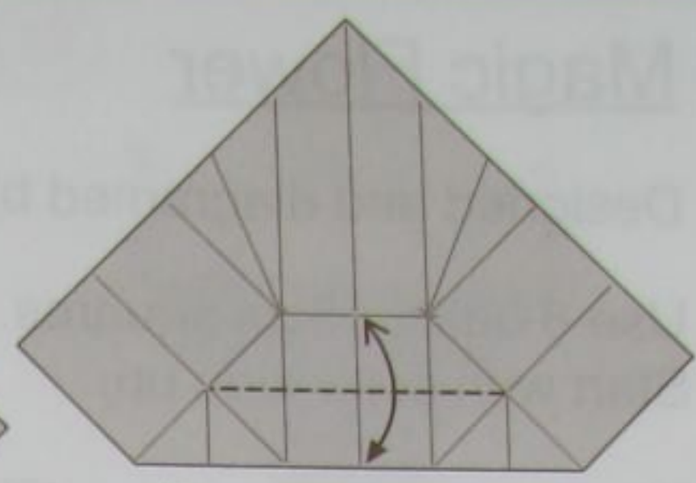
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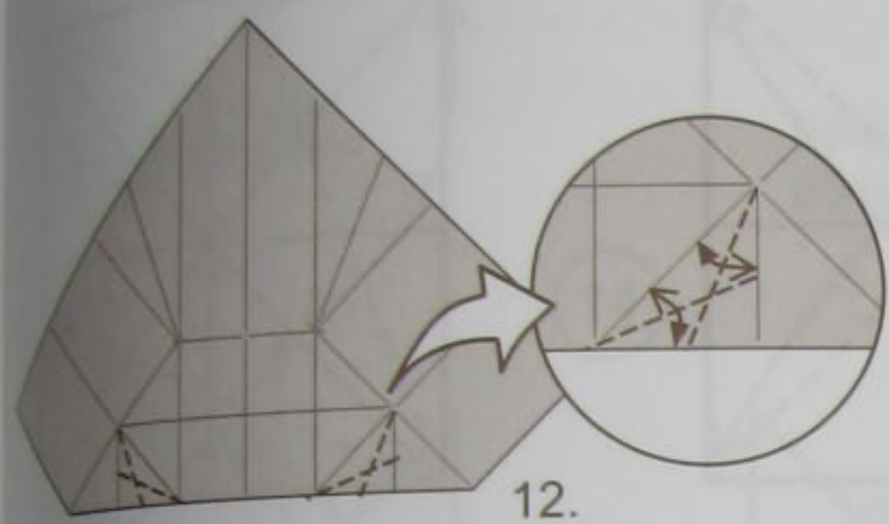
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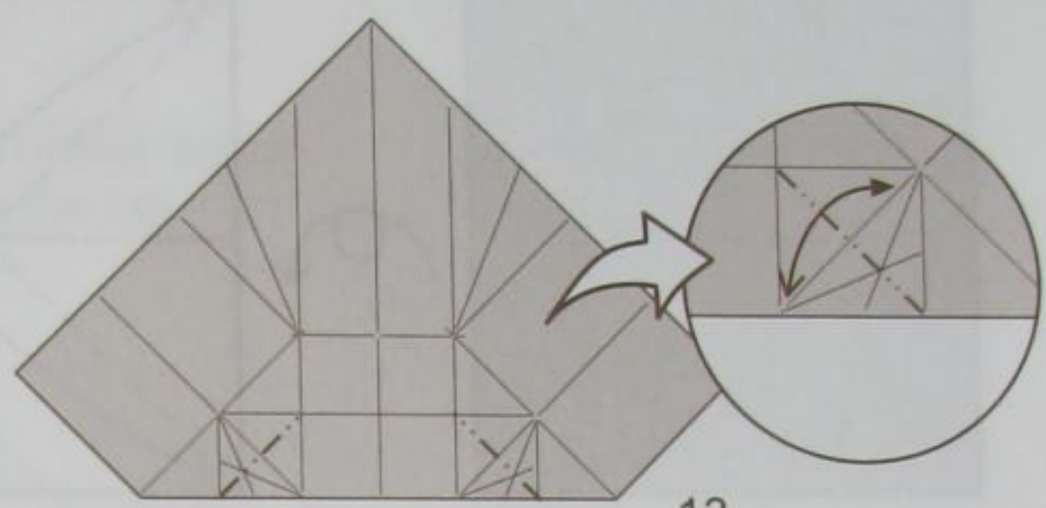
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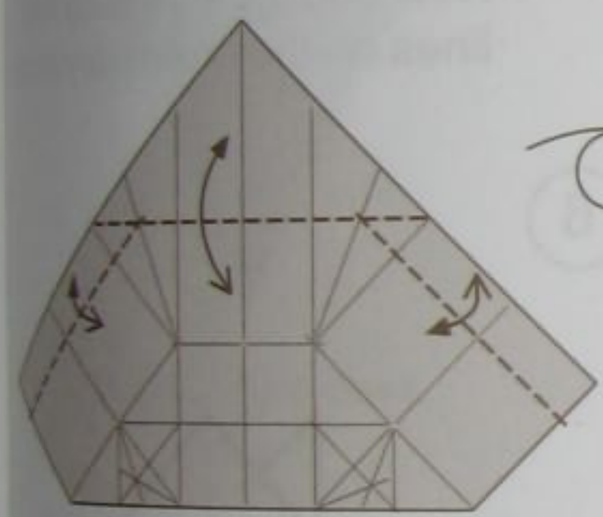
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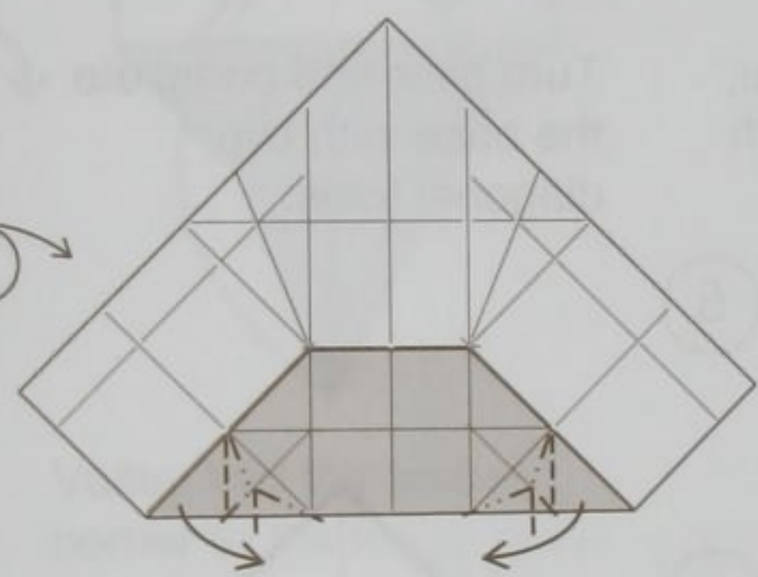
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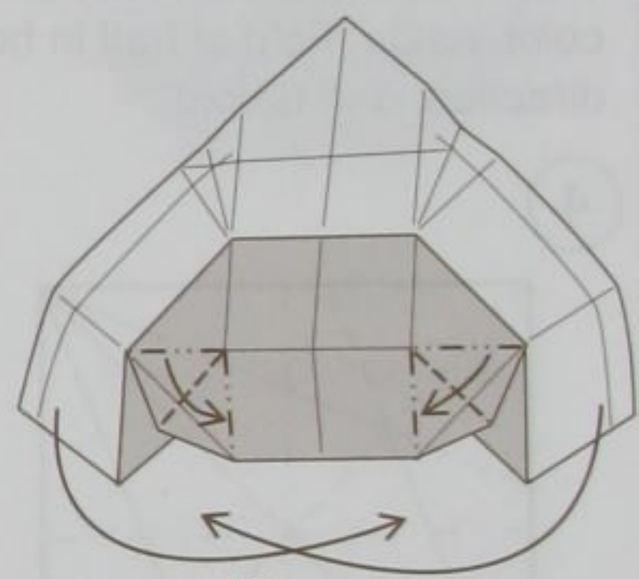
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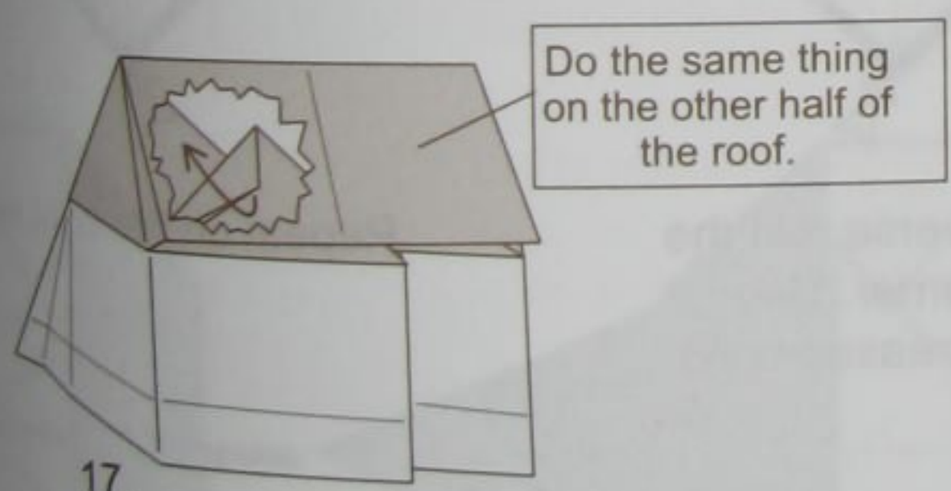

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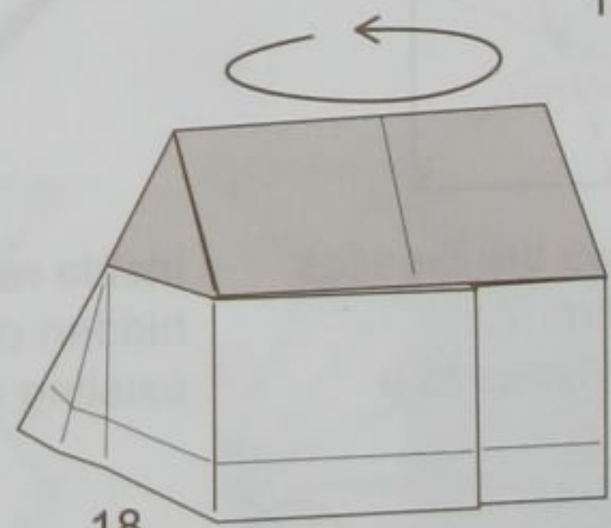
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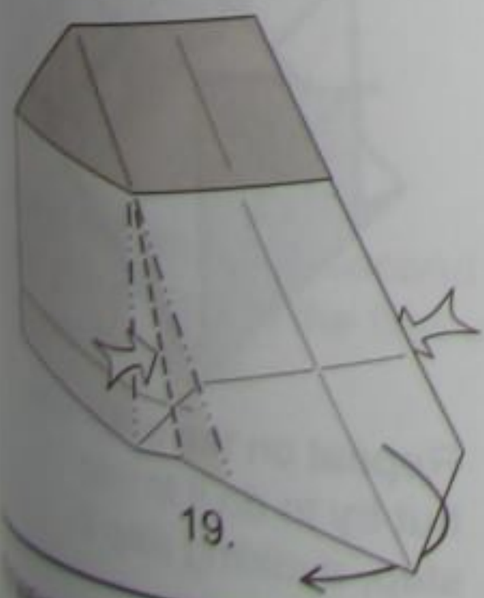
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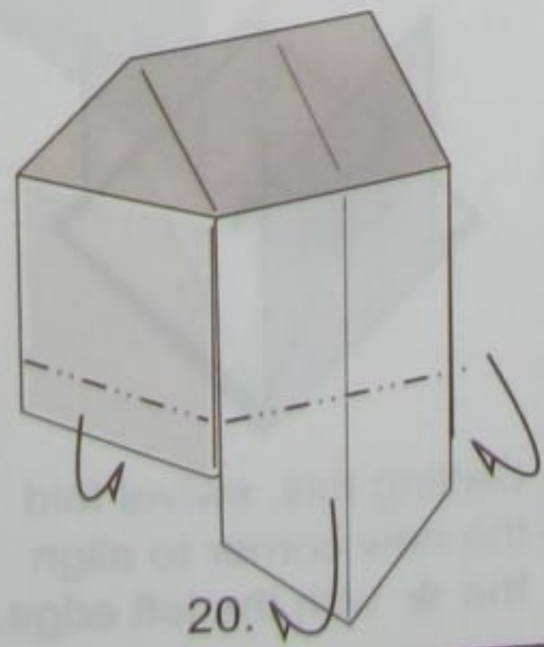
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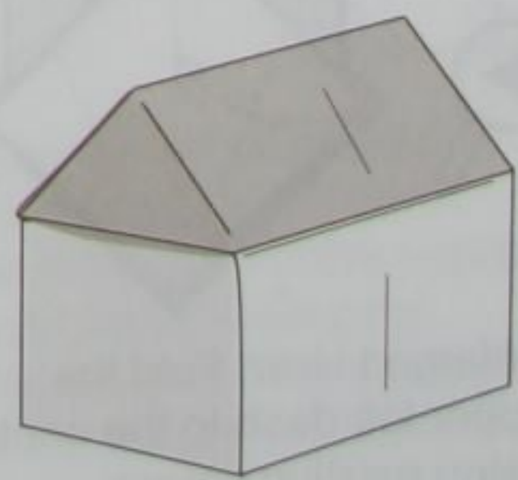
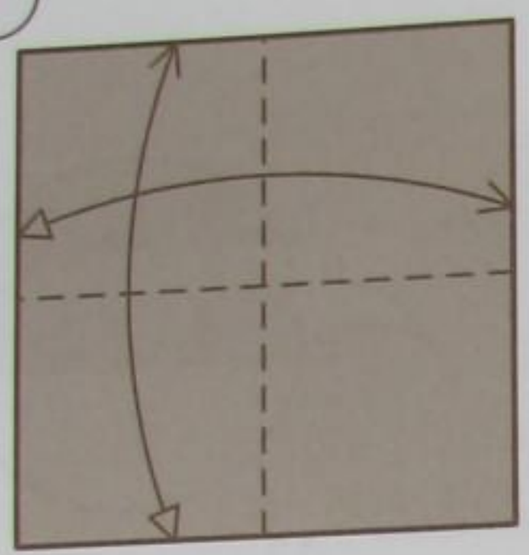


# Magic Flower

Designed and diagramed by Ilan Garibi, 2011

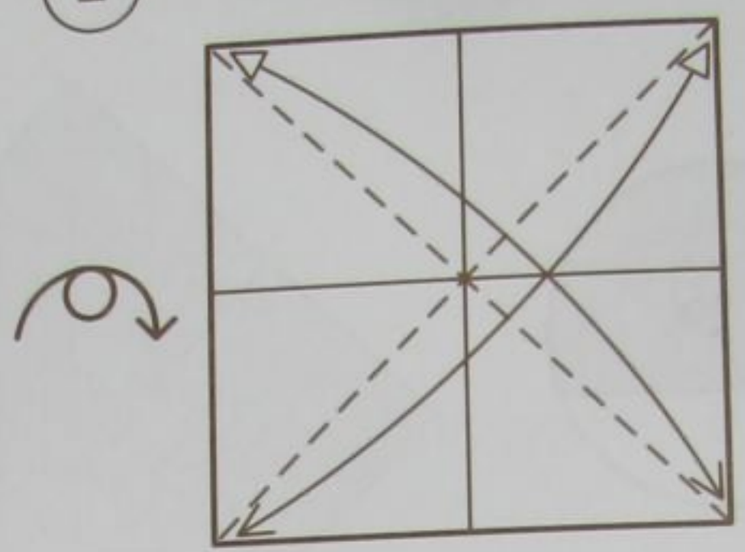
Use 8 units, 15cm squares. Kami works just fine.
Start with color side up.

1



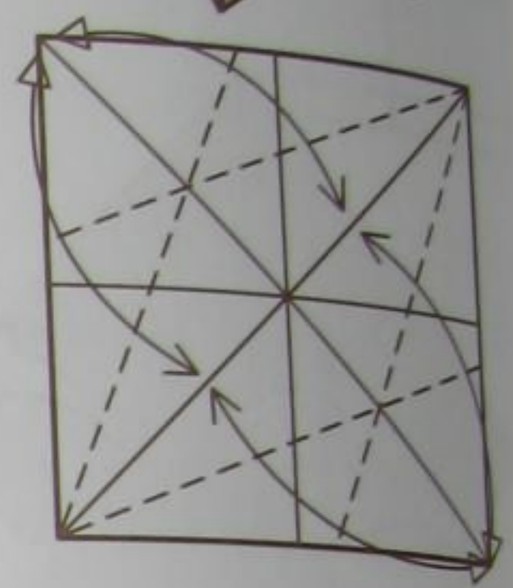
Start to fold a preliminary base, color inside. Fold in half in both direction, and unfold.

2



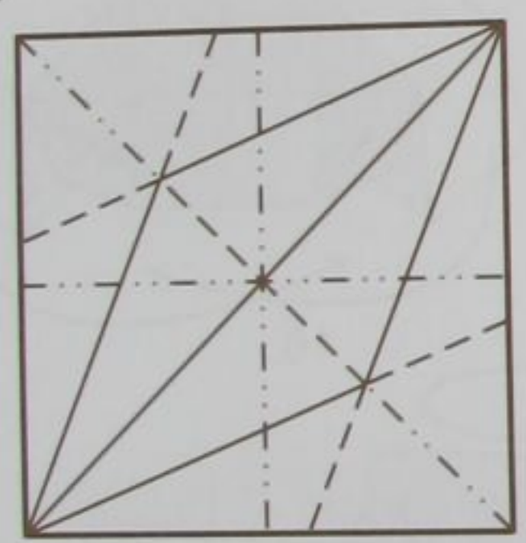
Turn over and complete the base with two diagonal folds.

3



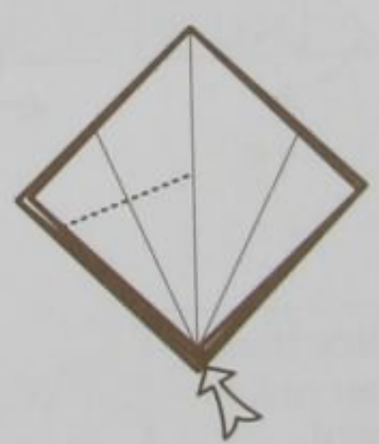
Now add the Fish base fold lines on the preliminary base.

4



The CP here shows the creases to get directly to step 7. Otherwise, just collapse to a preliminary base.

5

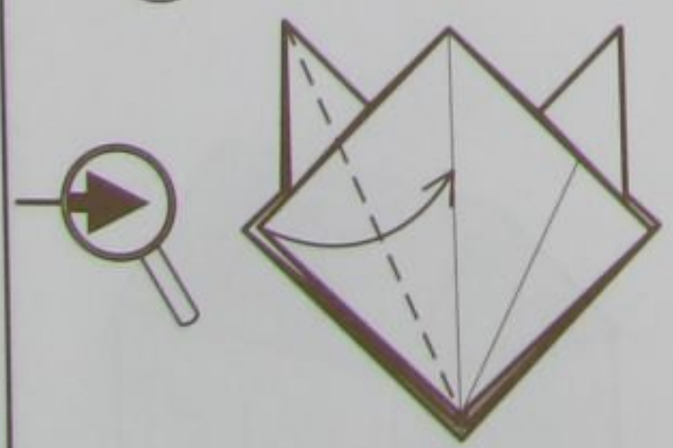


Inside reverse fold the hidden corner. Use existing creases only!

6

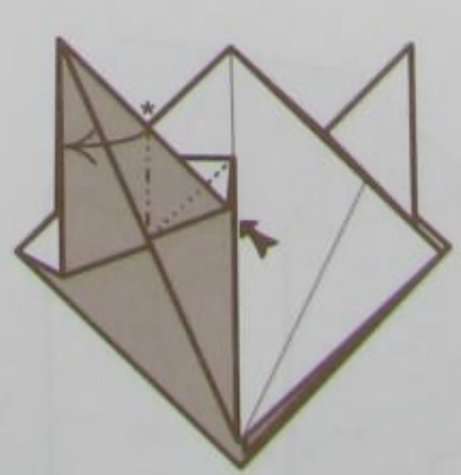
Repeat on the right side.

7



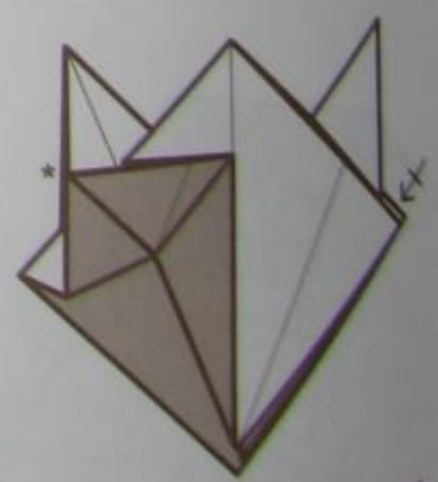
Enlarged view. Fold the upper left dash to the center, using existing crease.

8



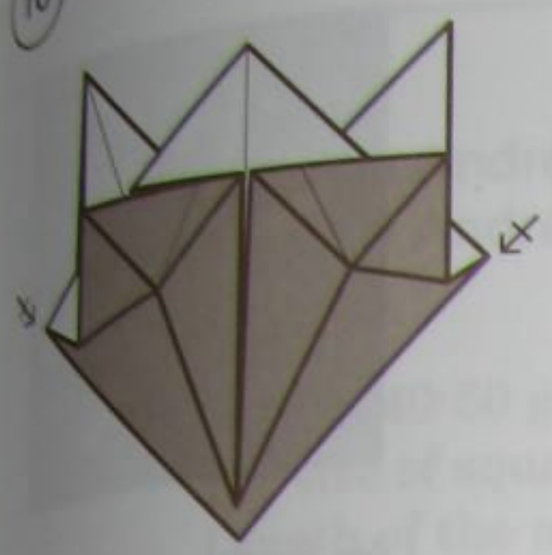
Getting this, swivel fold the new corner to align the * with the left edge.

9



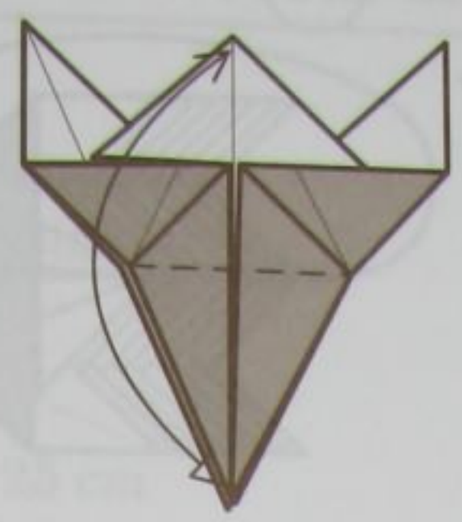
Repeat on the other side but try to do it in one step, avoiding step 8.

10



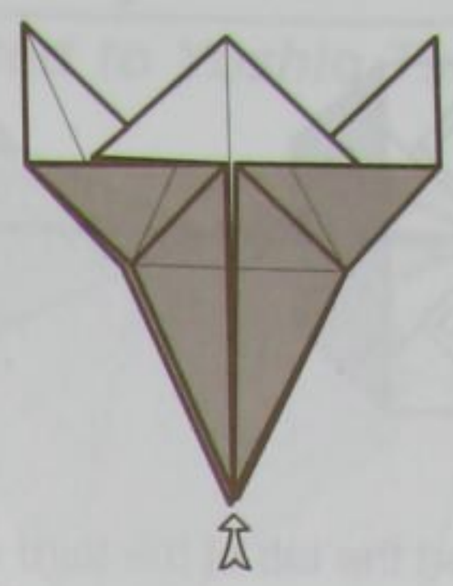
Repeat behind.

11



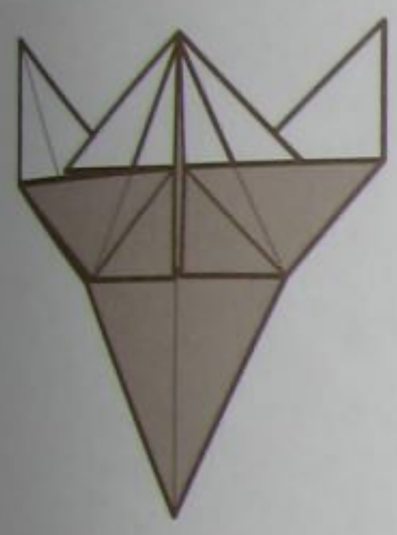
Fold and unfold bottom corner to the top.

12



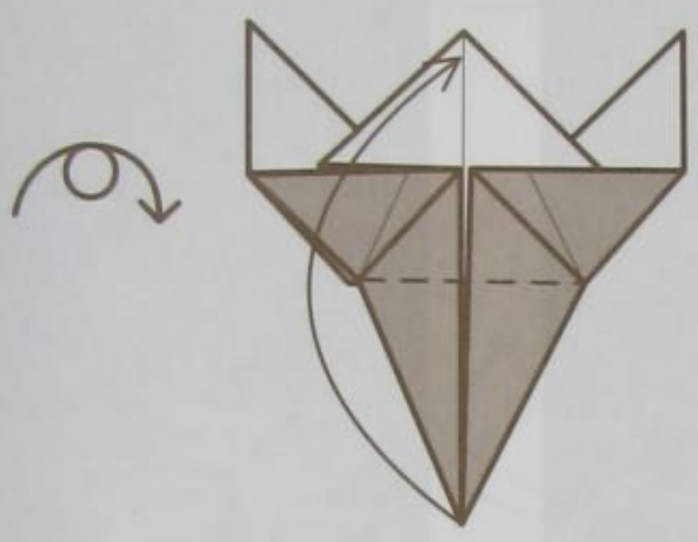
Sink the bottom corner to create a pocket.

13



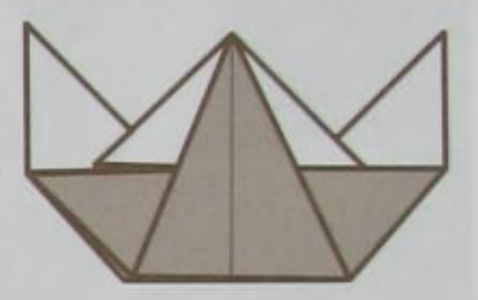
Like that. Turn over.

14



Valley fold the bottom corner to the top to get a tab.

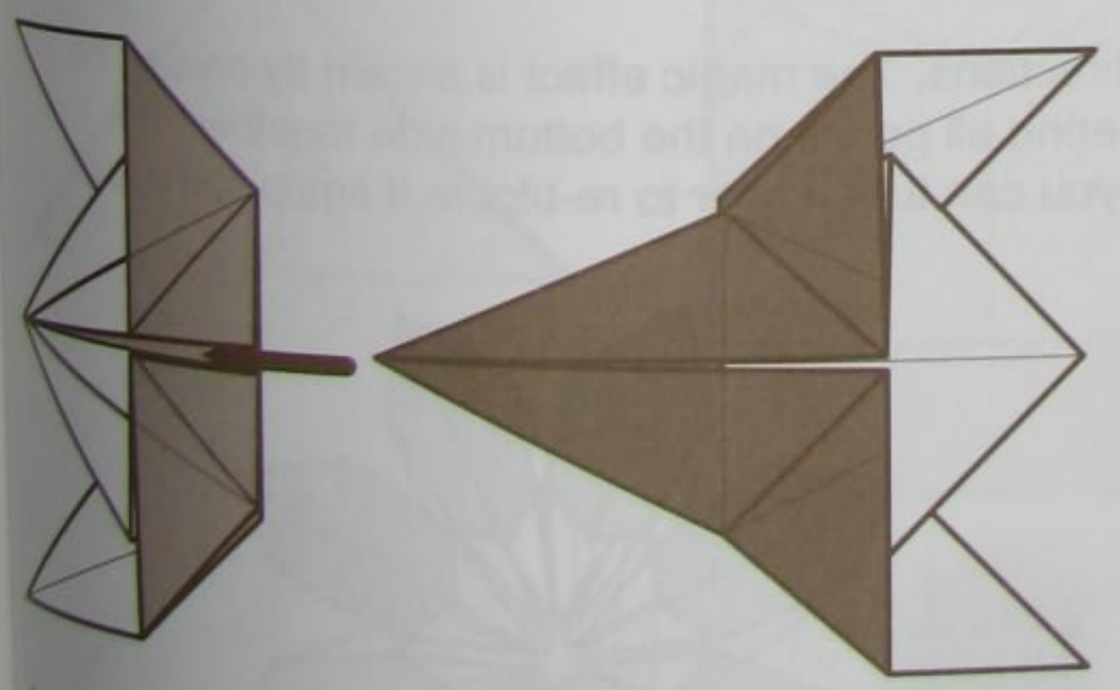
15



This is the final unit.

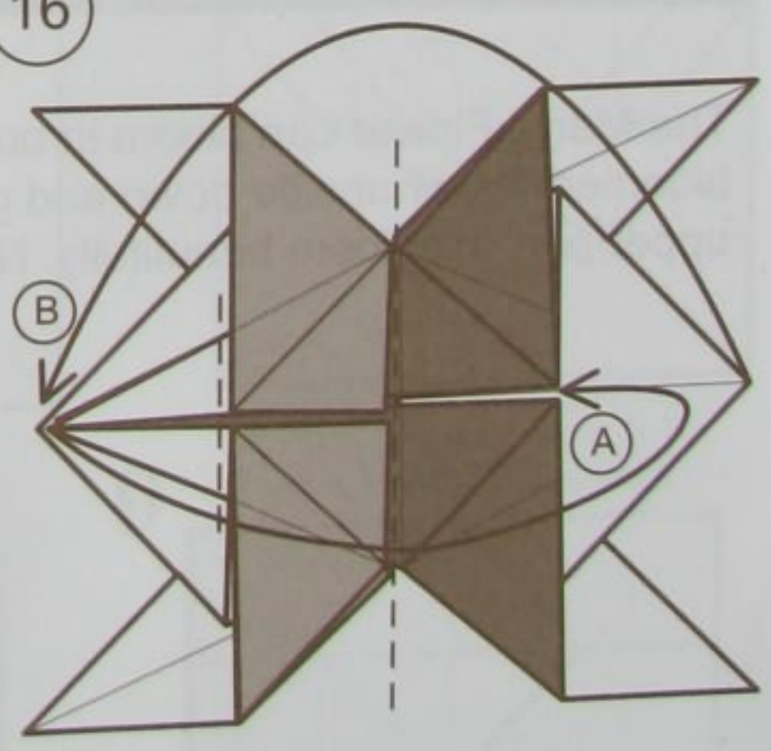
## Assembly

15



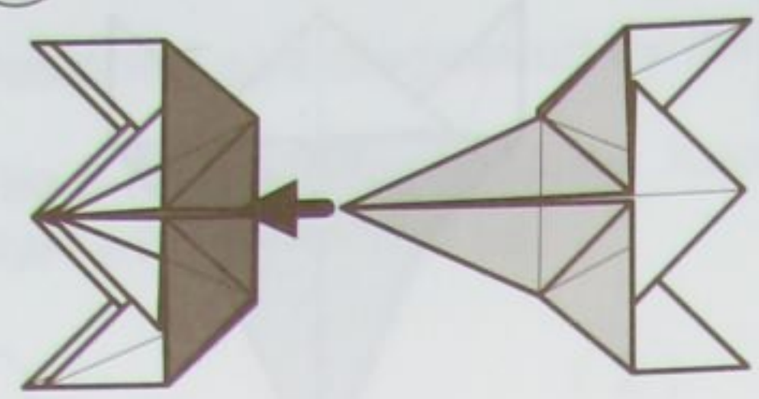
Insert the tab of the second unit into the pocket of the first unit, corner to corner.

16



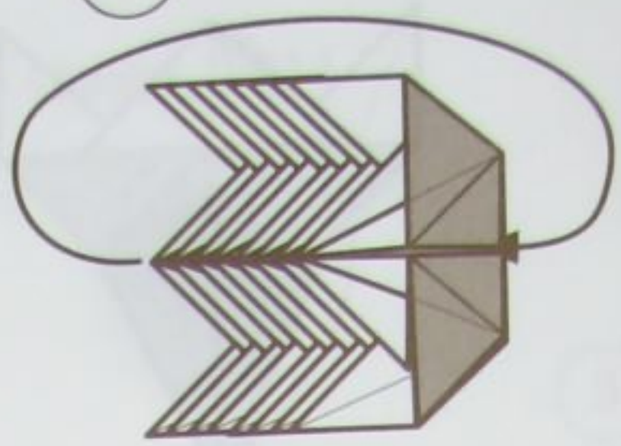

To lock, fold the left combined corners to the right and insert it behind the front layer of the second unit (step A), while folding the second unit body to the left (step B), to expose the second unit pocket.

17



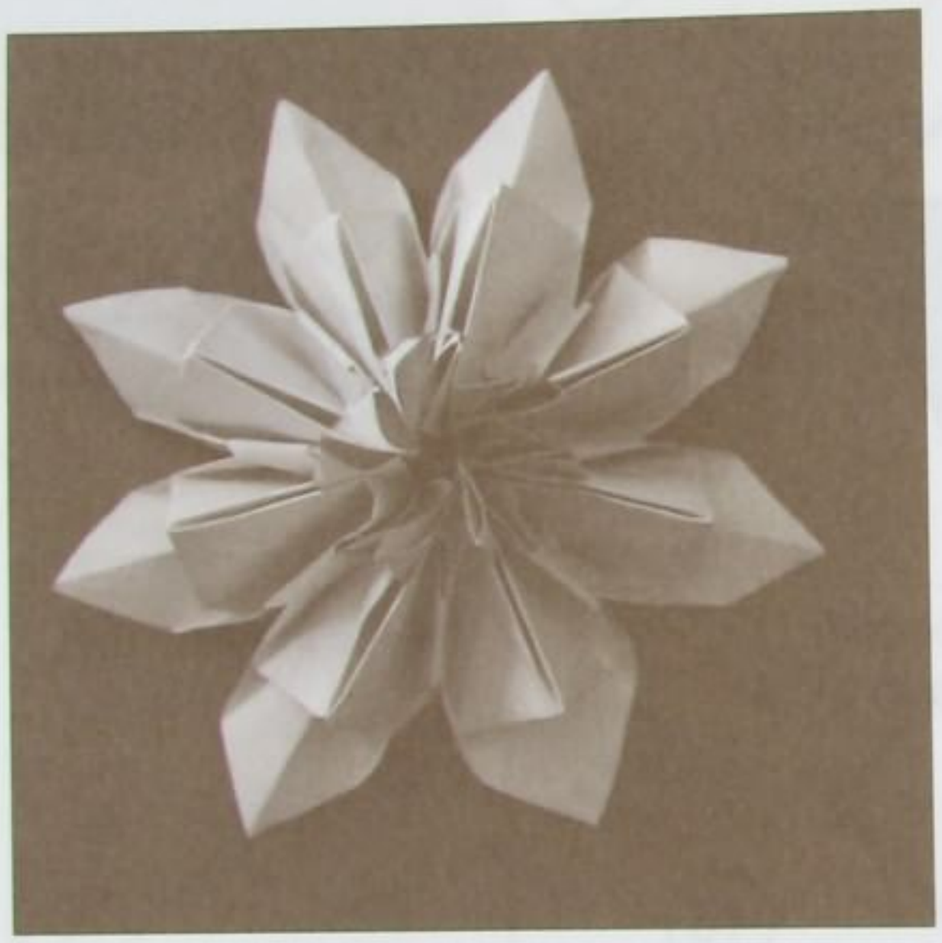
Insert the tab of the third unit into the pocket of the second unit, corner to corner. Lock and fold as with the previous two units.

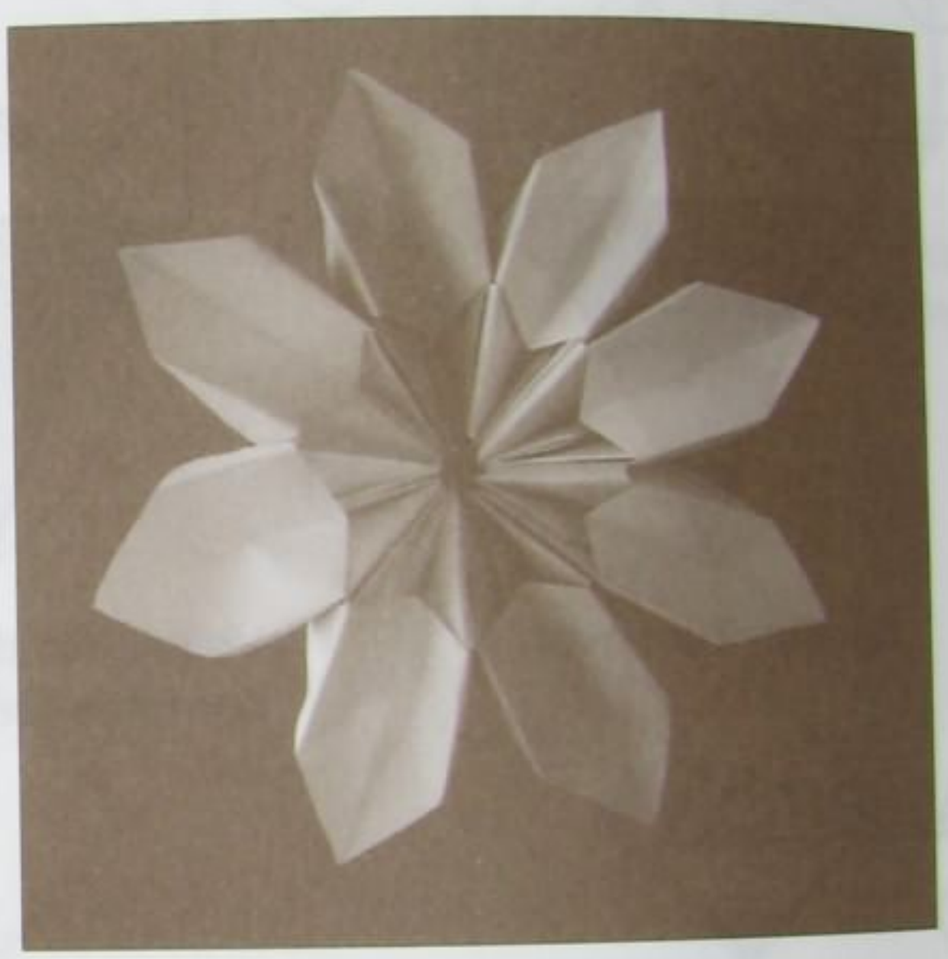
18



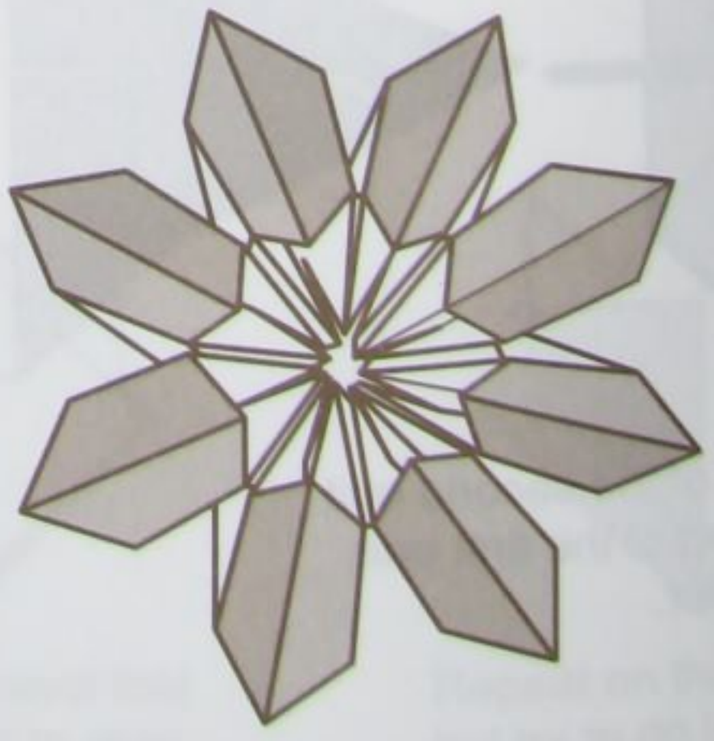
After joining 8 units, insert the first unit tab into the last unit pocket, to make a ring.

Like that.





The Magic Flower can bloom in both directions. The magic effect is shown by holding the bloomed flower upside down and gathering all petals on the bottom side together. The upper part will bloom beautifully. Now you can turn it over to re-bloom it again and again!.



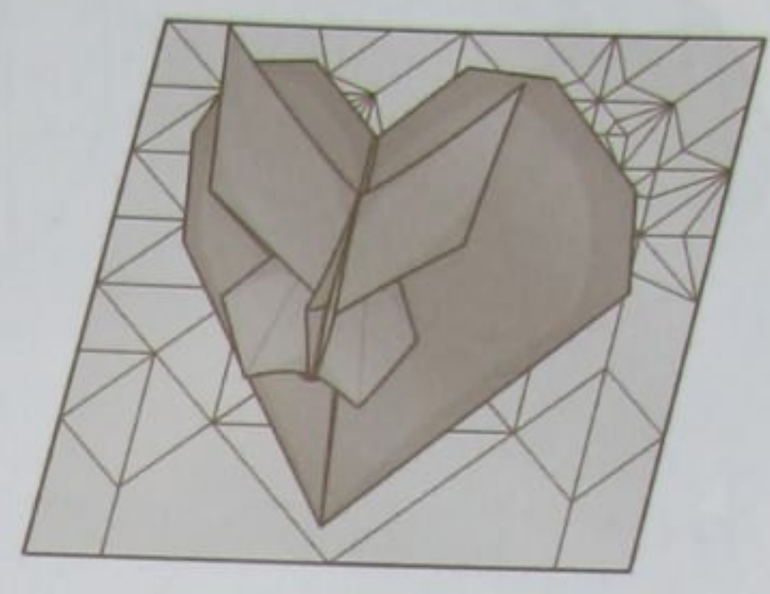
http://www.flickr.com/photos/garibiilan/
garibiilan@gmail.com

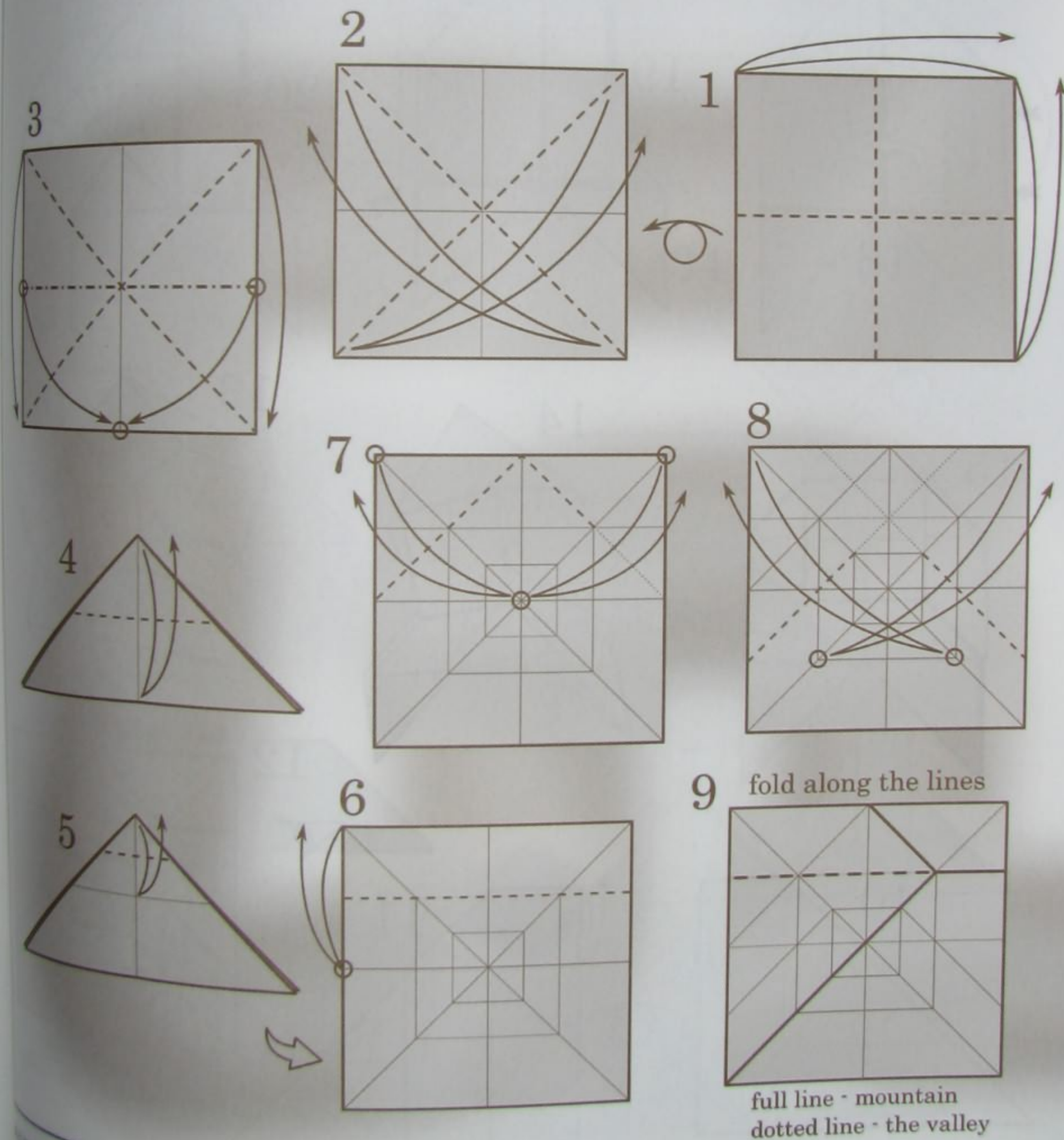
# Heart with butterfly

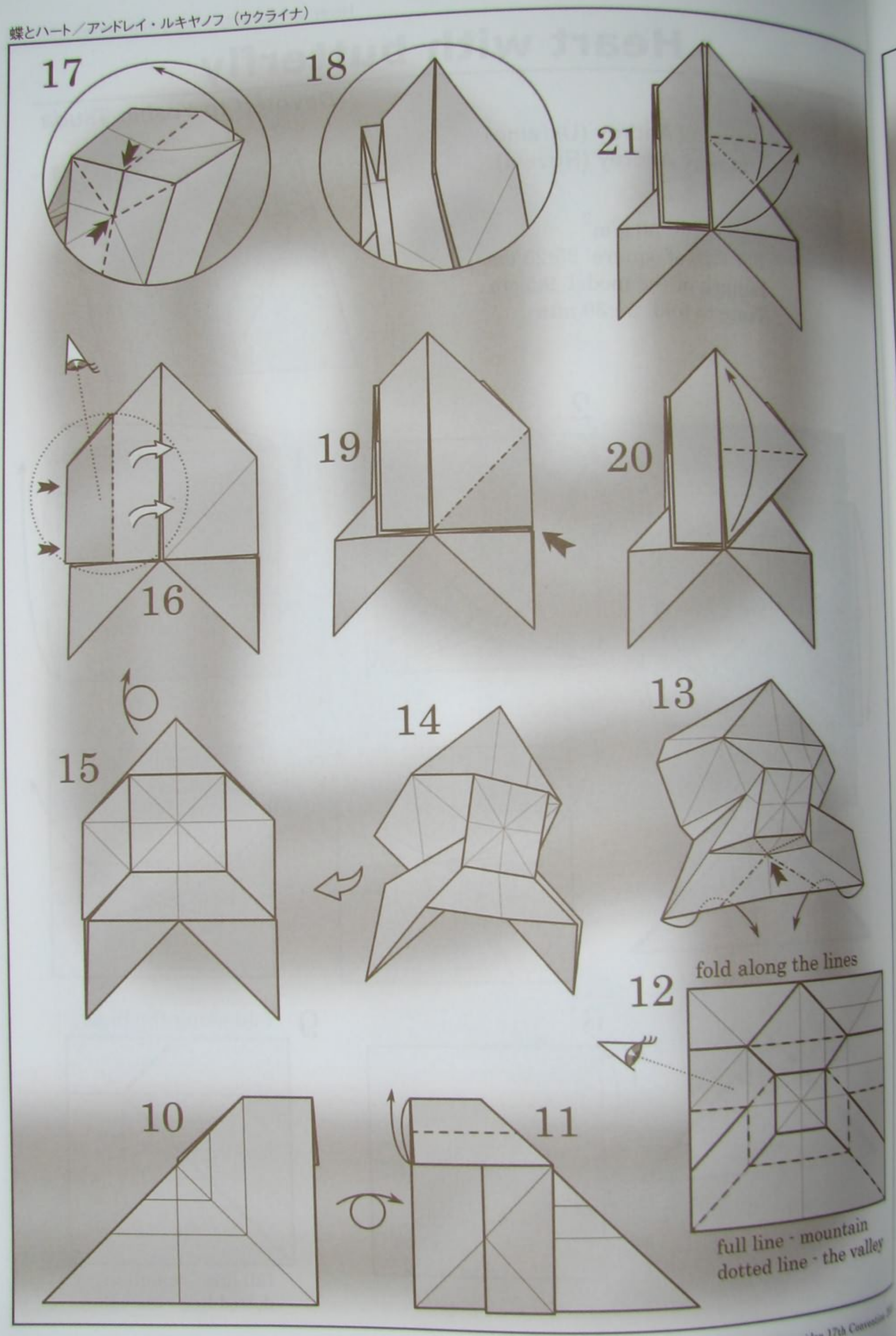
*Devoted to Yoshio Tsuda*

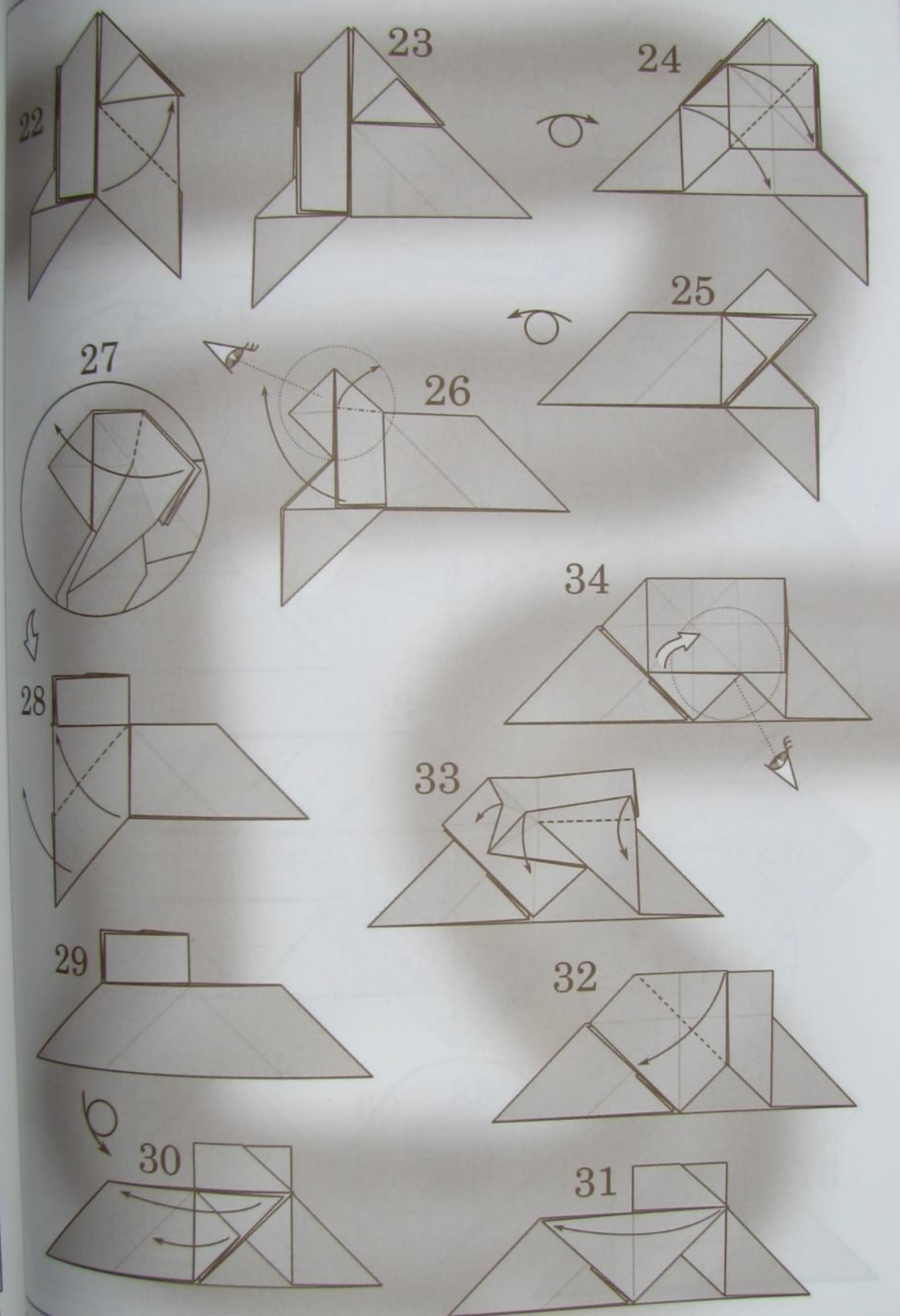
Creator: Lukyanov Andrey (Ukraine)
Drawing: Ermakov Andrey (Russia)

Paper : 40-50 g/m$^2$
For size of square: 25-25 cm
Length of the model: 9,5 cm
Time to fold: 20-30 min






17
18
21
16
19
20
15
14
13
12
fold along the lines
10
11
full line - mountain
dotted line - the valley


22
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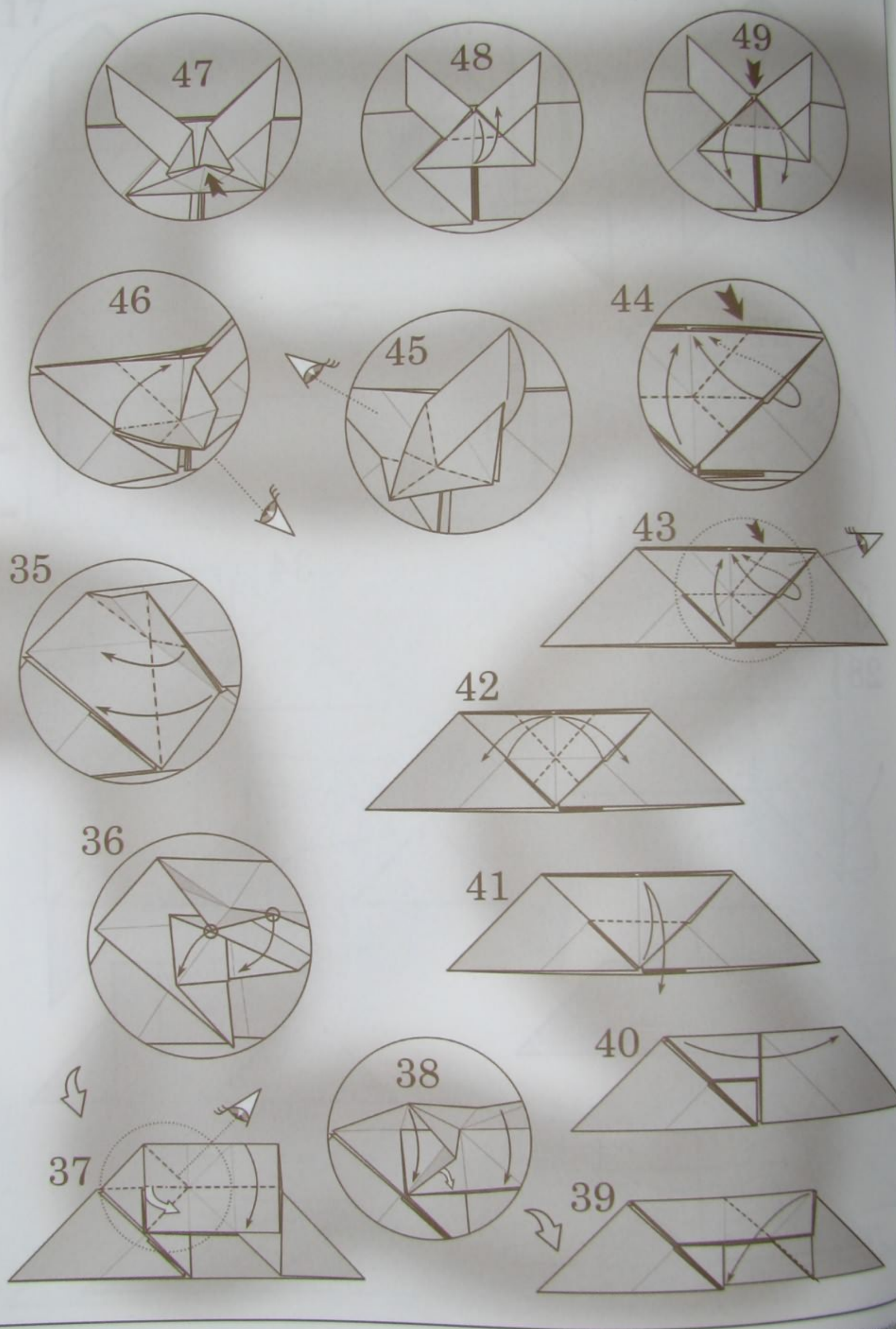
47
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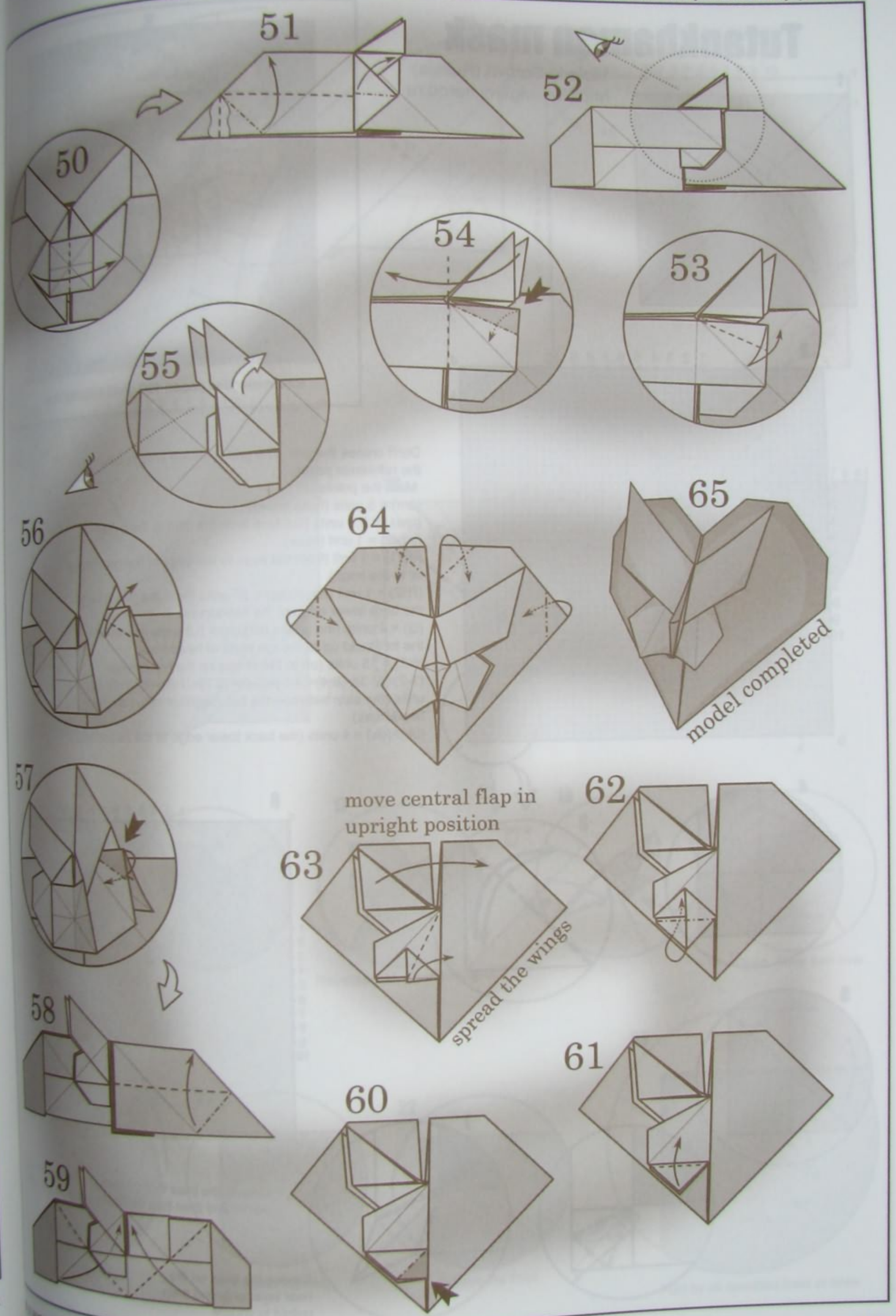
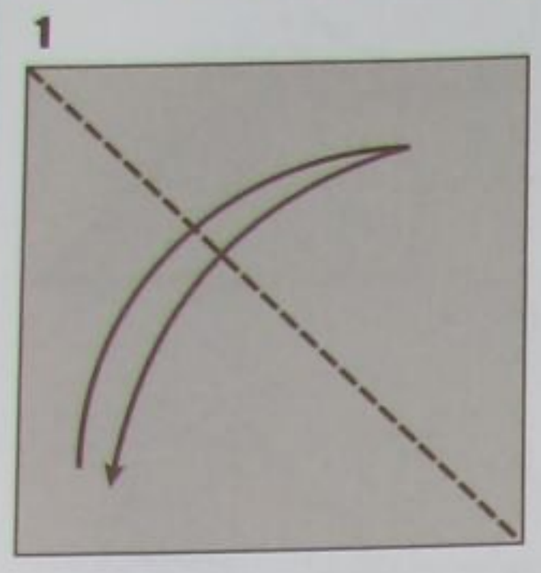
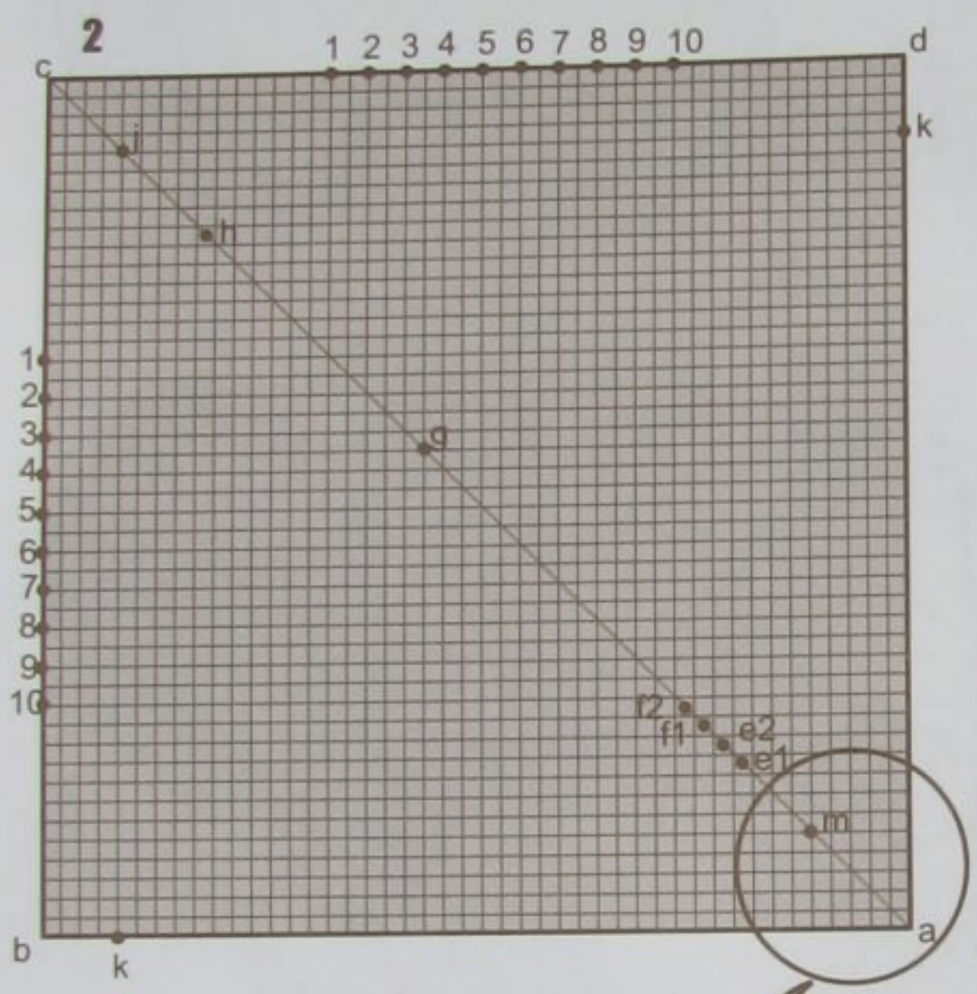

51
52
50
54
53
55
65
model completed
56
64
57
move central flap in
upright position
62
63
spread the wings
58
61
60
59

# Tutankhamen mask

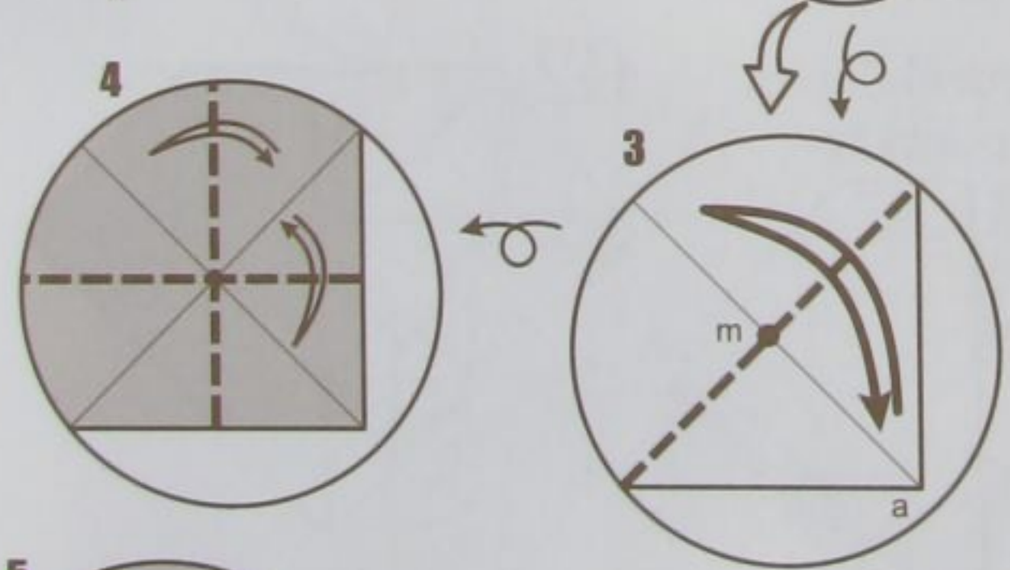
Victoria Serova (Russia)
http://vs-origami.narod.ru

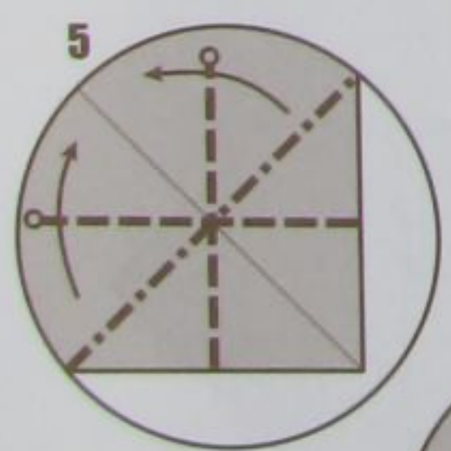


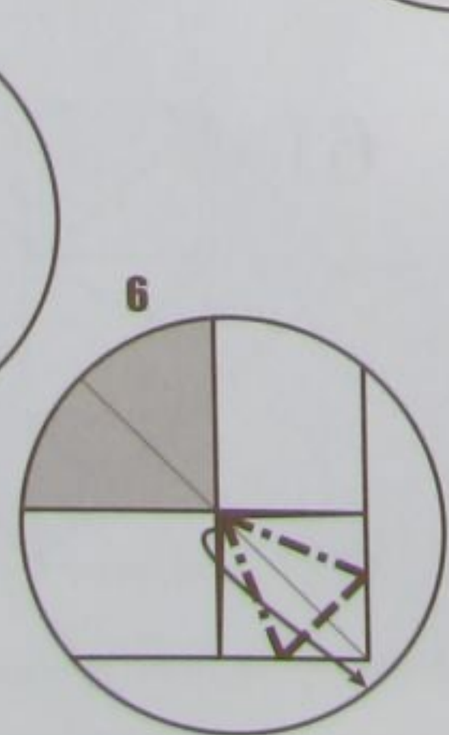
Recommended paper: 120 g/m2 600x600mm

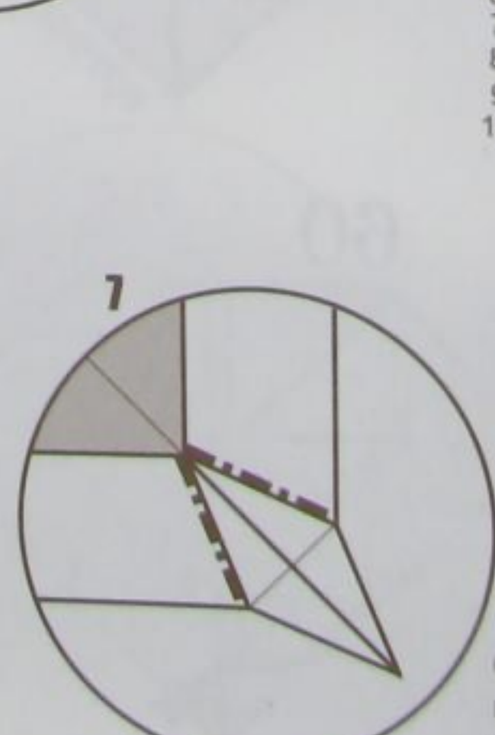



Don't crease the grid. The grid is shown only to describe the reference points.
Mark the points.
(am) = 5 units (false beard)
(me1) = 3,5 units (the face from the chin to the eyes)
(e1e2) = 1 unit (eyes)
(e2f1) = 1 unit (from the eyes to the edge of the headdress or to the hoop)
(f1f2) = 1 unit (hoop)(ag) = 25 units (from the beard tip to the back lower edge of the headdress)
(cj) = 4 units (the snake tail)(ch) = 8,5 units (the height of the forehead up to the top bend of headdress)
(c-1) = 15 units (up to the streps on the headdress)
(1-2)=(2-3)=(3-4)=(4-5)=(5-6)=(6-7)=(7-8)=(8-9)=(9-10) = 2 units (the step between the two neighbor strips on the headdress)
(bk)=(dk) = 4 units (the back lower edge of the headdress)

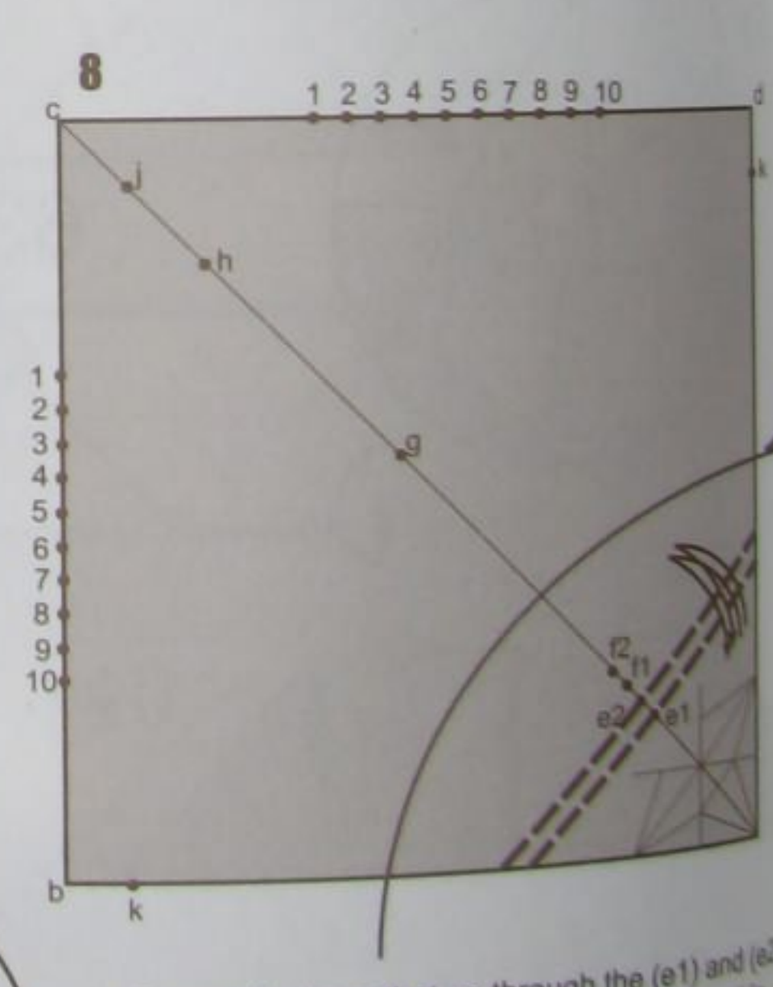


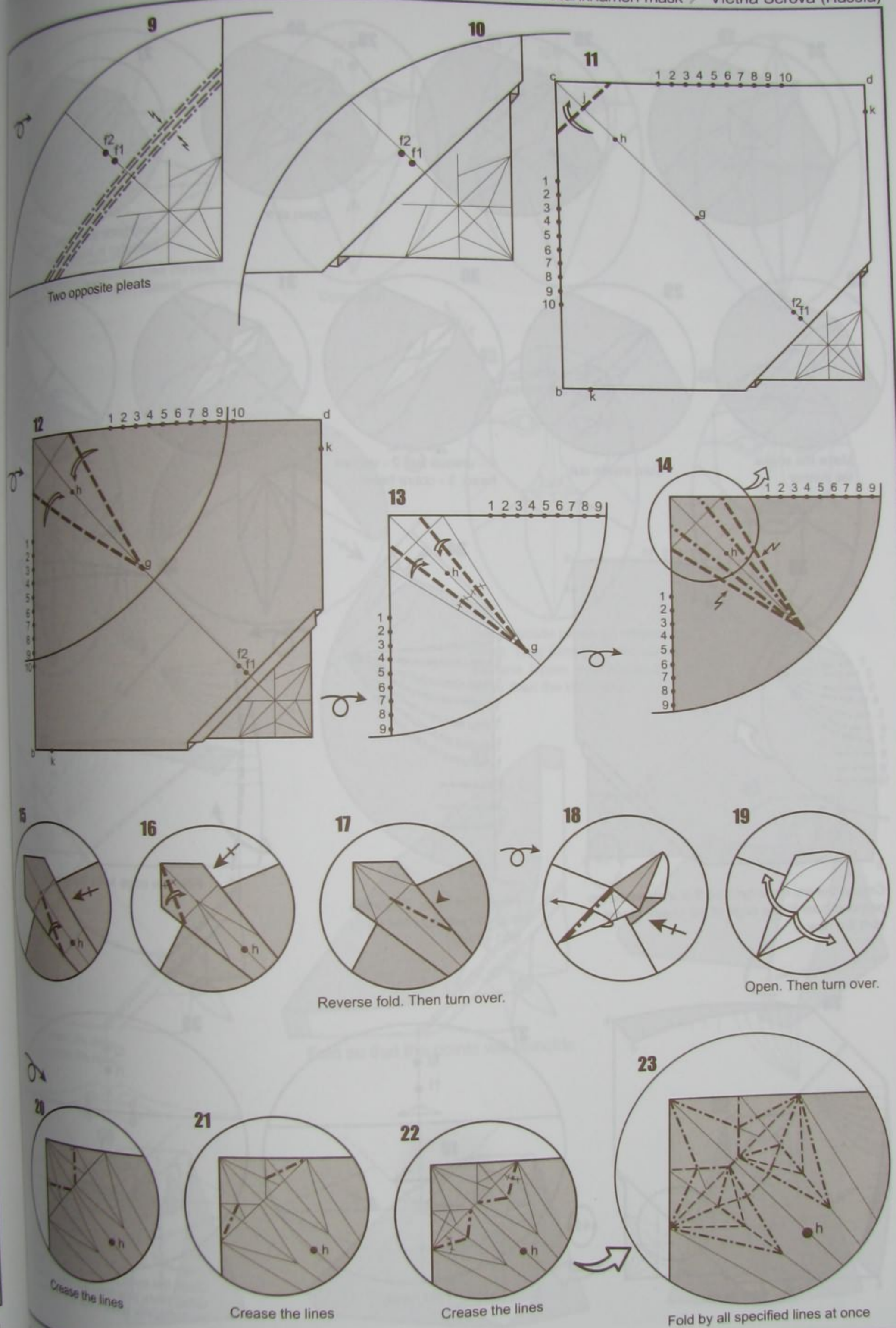



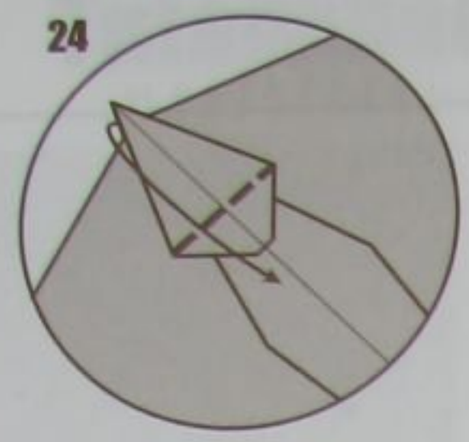



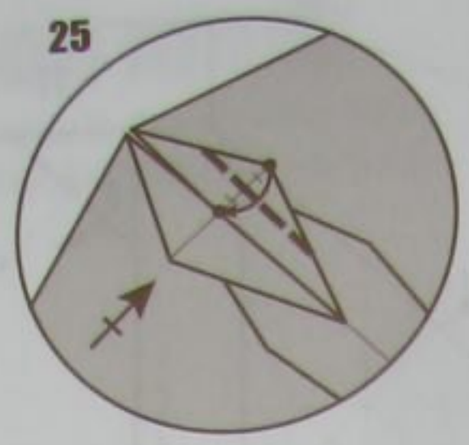

Crease the lines on the near layer only and then unfold to square

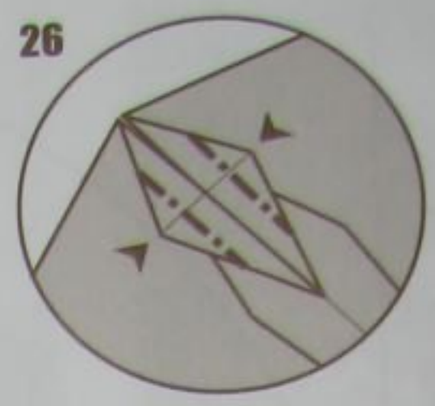



Crease the lines that go through the (e1) and (e2) points and then turn the figure on the other side

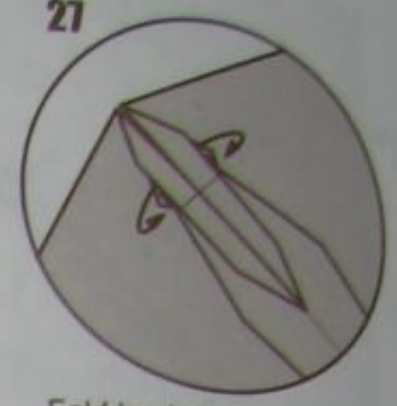

9
Two opposite pleats
10
11
12
13
14
15
16
17
Reverse fold. Then turn over.
18
19
Open. Then turn over.
20
Crease the lines
21
Crease the lines
22
Crease the lines
23
Fold by all specified lines at once


24

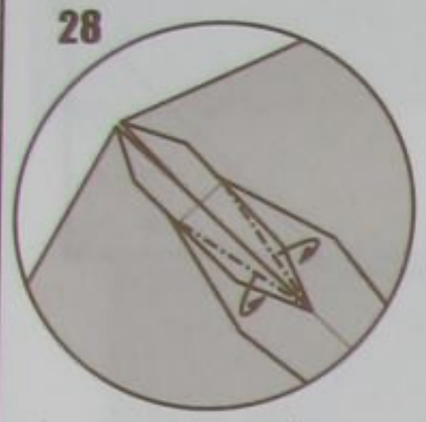

25


26

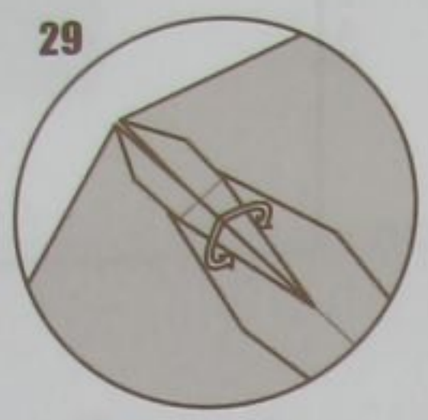
Open sink


27

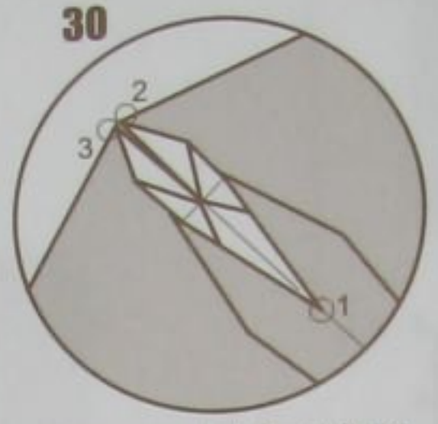
Fold back the jutted out triangles to hide them


28

Make the snake tail thinner

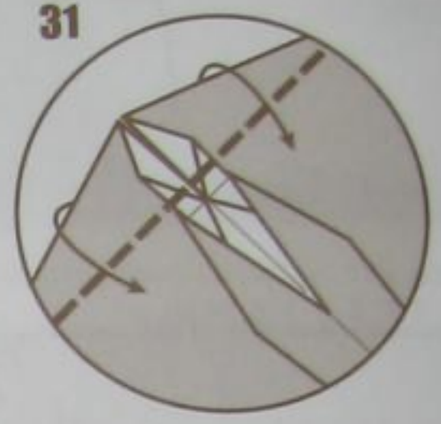

29

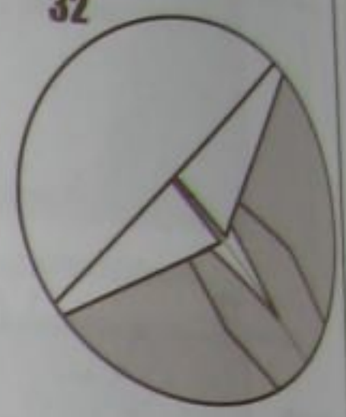
Turn inside out



30

1 - uraeus tail; 2 - vulture head; 3 - cobra head


31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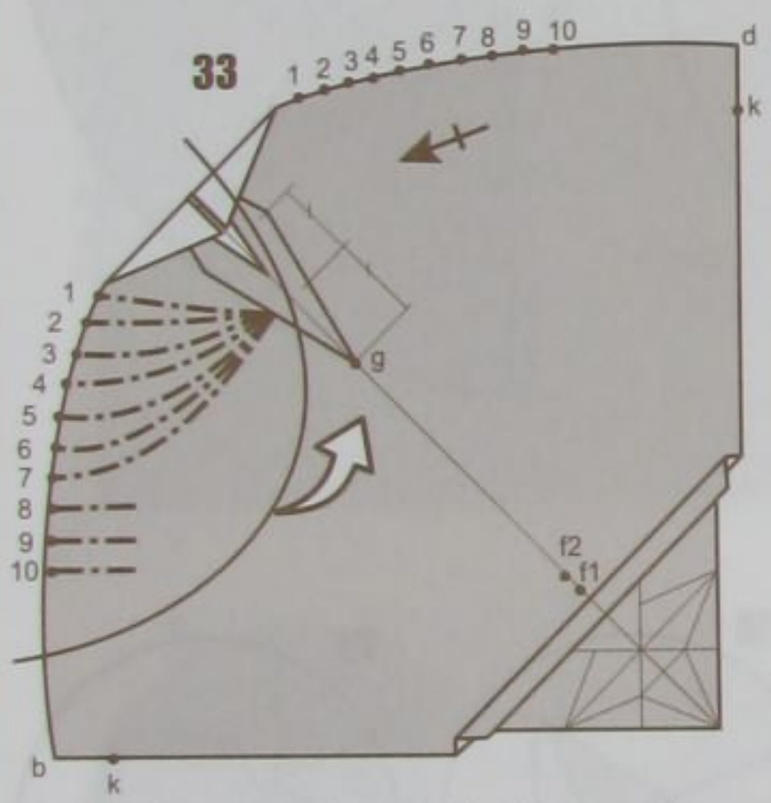
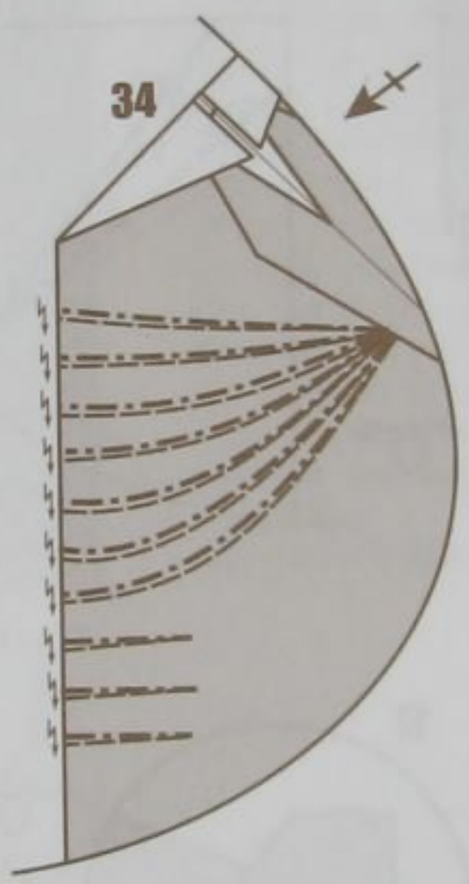
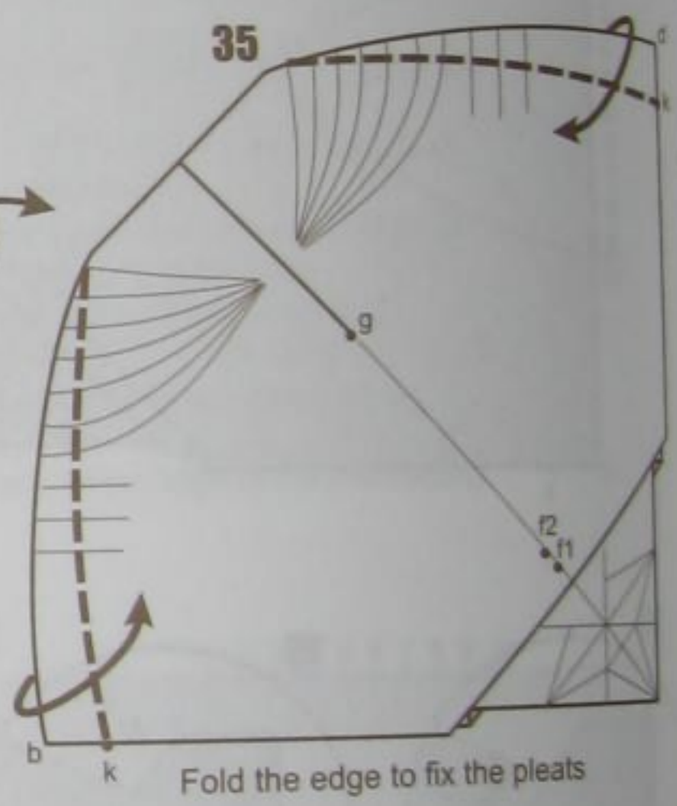


33

Crease the arc mountains so that they would go perpendicular to the edge of the sheet. Model isn't flat now.

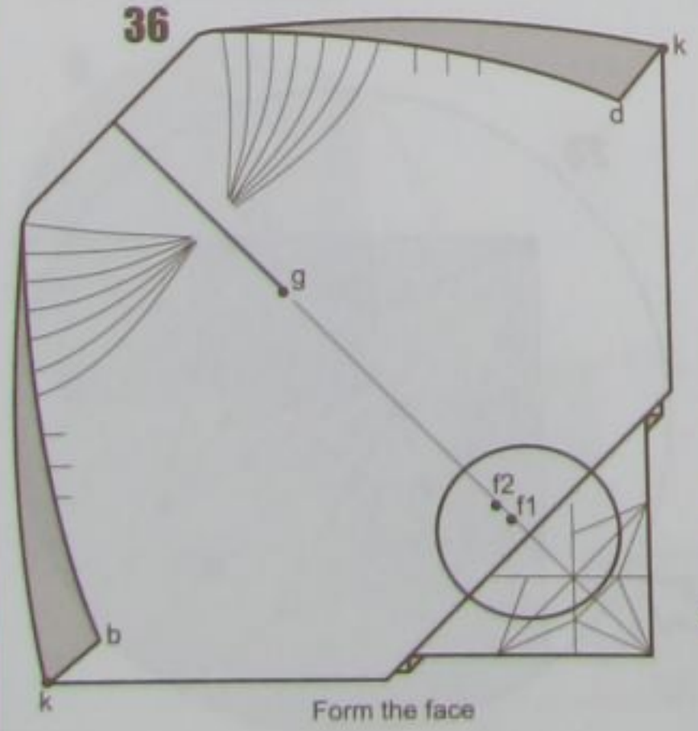

34

Pleat. Turn over. The edge is shown straight but really isn't straight



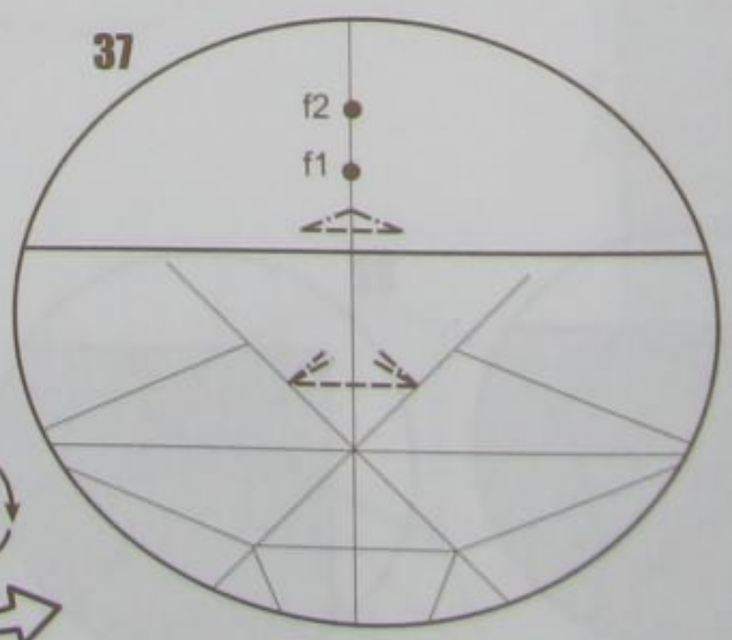
35

Fold the edge to fix the pleats



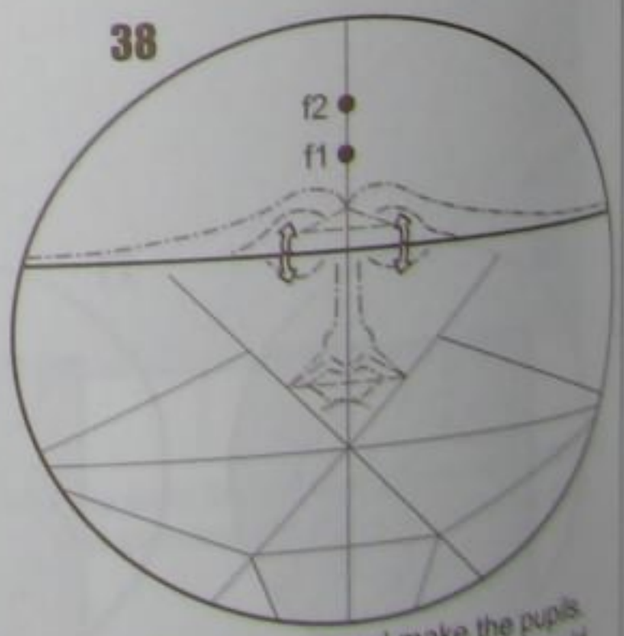
36

Form the face



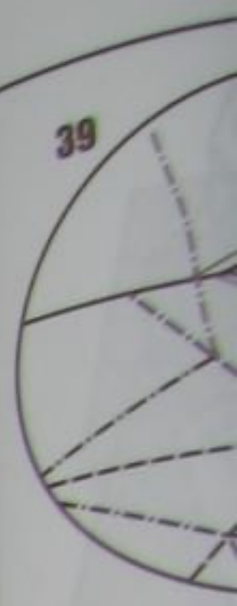
37

Fold hardly



38

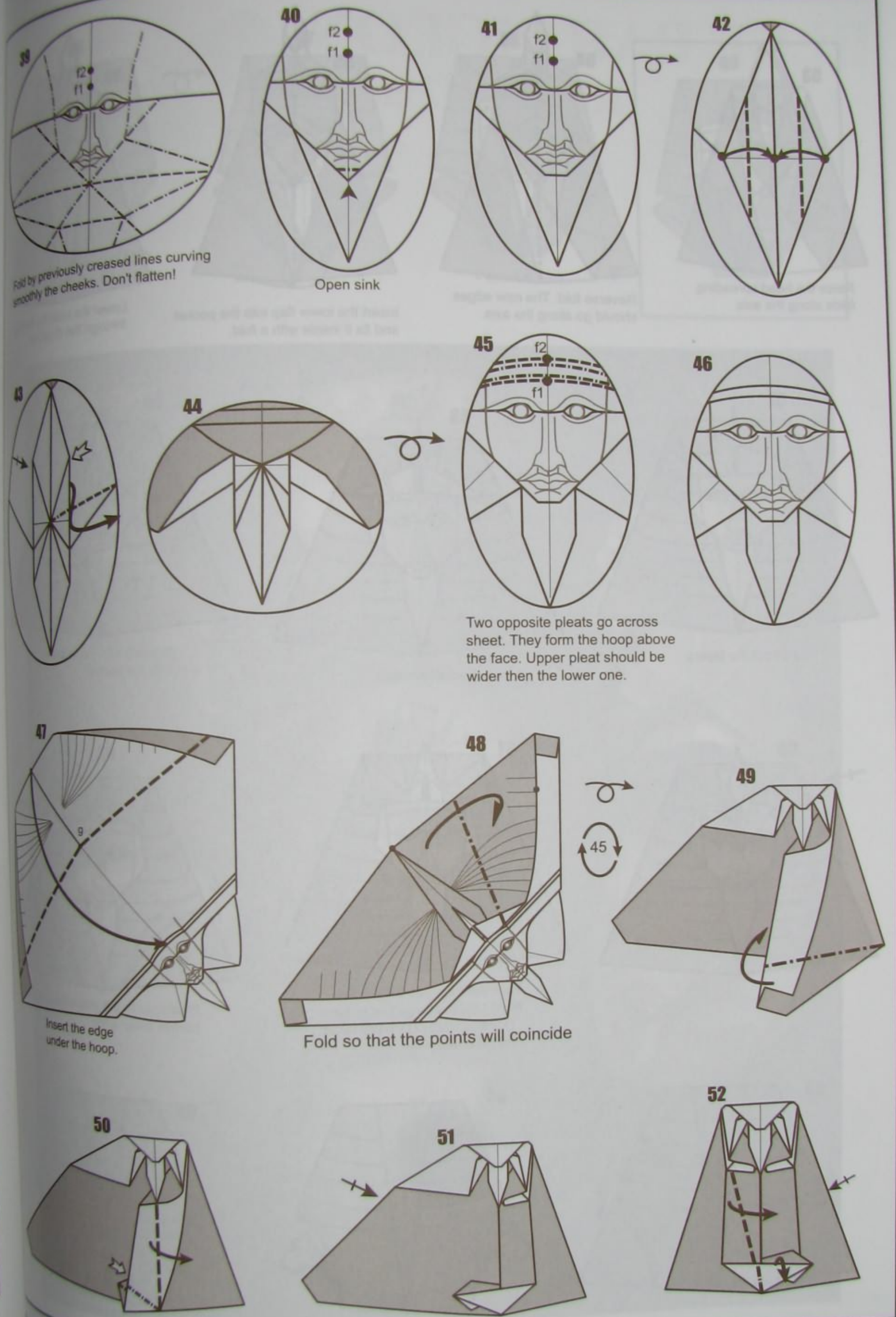
Open the eyes and make the pupils. Other folds that form the face should be soft. Only base folds are shown.


39

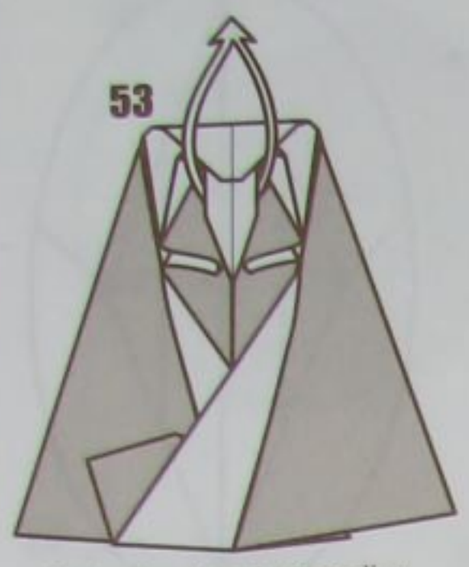
Fold by previ
smoothly the

43

47


39
f2
f1
Fold by previously creased lines curving smoothly the cheeks. Don't flatten!
40
f2
f1
Open sink
41
f2
f1
42
43
44
45
f2
f1
Two opposite pleats go across sheet. They form the hoop above the face. Upper pleat should be wider then the lower one.
46
47
9
Insert the edge under the hoop.
48
Fold so that the points will coincide
45
49
50
51
52

53

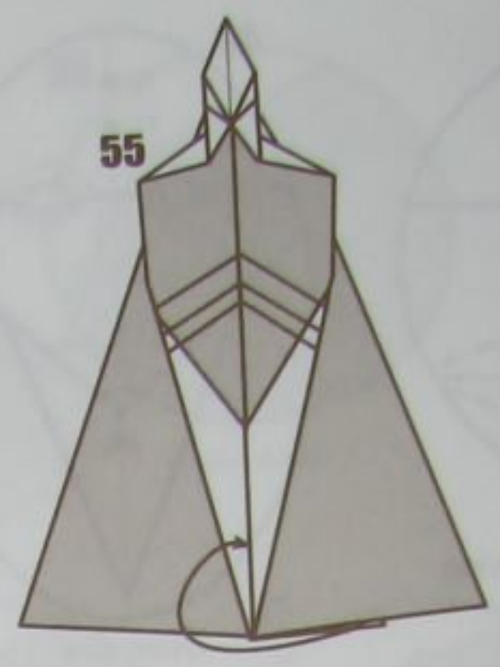


Raise the head spreading folds along the axis

54

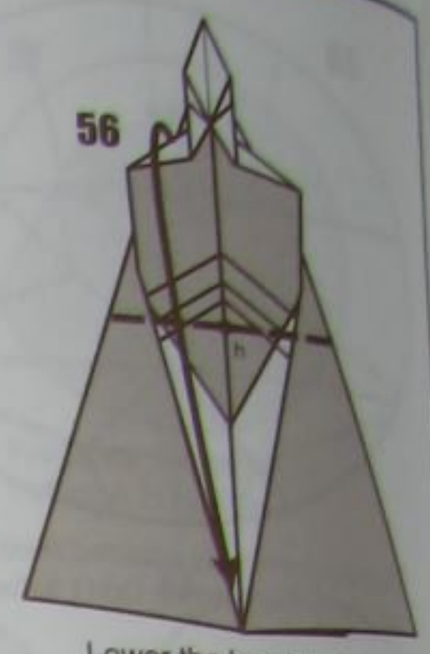
Reverse fold. The new edges should go along the axis.

55



Insert the lower flap into the pocket and fix it inside with a fold.

56



Lower the head by folding through the (h) point

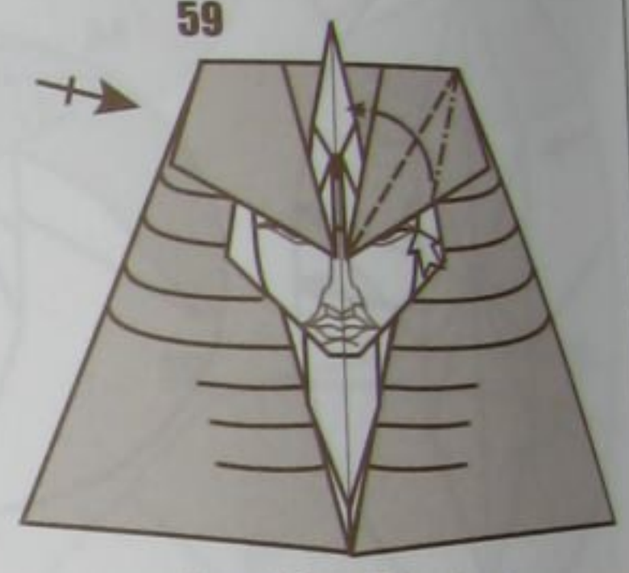
57

Pull out the layers

58

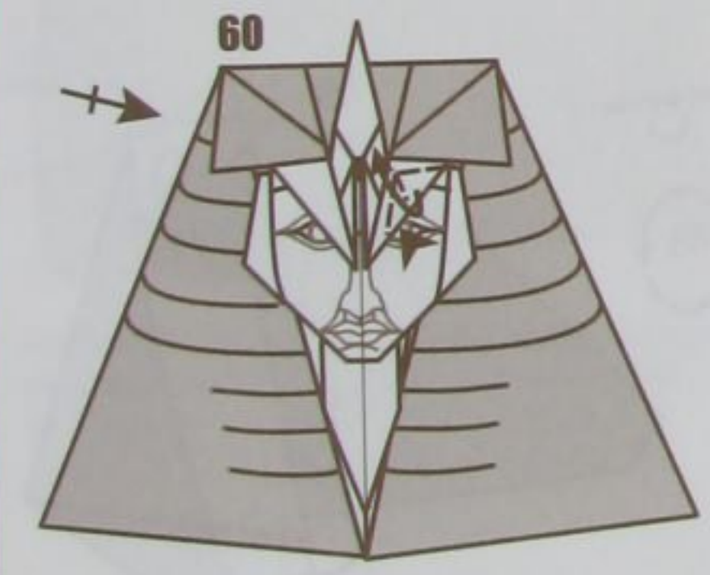
Fold downward

59



Squash fold. Edge insert into the pocket

60



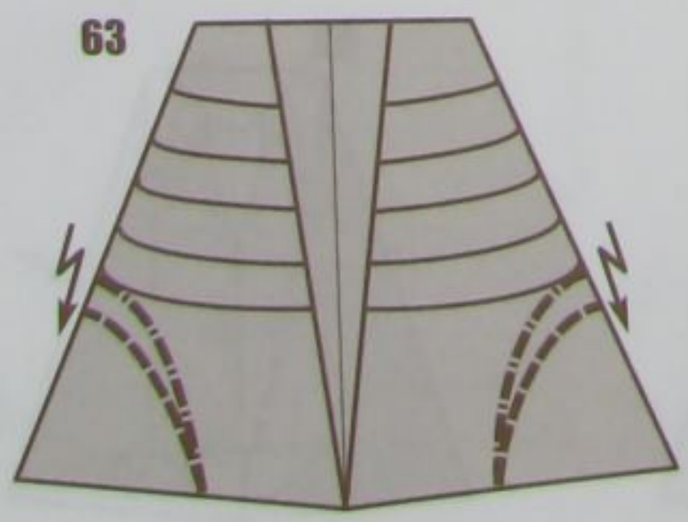
61

Tuck the triangles behind the head.Use the three flap to form (1) uraeus tail, (2) vulture head and (3) cobra head

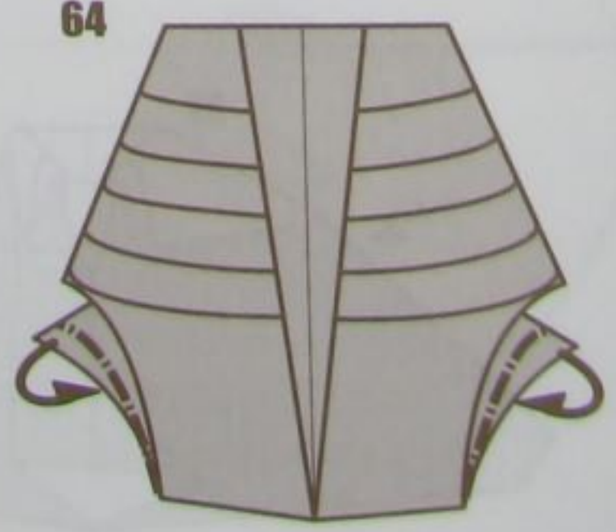
62

Pleat to form the shoulders and the Nemes lower edge

63



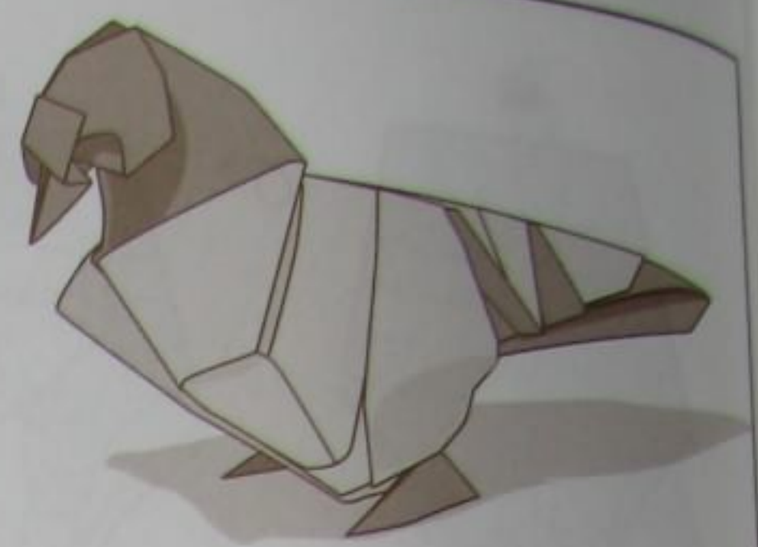
64



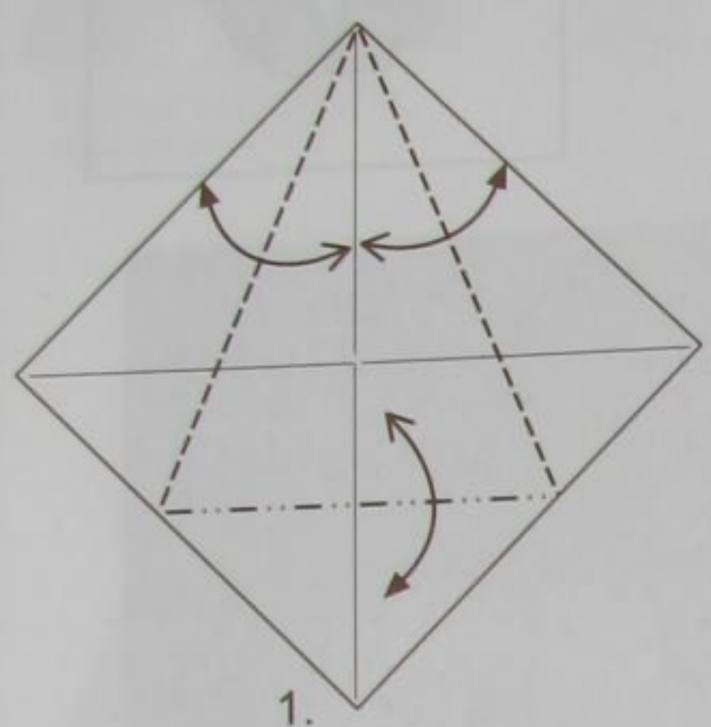
65

66
67
68
69
Fix the fold
Form the ears
Виктория
Серова
Victoria
Serova
Mask of
Tutankhamen
Маска
Тутанхамона

# BLUE BAR PIGEON
## Román Díaz



Start with you lighter color facing up.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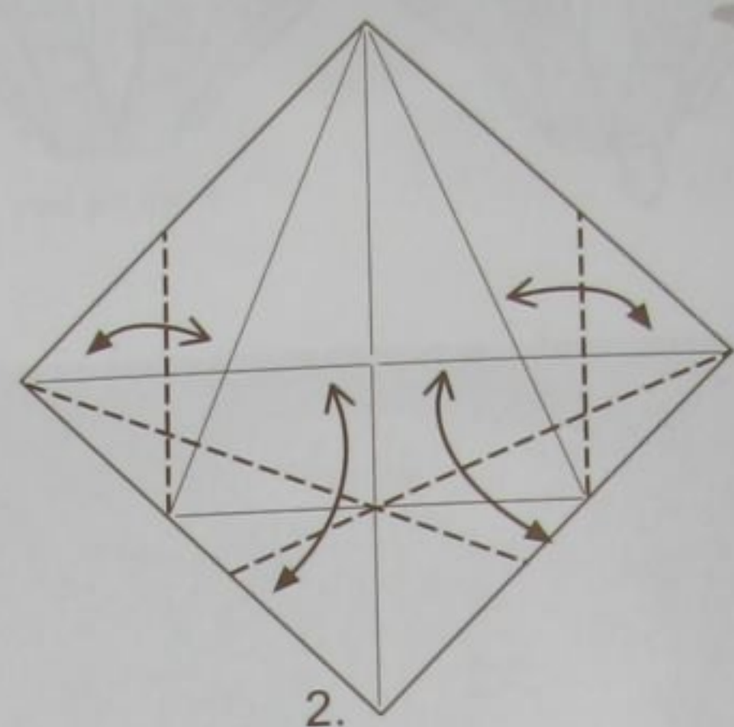
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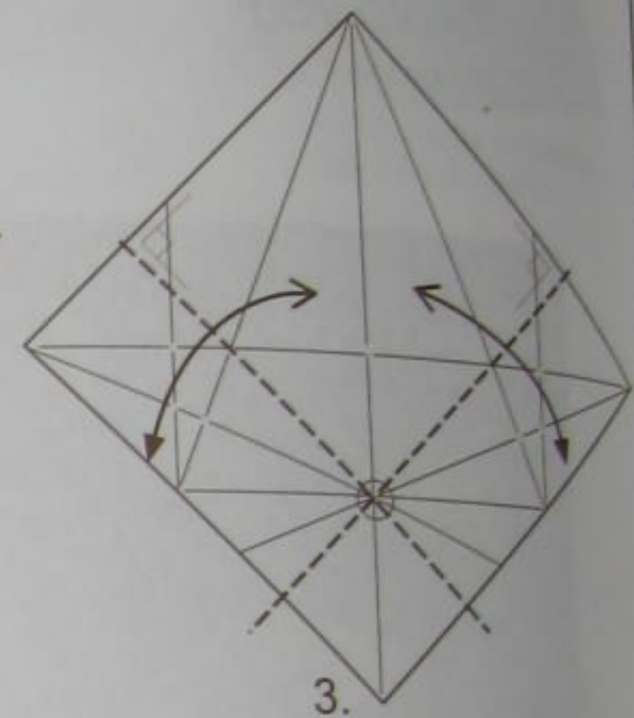
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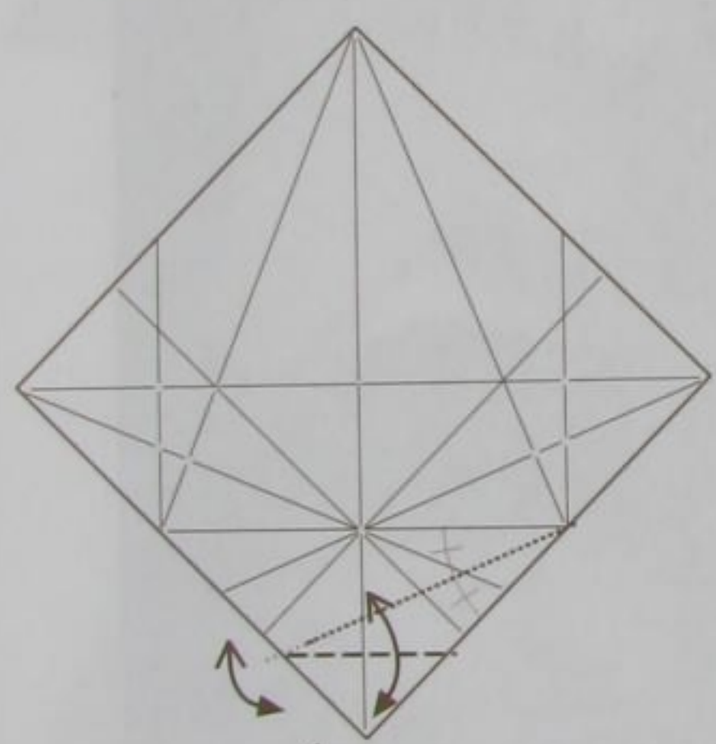
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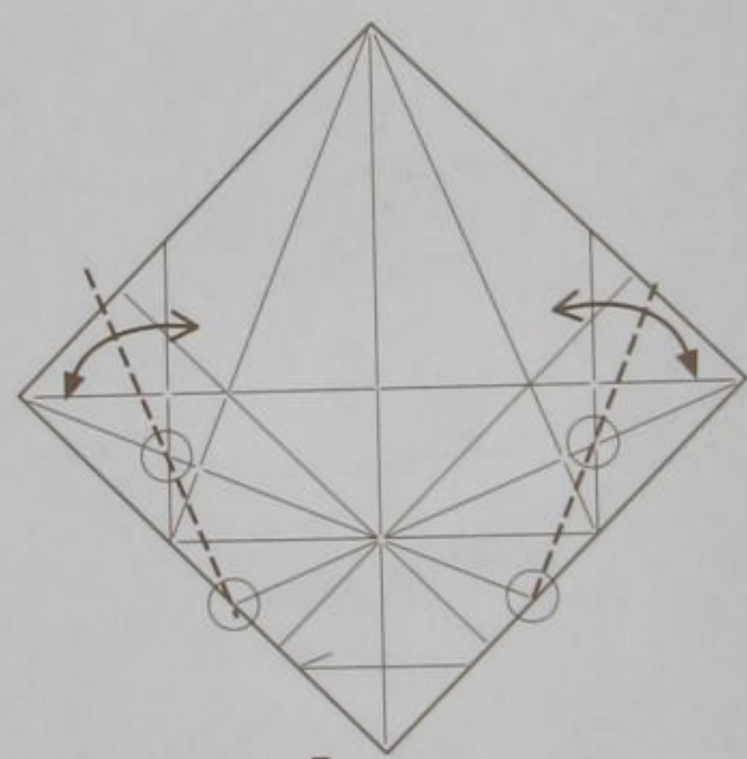
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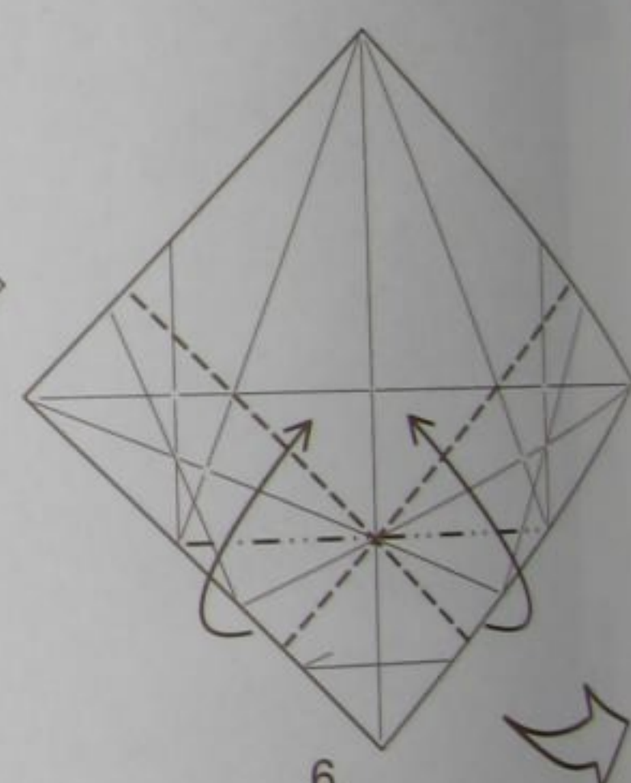
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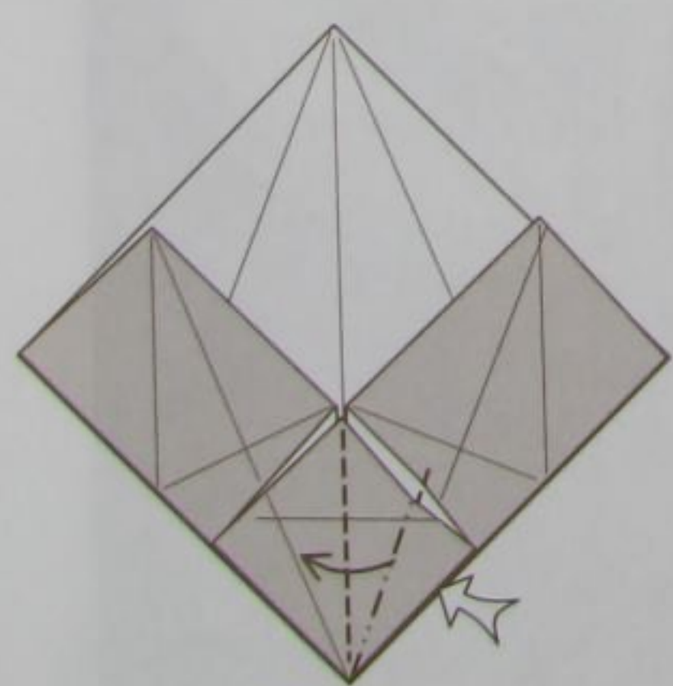
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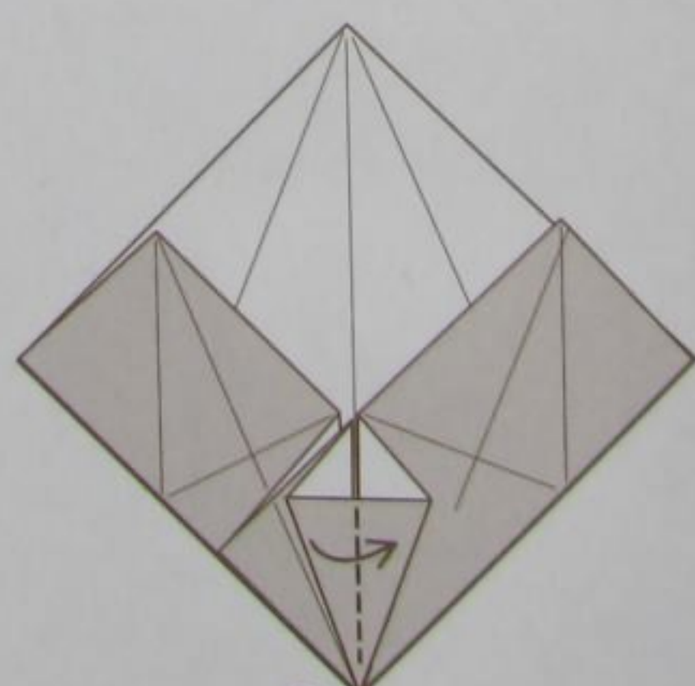
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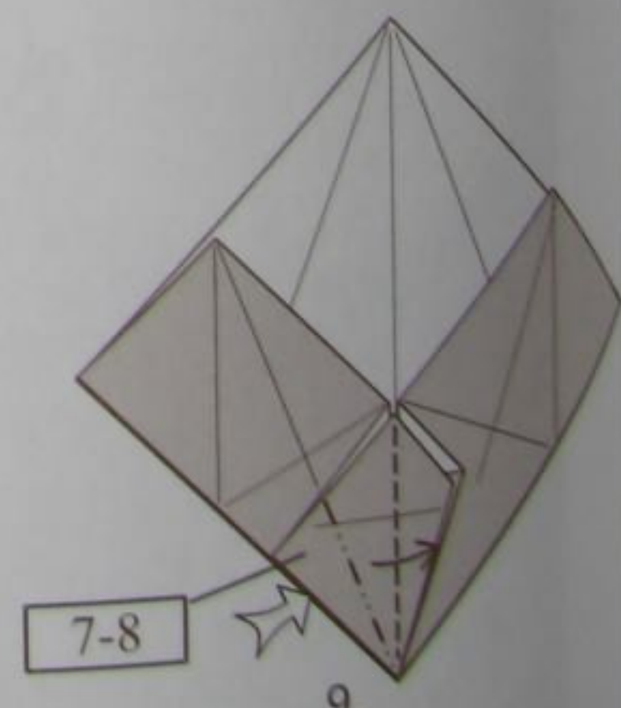

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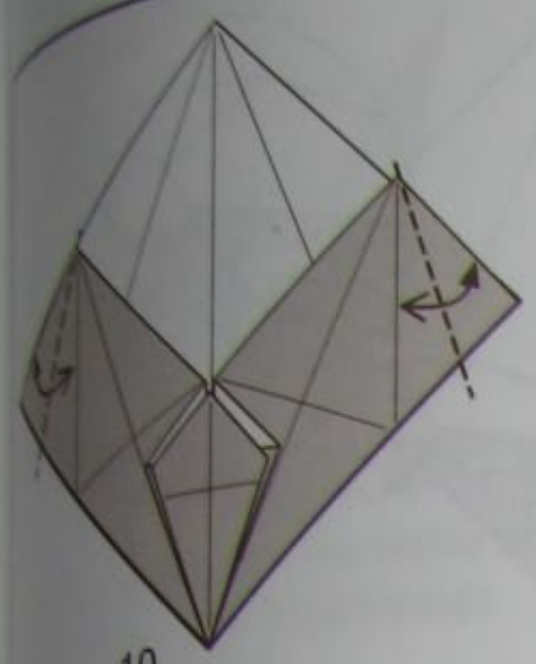

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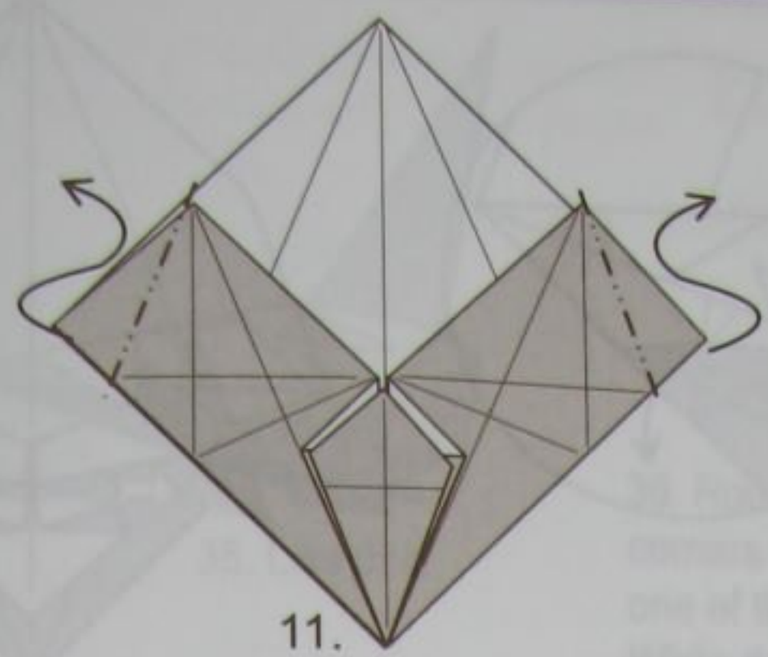

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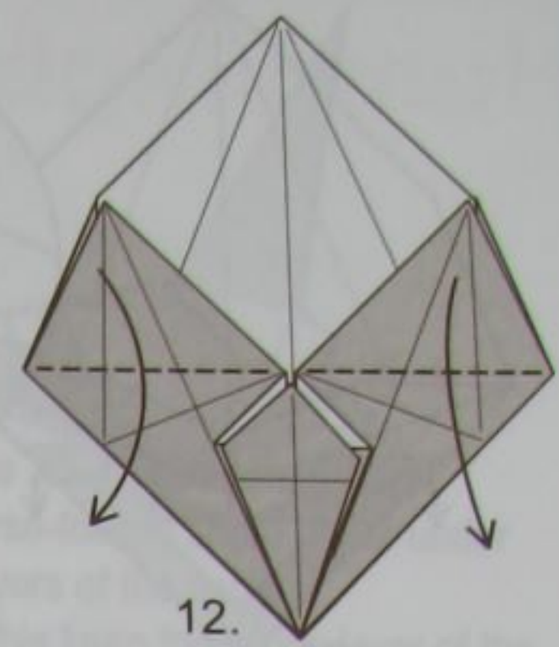

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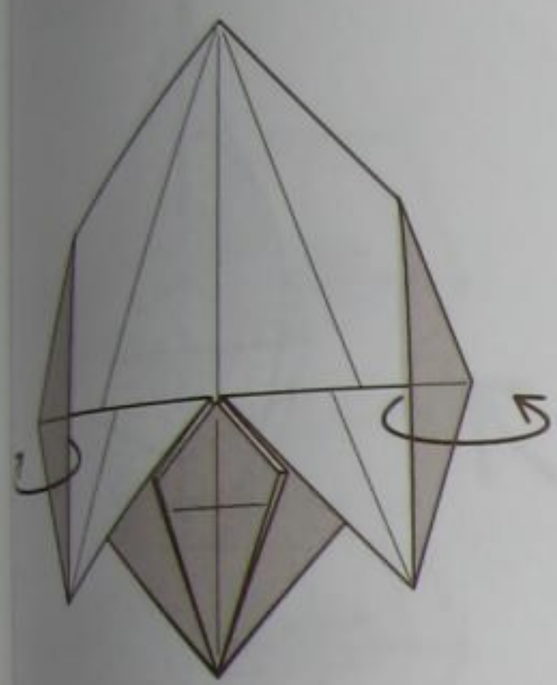
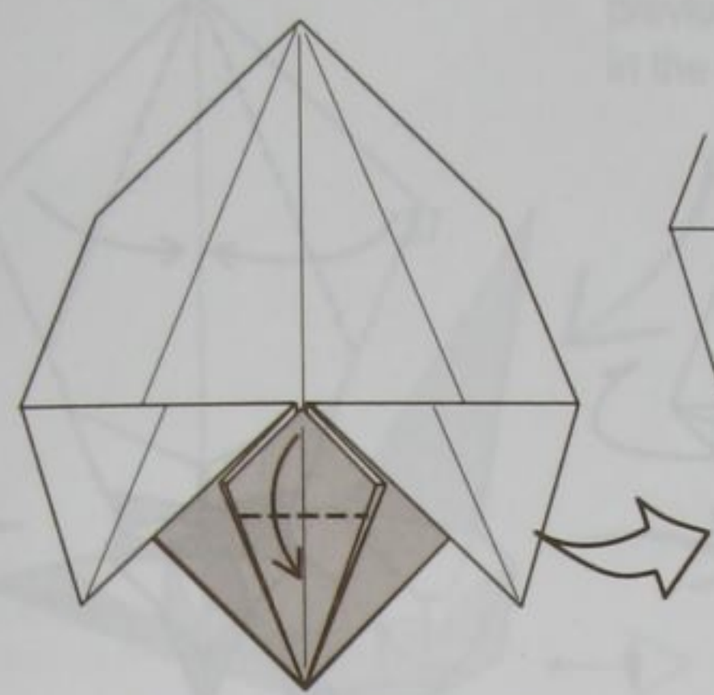
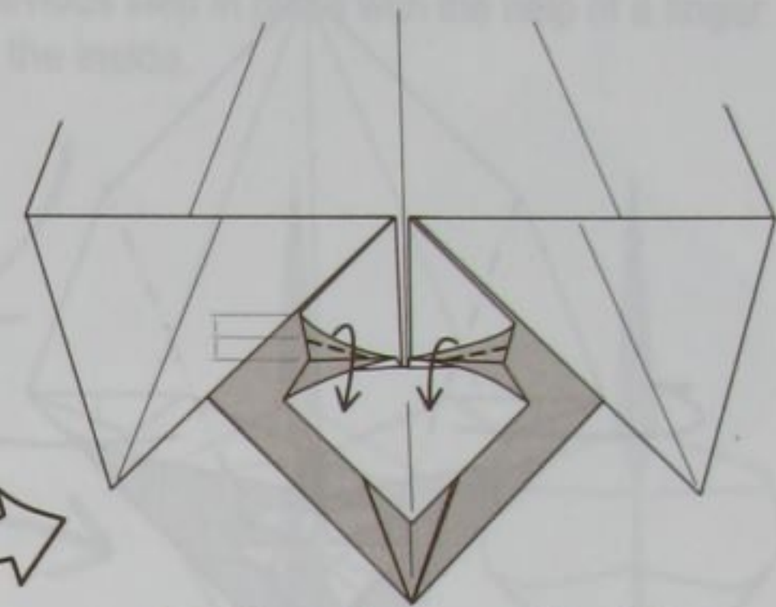


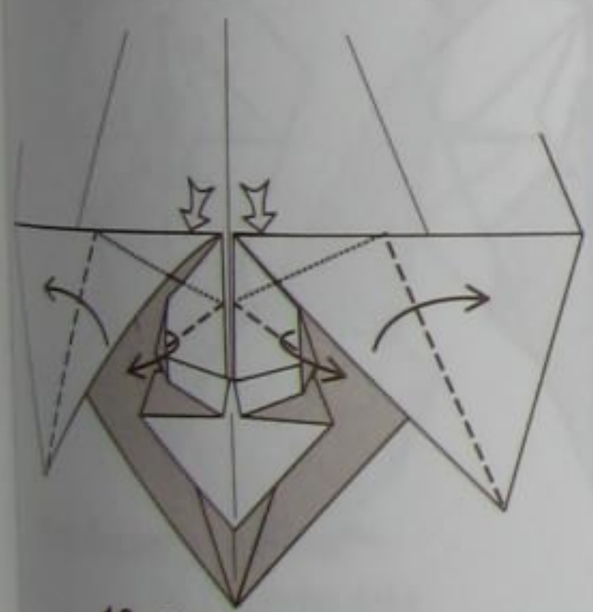
13. Carefully wrap around to color-change.



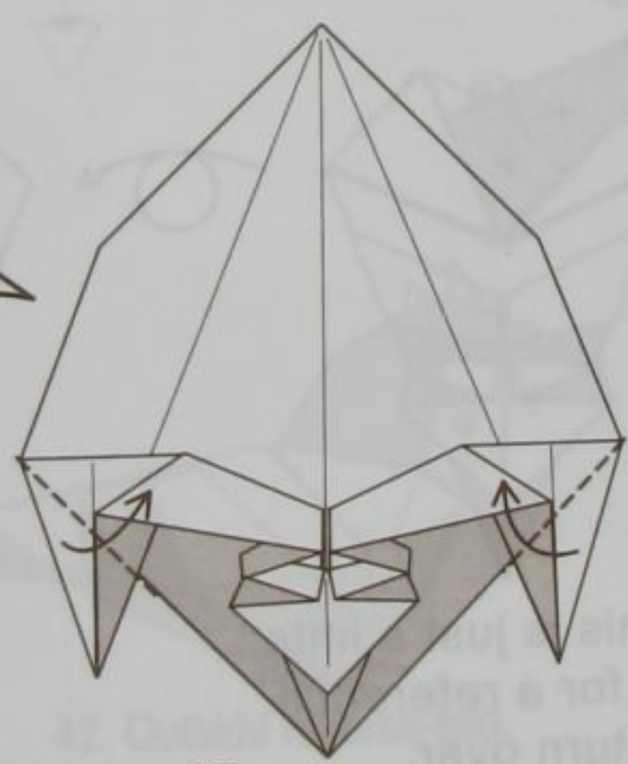
14. Do not flatten yet.



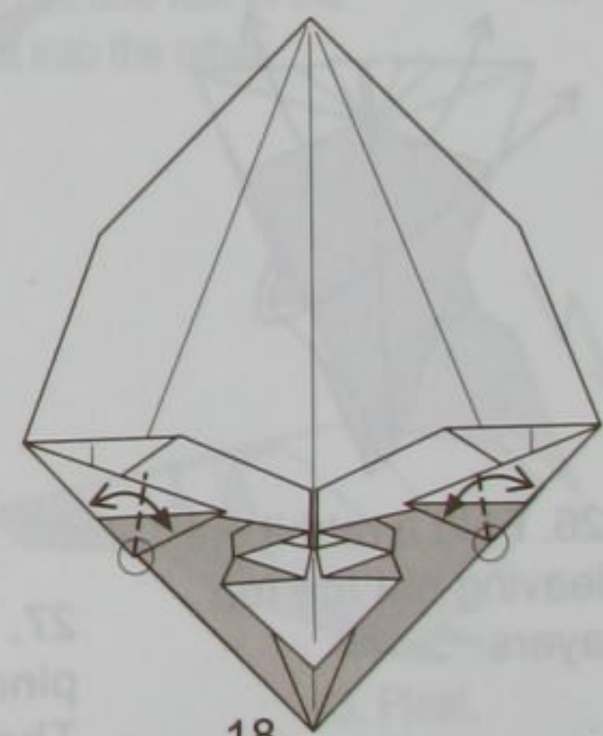
15. Now flatten using this approximate reference.



16. Swivel-fold.



17.



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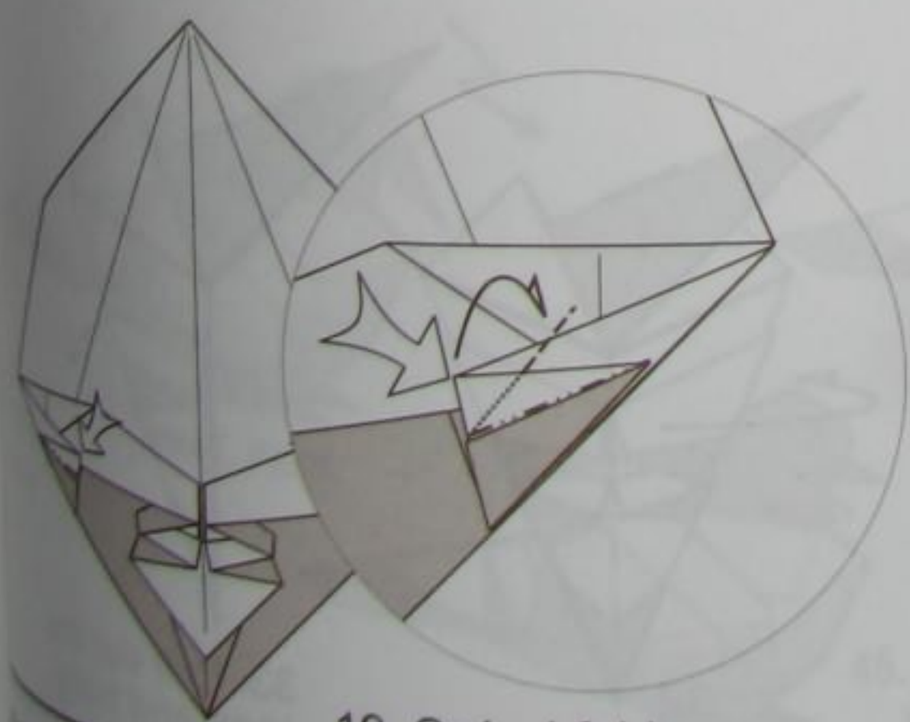
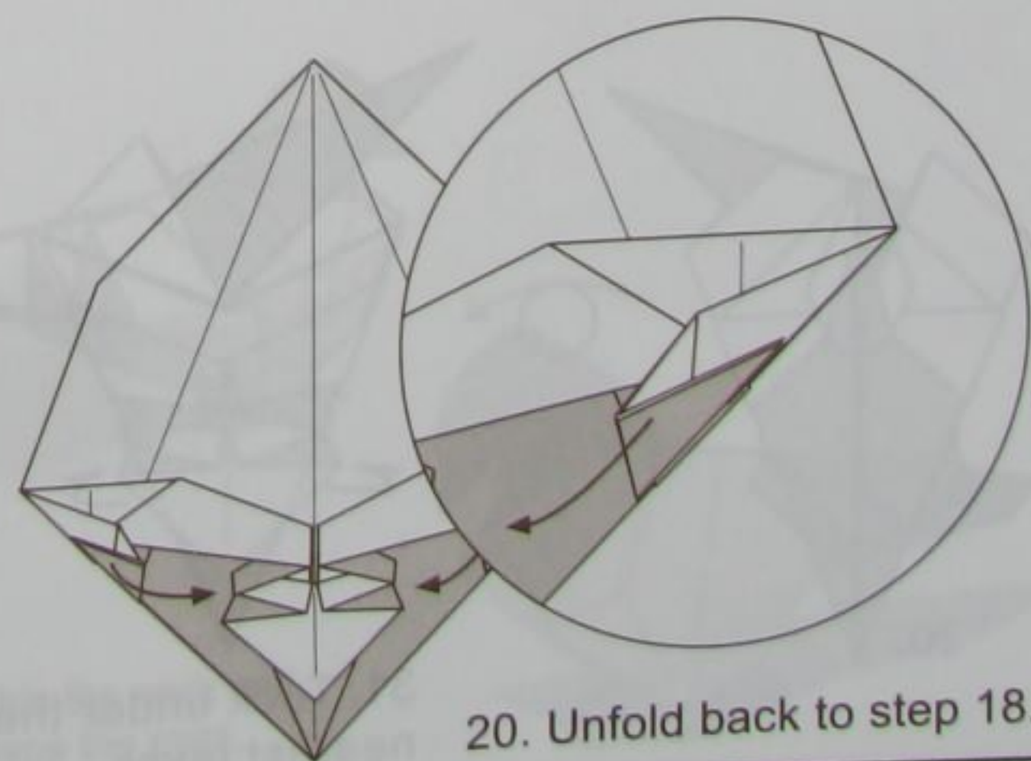
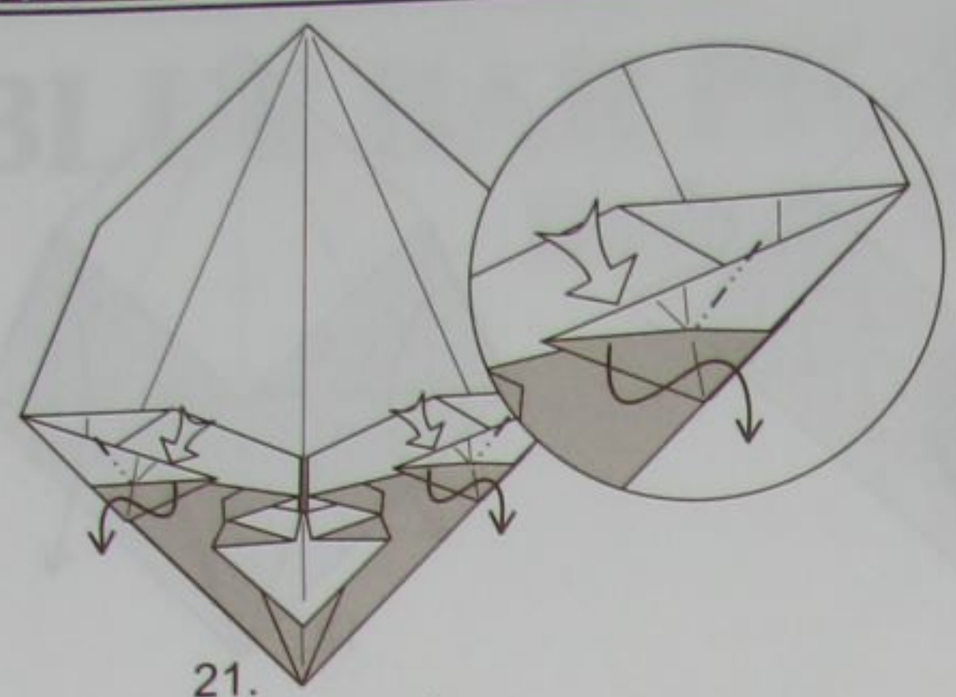


19. Swivel-fold.



20. Unfold back to step 18.



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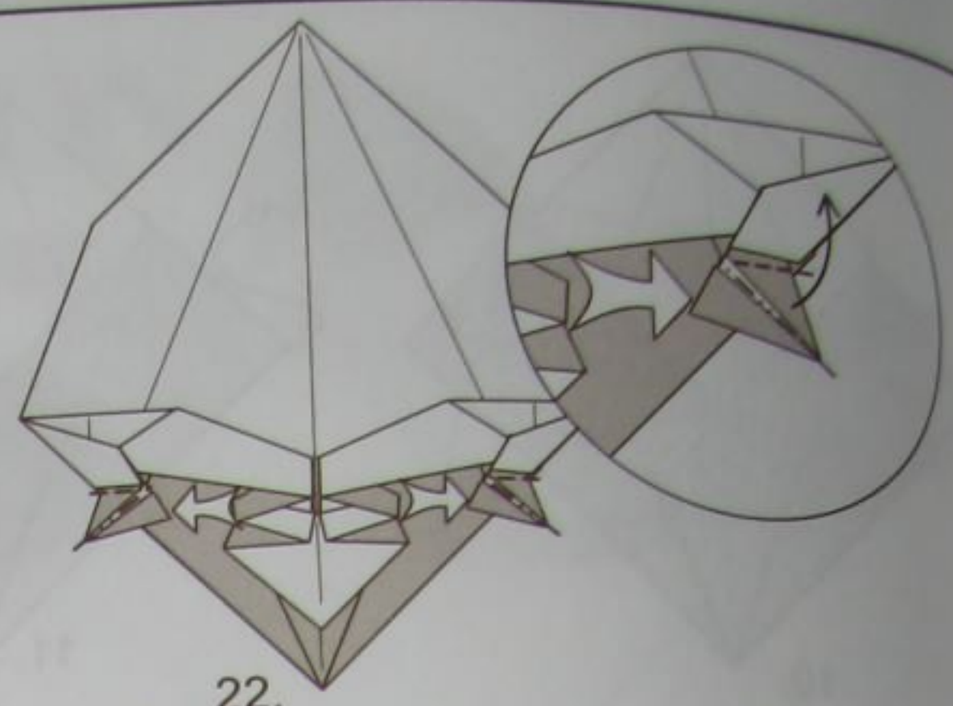

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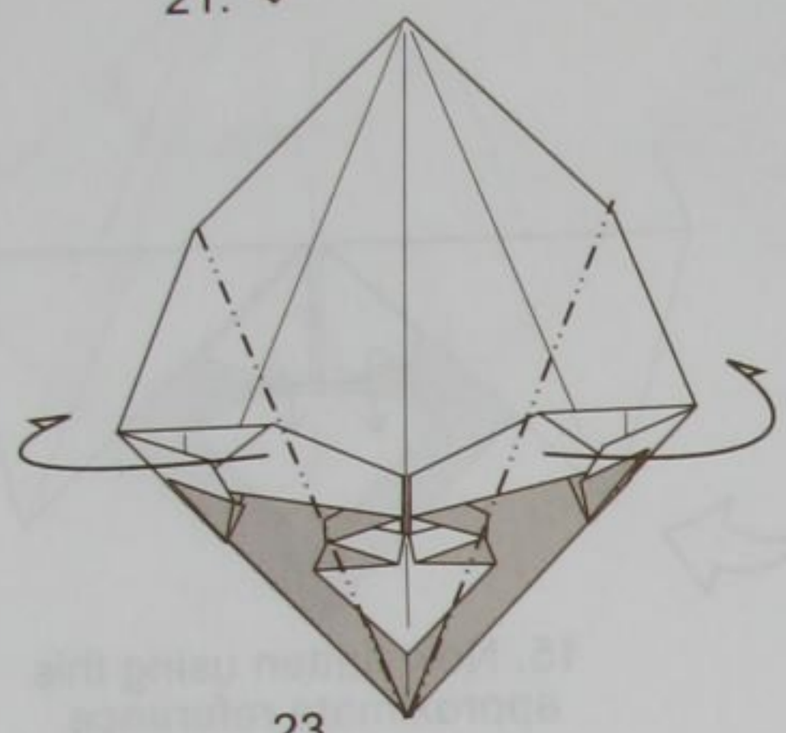

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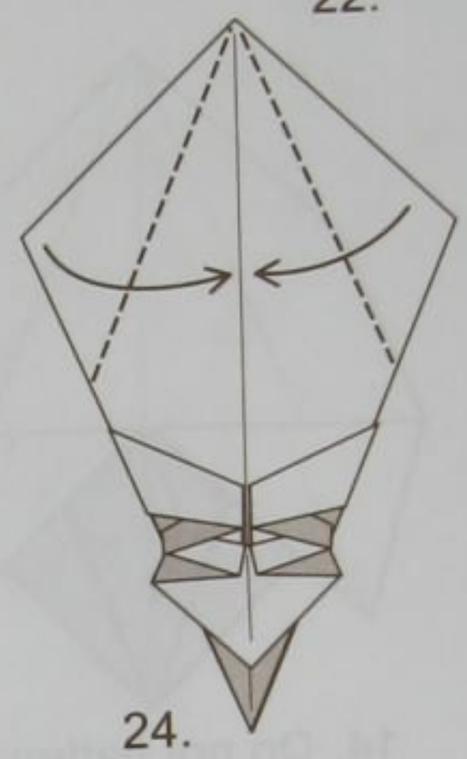

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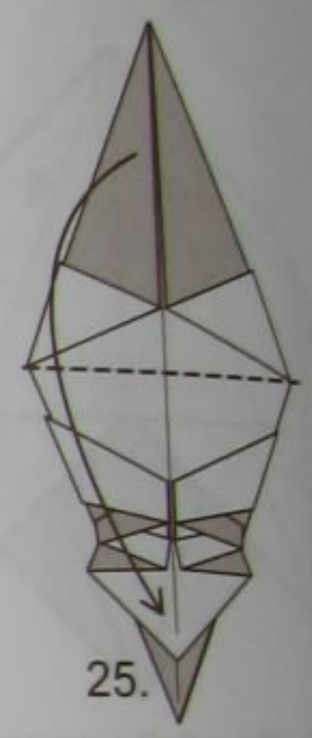

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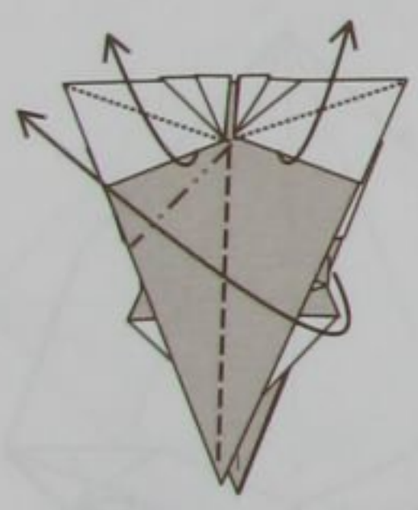
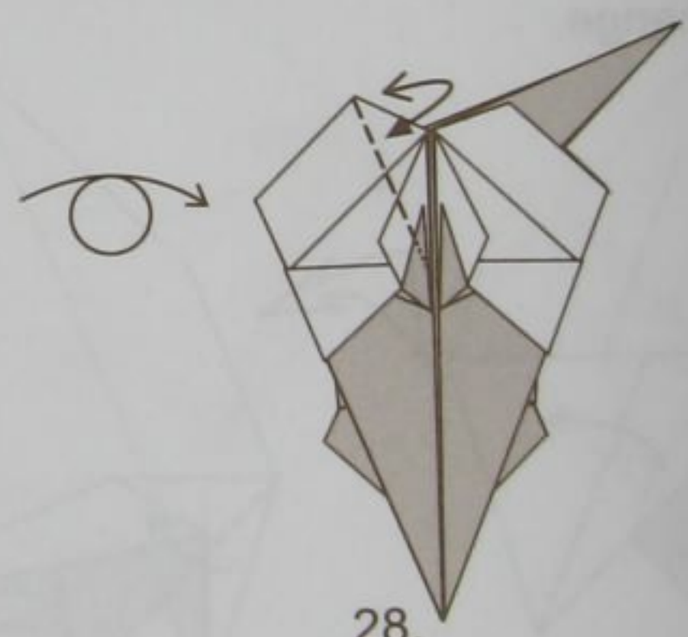


26. Fold a rabbit ear leaving out the top ayers.

27. This is just a little pinch for a reference. Then turn over.



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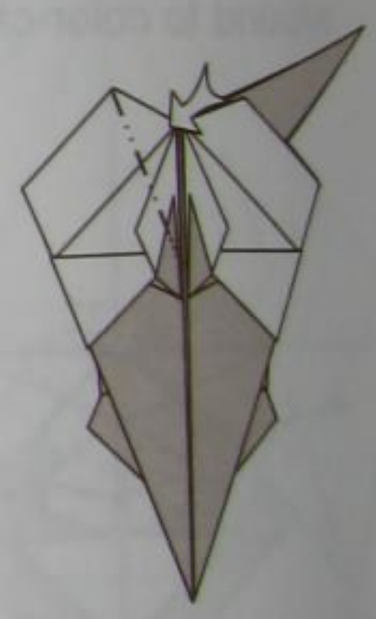
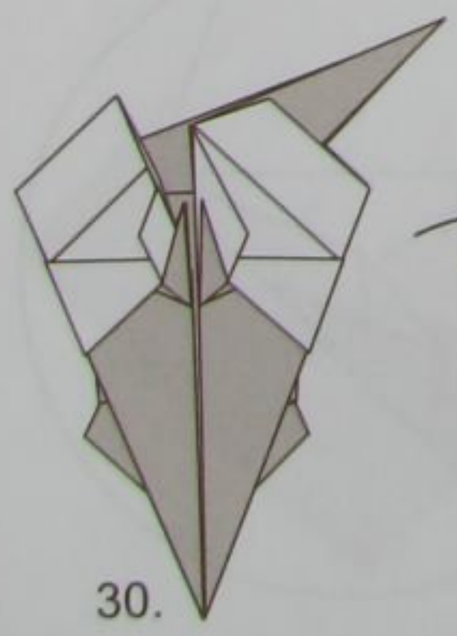


29. Closed-sink.



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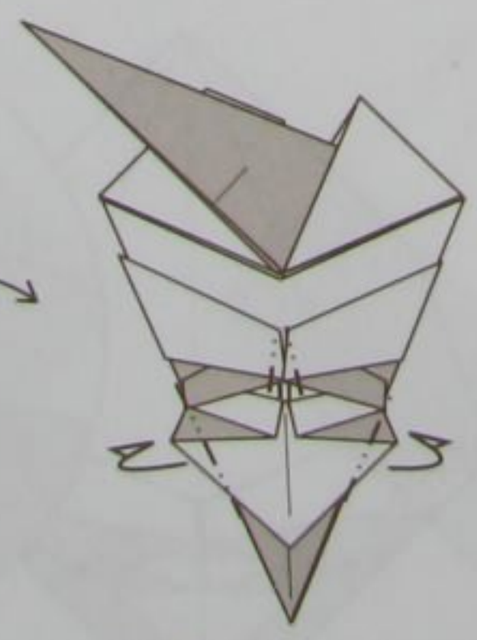
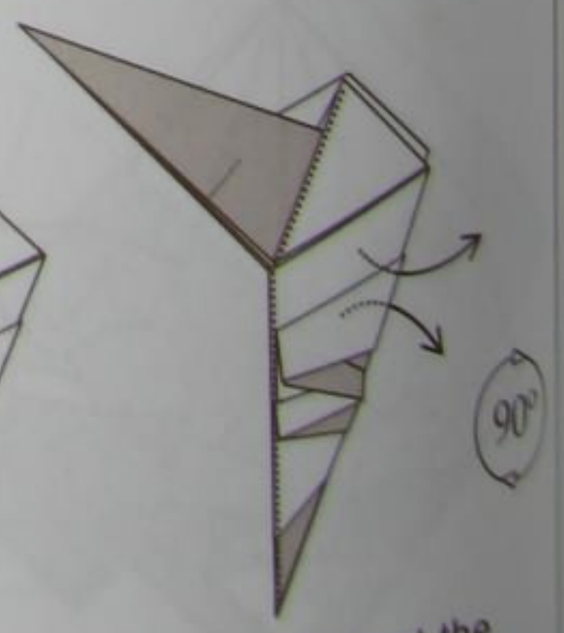


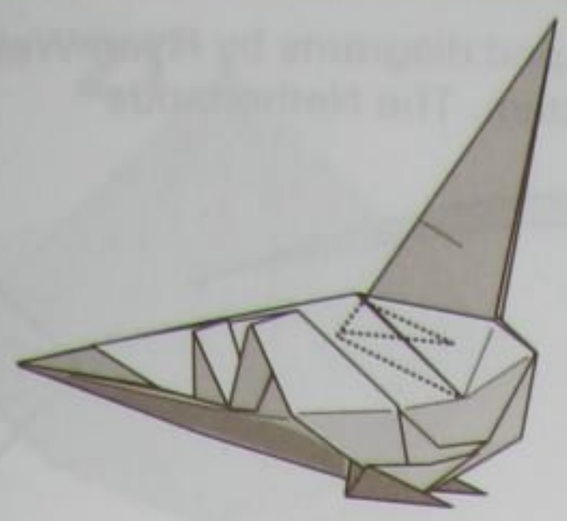
31. Tuck under the nearest layer.

32.

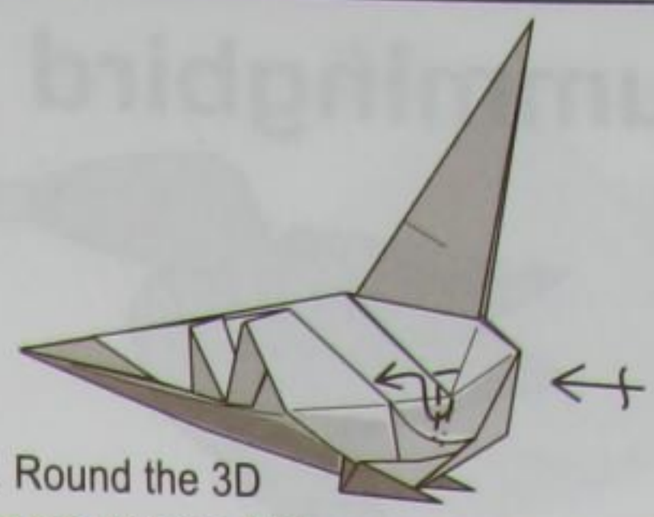



33. Pull out the legs and belly.

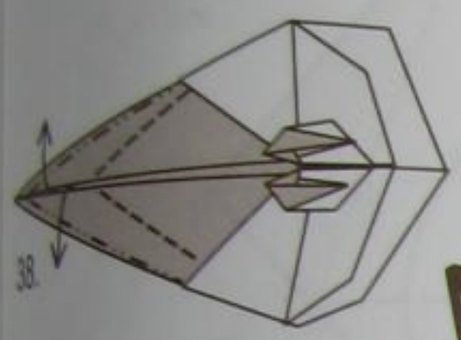
34. Find an edge in the inside of the neck and fold it backwards as far as it will go.



35. Like this.



36. Round the 3D corners reverse-folding some paper under one of the layers of the neck.
While doing this keep the inside layer of the previous step in place with the help of a finger in the inside.



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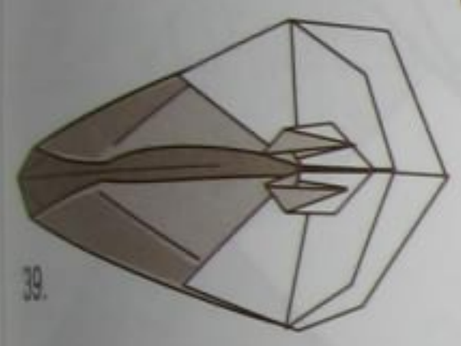

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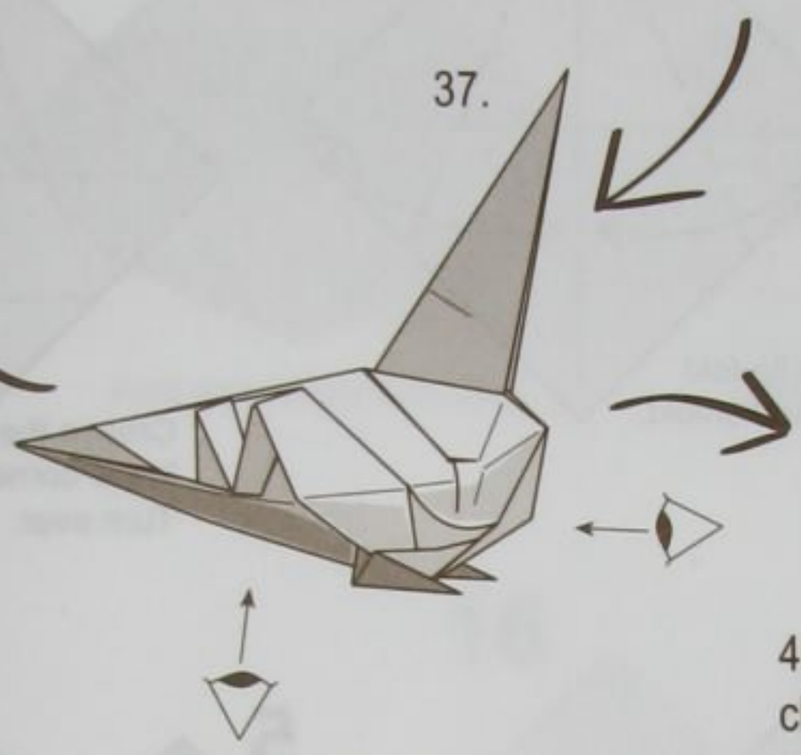

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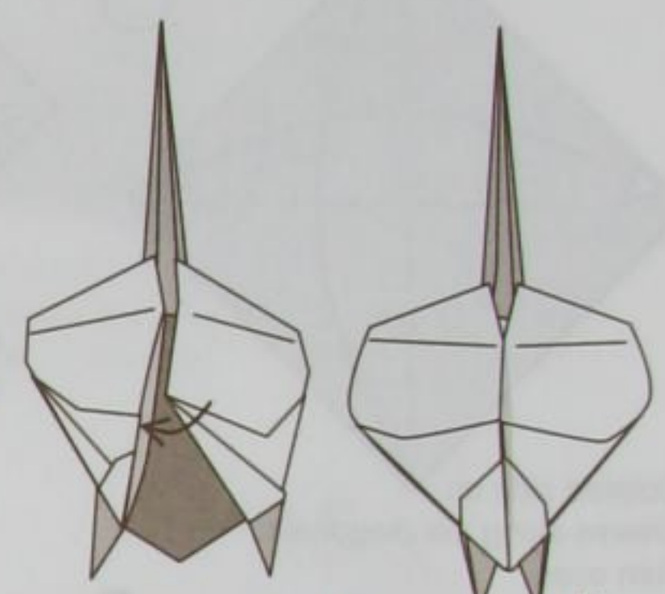
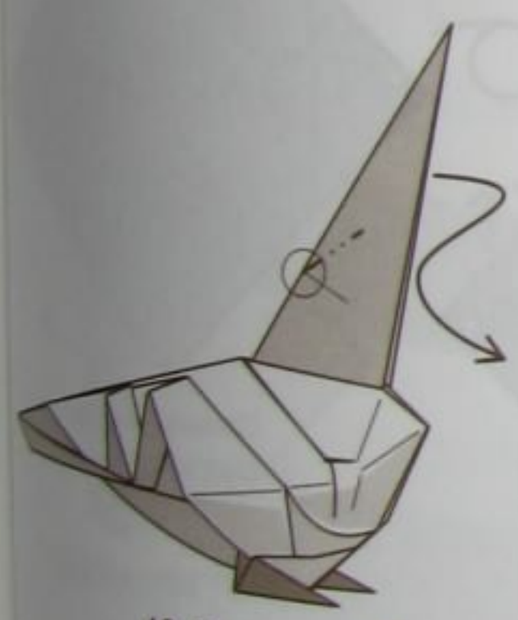
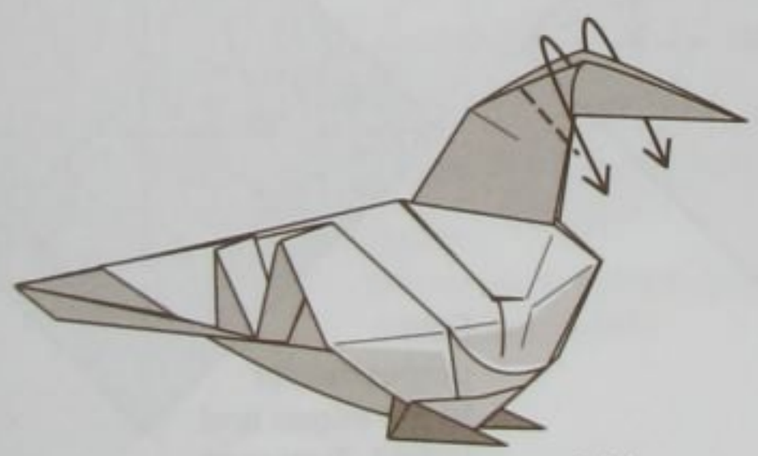


40. Tuck one half of the chest into the other.

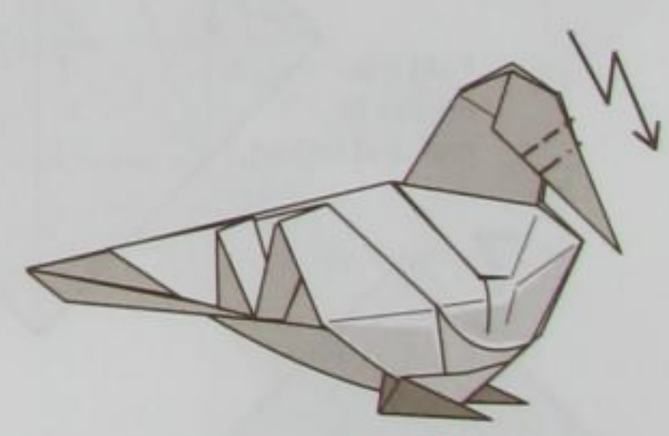
41.



42. Reverse-fold.
Do not flatten all the way.

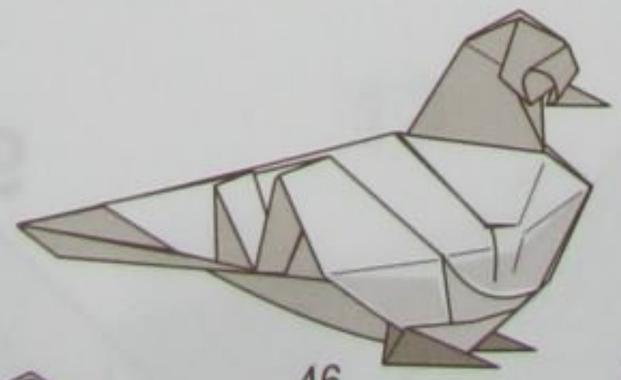


42. Outside reverse-fold.

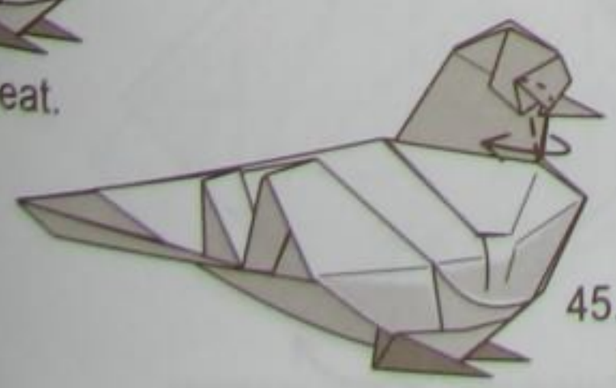


43. Pleat.

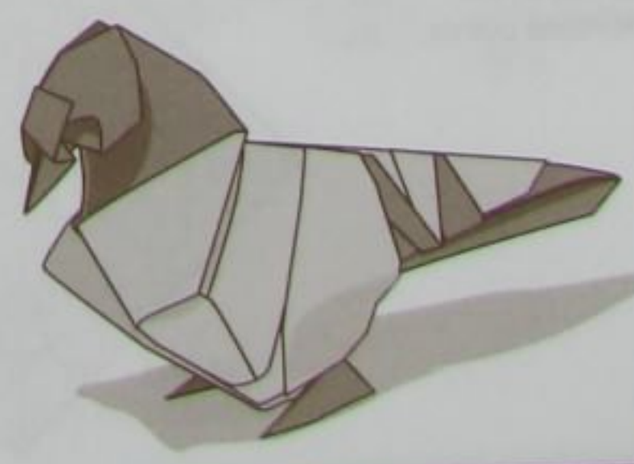
44. Pleat.



46

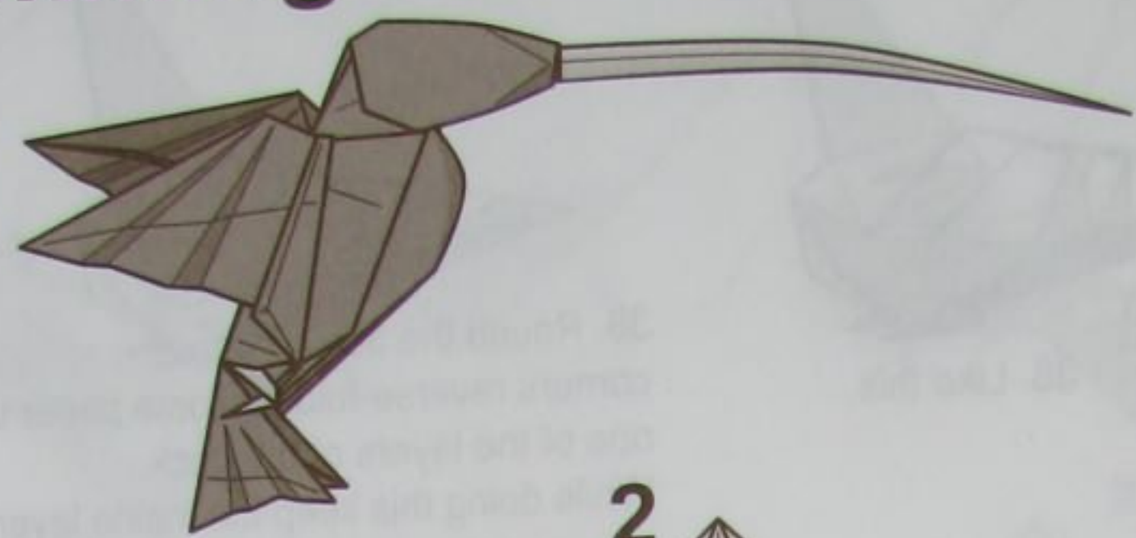


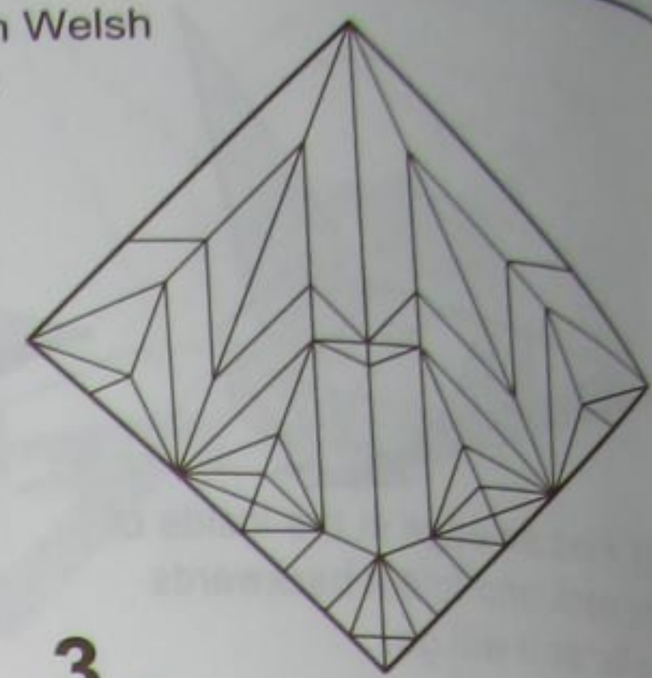
45. Thin the neck and shape the eyes.

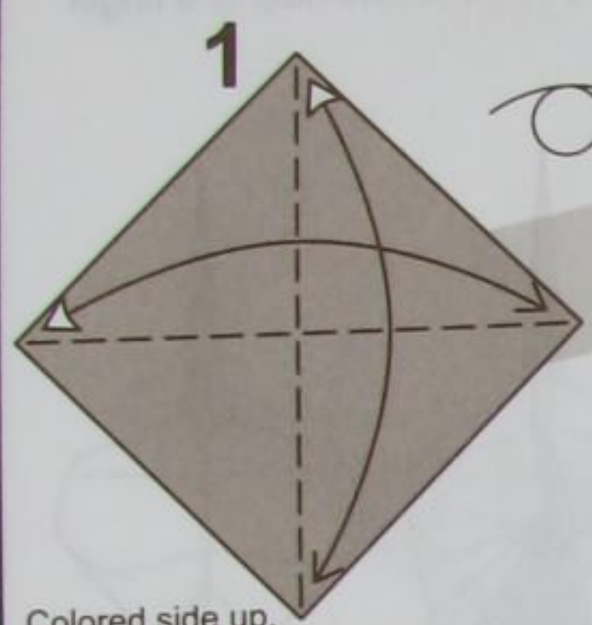


# Hummingbird

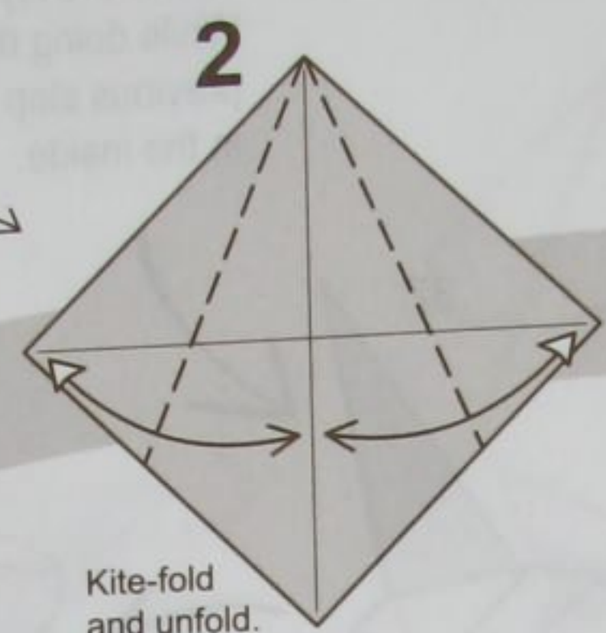
Design and diagrams by Ryan Welsh
Amsterdam, The Netherlands



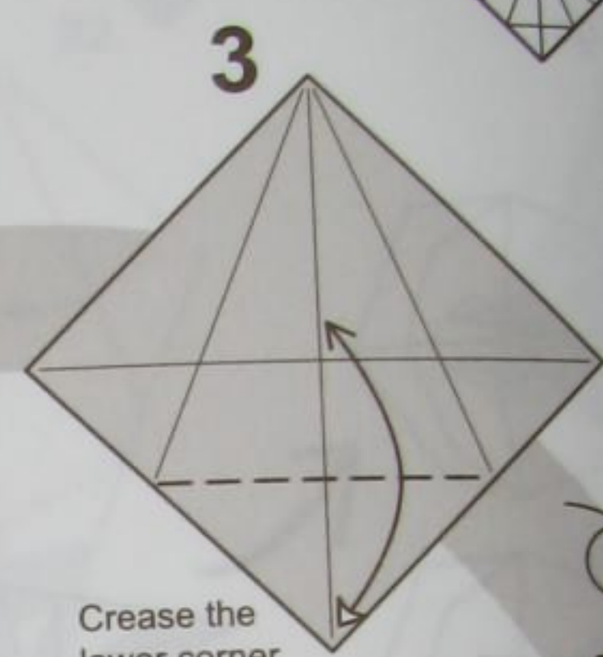




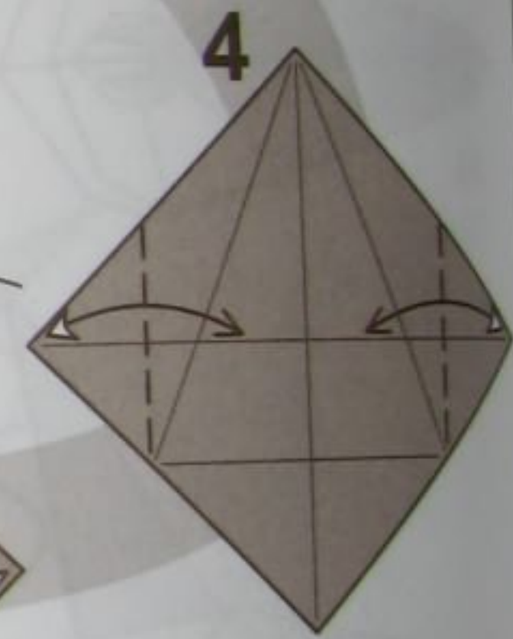

Colored side up.
Crease along the diagonals.
Turn over.



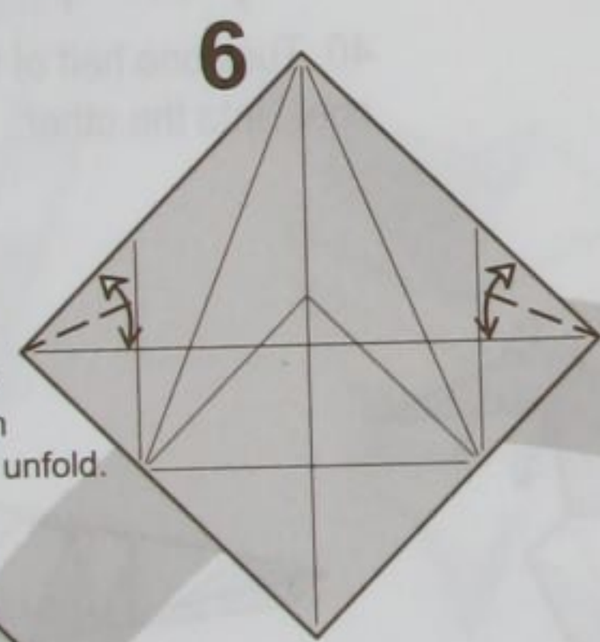

Kite-fold
and unfold.



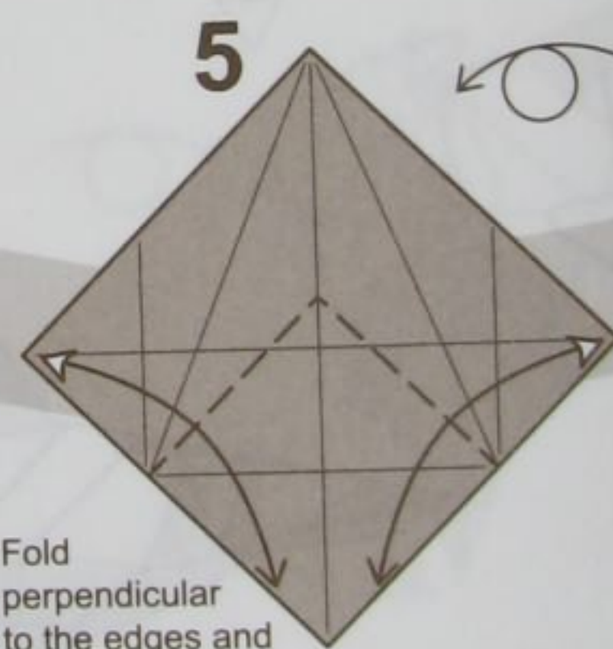

Crease the
lower corner.
Turn over.



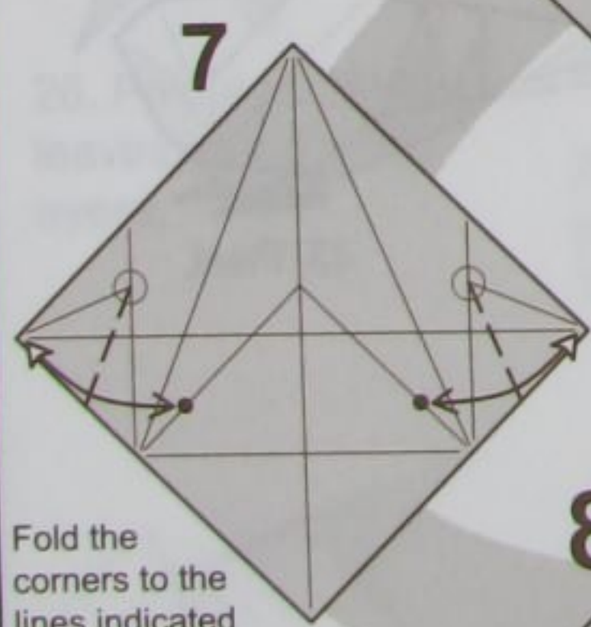

Crease the outer
corners.



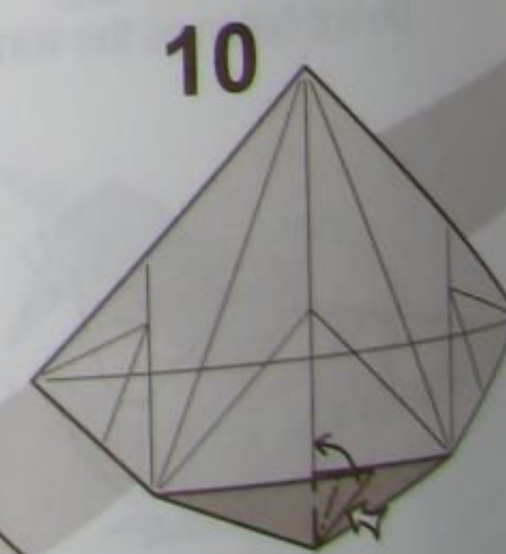

Fold the
angles in
half and unfold.



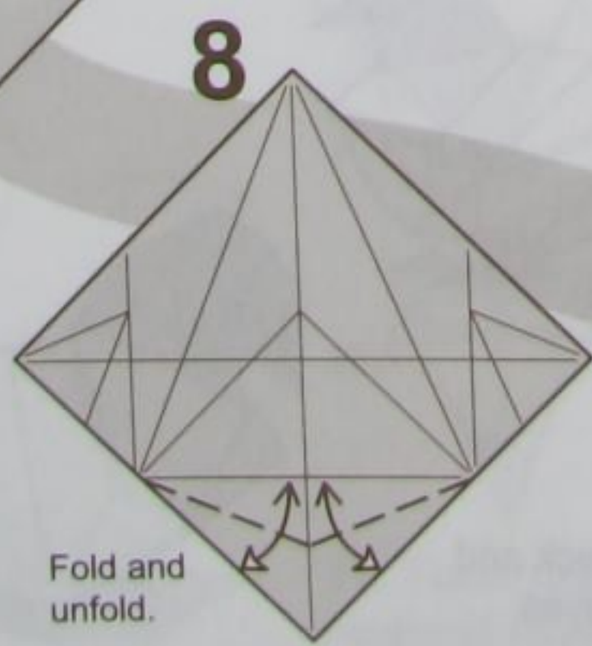

Fold
perpendicular
to the edges and
unfold. Turn over.



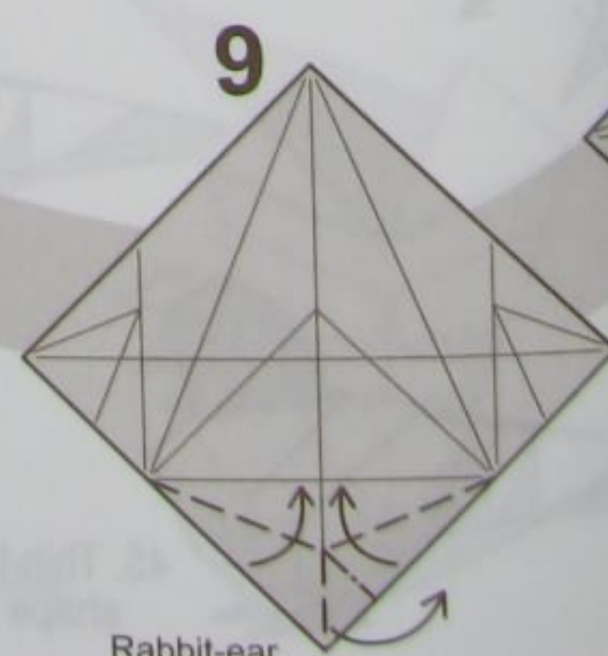

Fold the
corners to the
lines indicated
starting at the
encircled points.



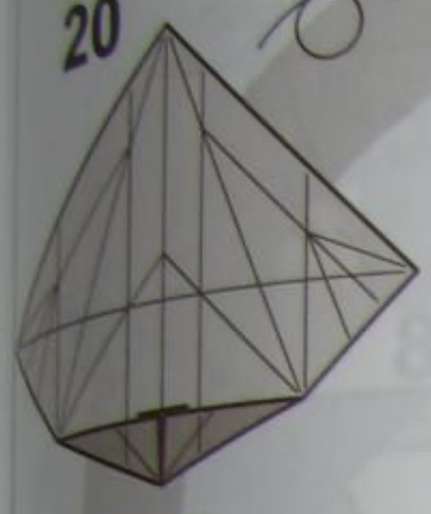

Squash-fold.



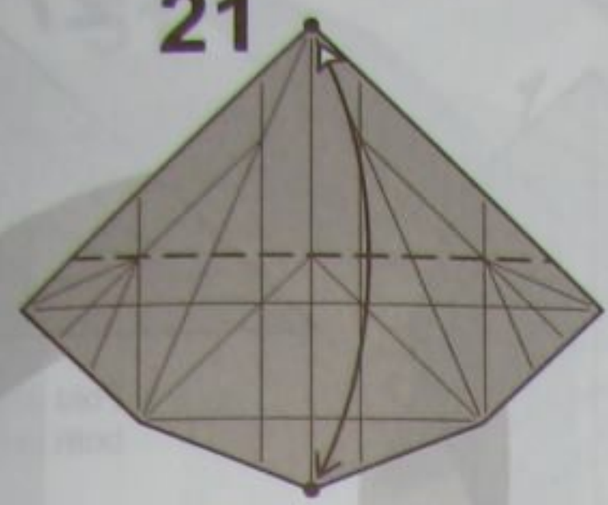

Fold and
unfold.



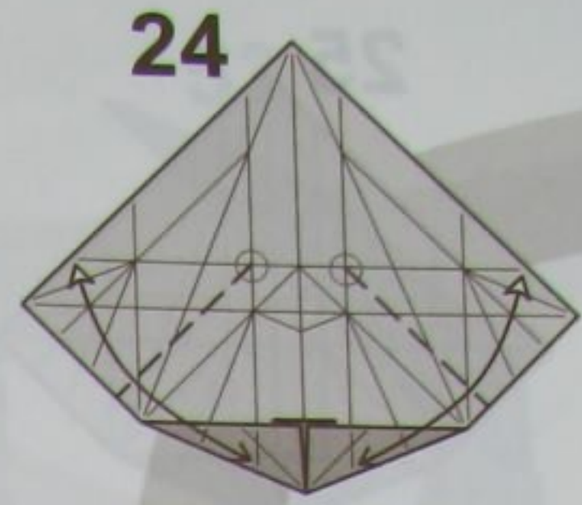

Rabbit-ear.



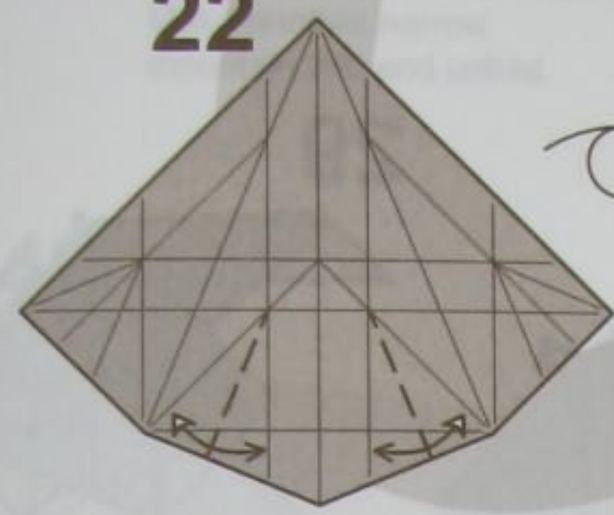

Turn over.



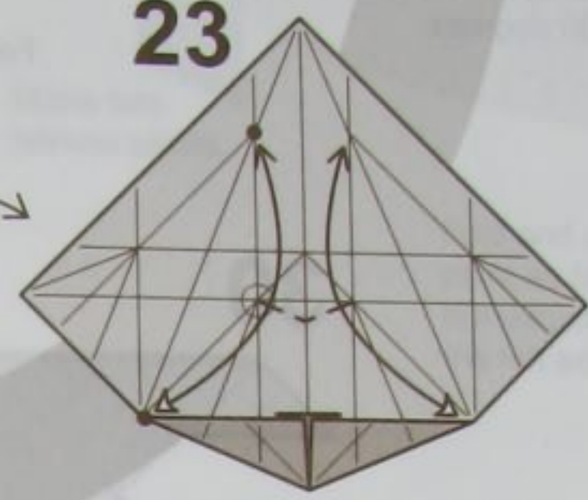

Fold and unfold.



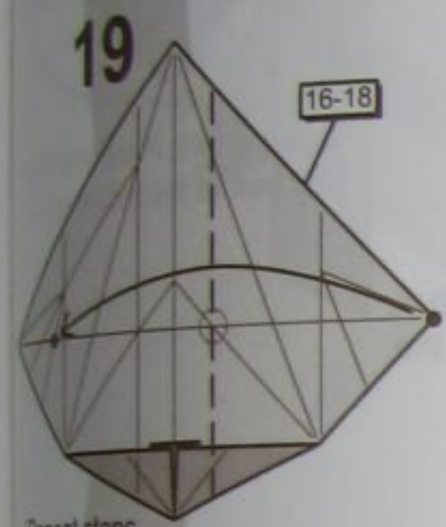

Add two more creases.



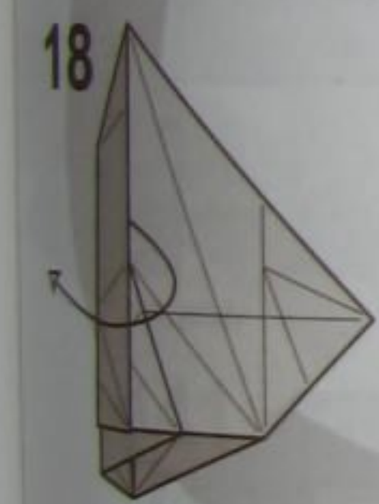

Fold and unfold.Turn over.



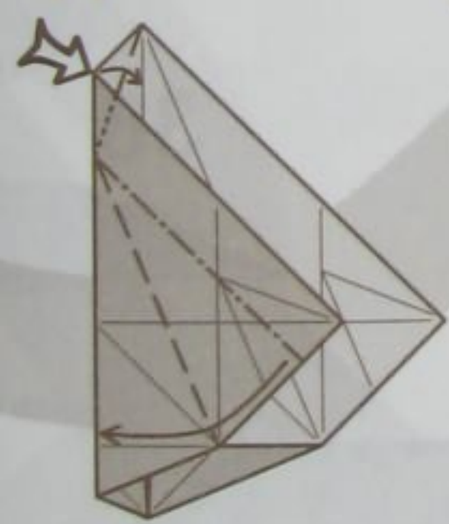

Make a small crease by bringing the corner to the intersection shown. Repeat on the right.



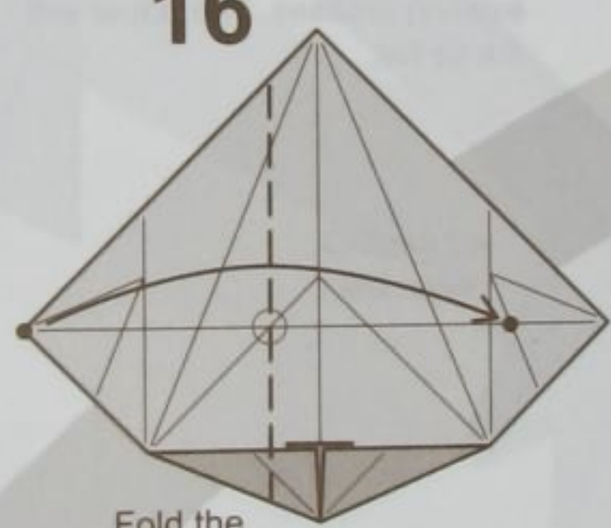

Repeat steps 16-18 on the right.



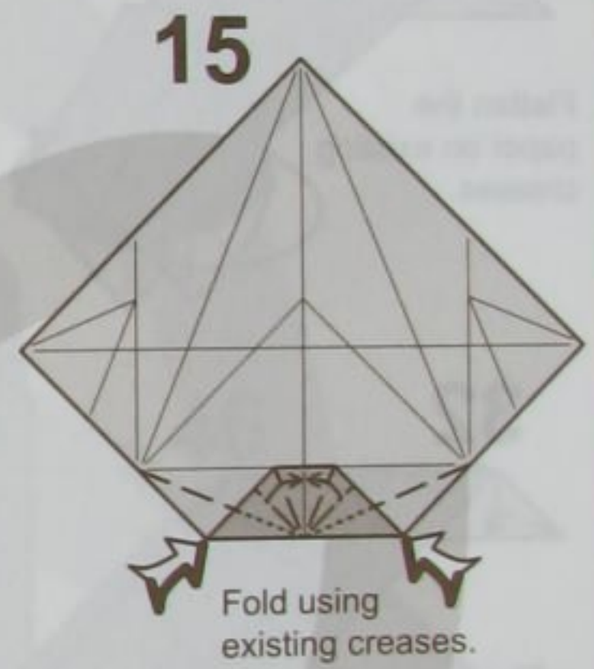

Unfold to step 16.



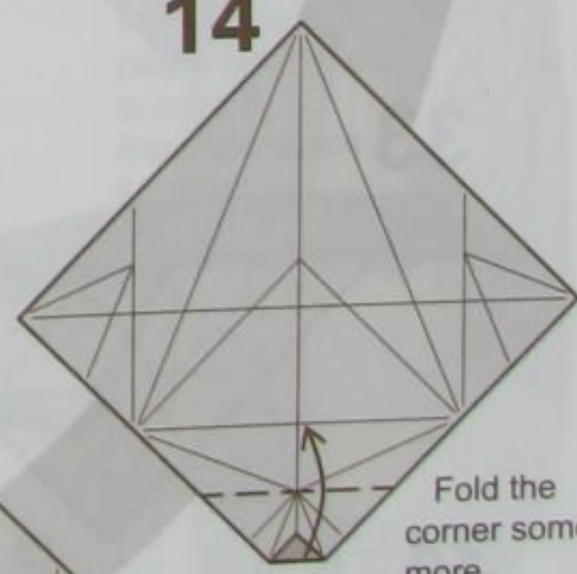

Swivel-fold.



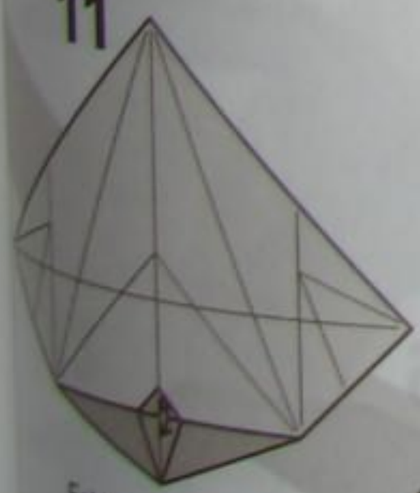

Fold the left corner to the intersection of creases shown.



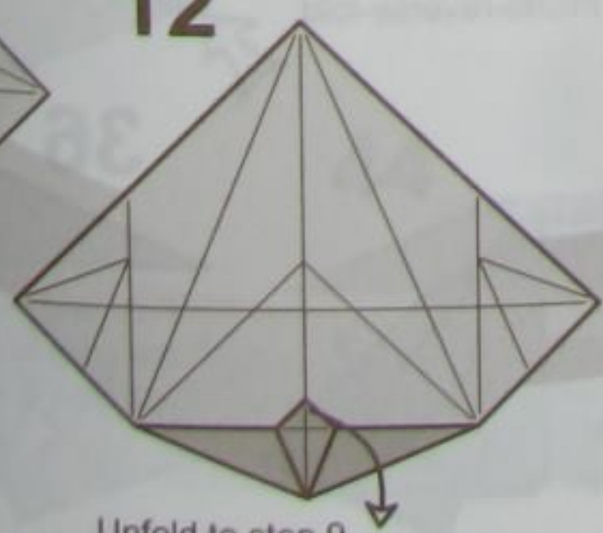

Fold using existing creases.



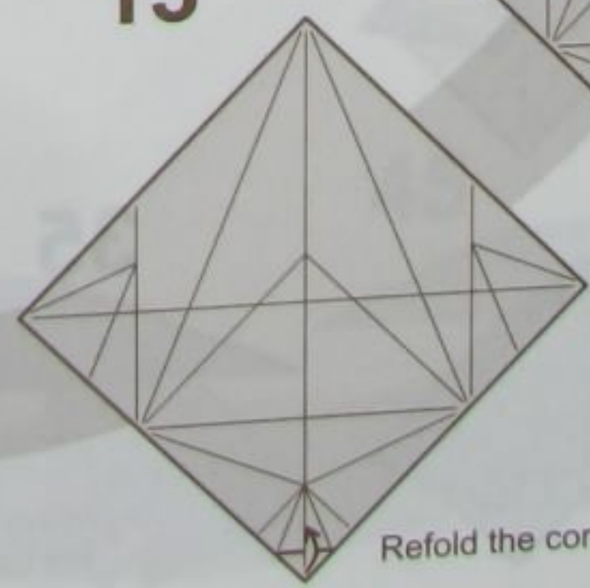

Fold the corner some more.



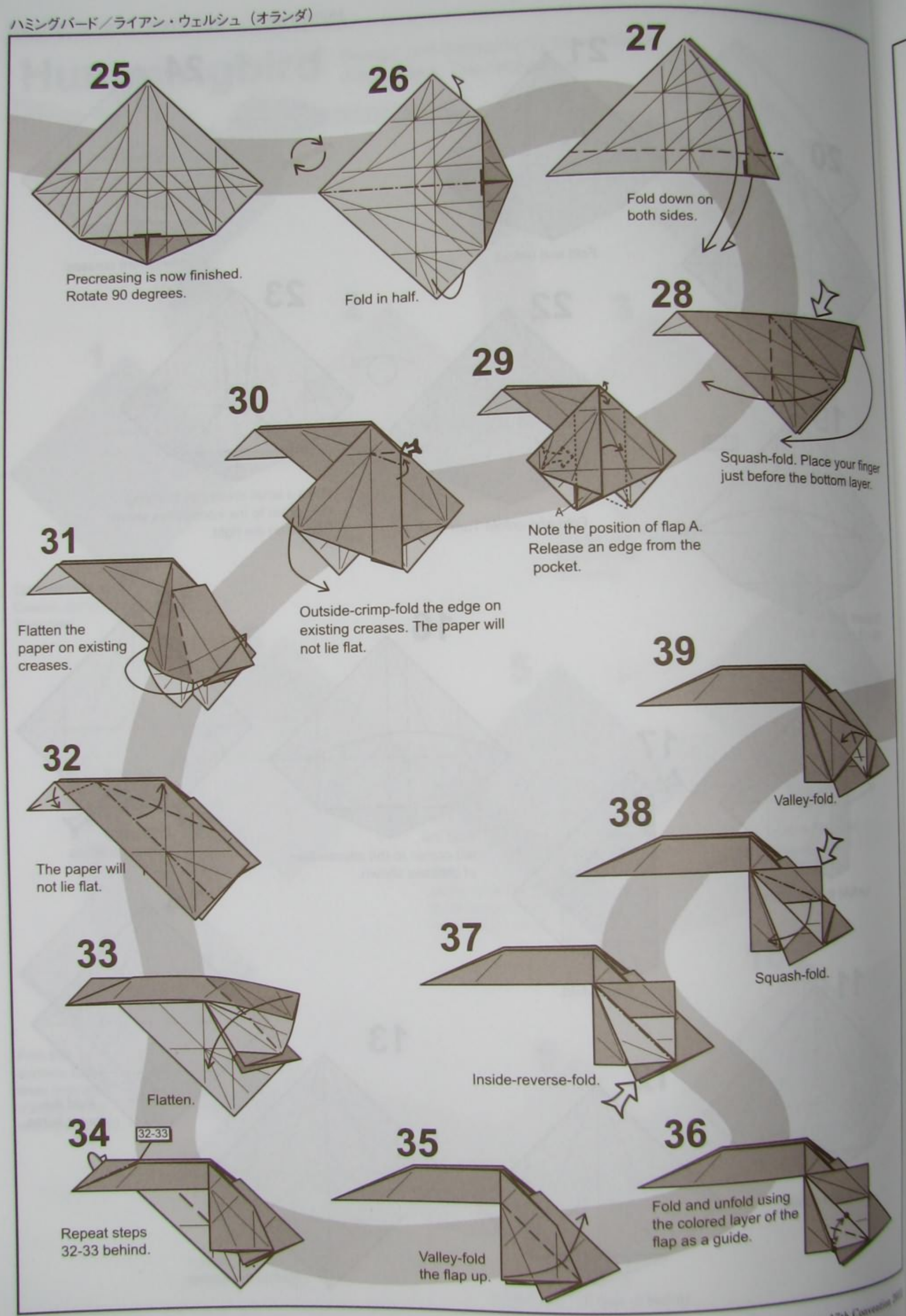

Fold and unfold.

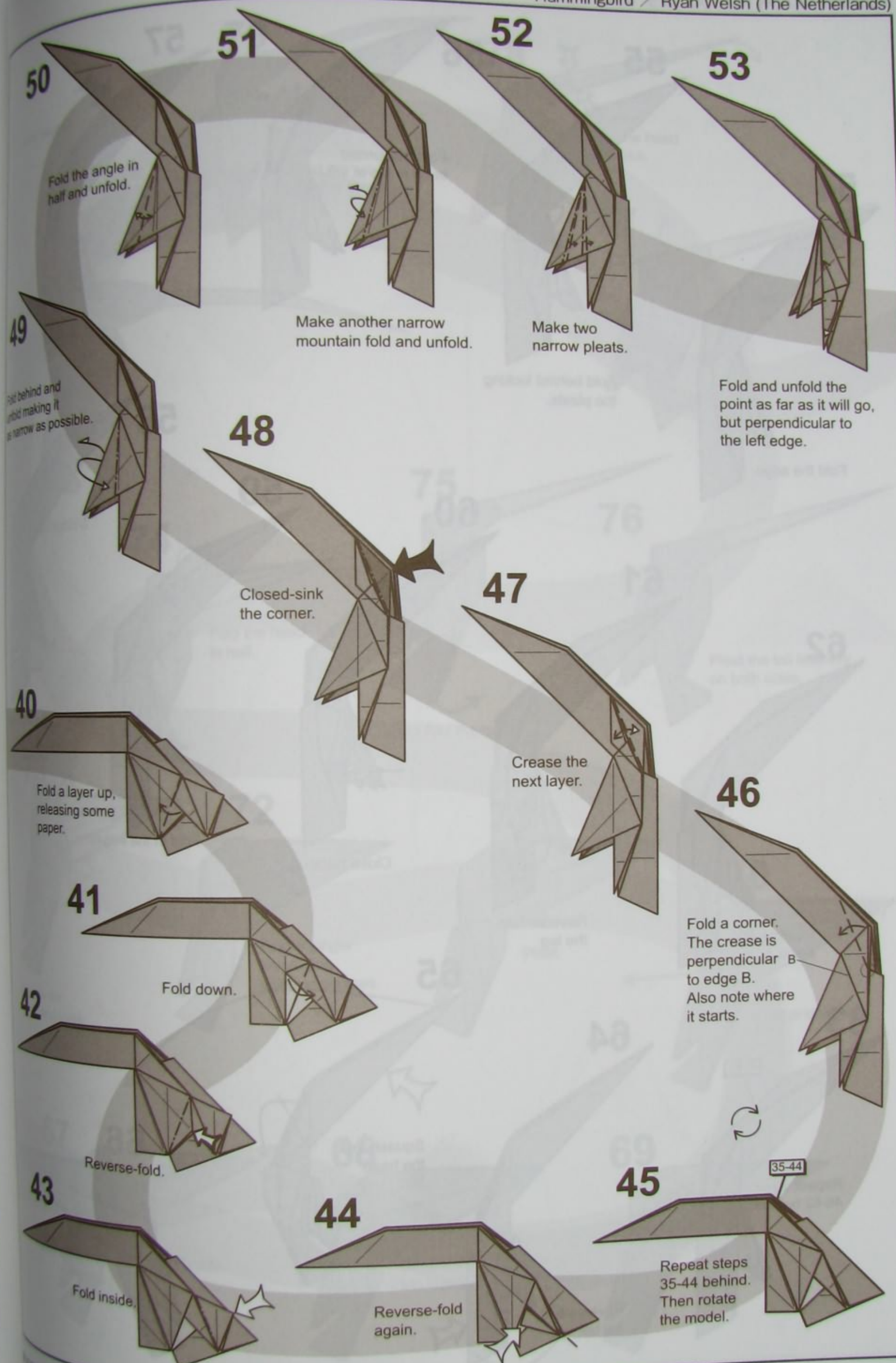


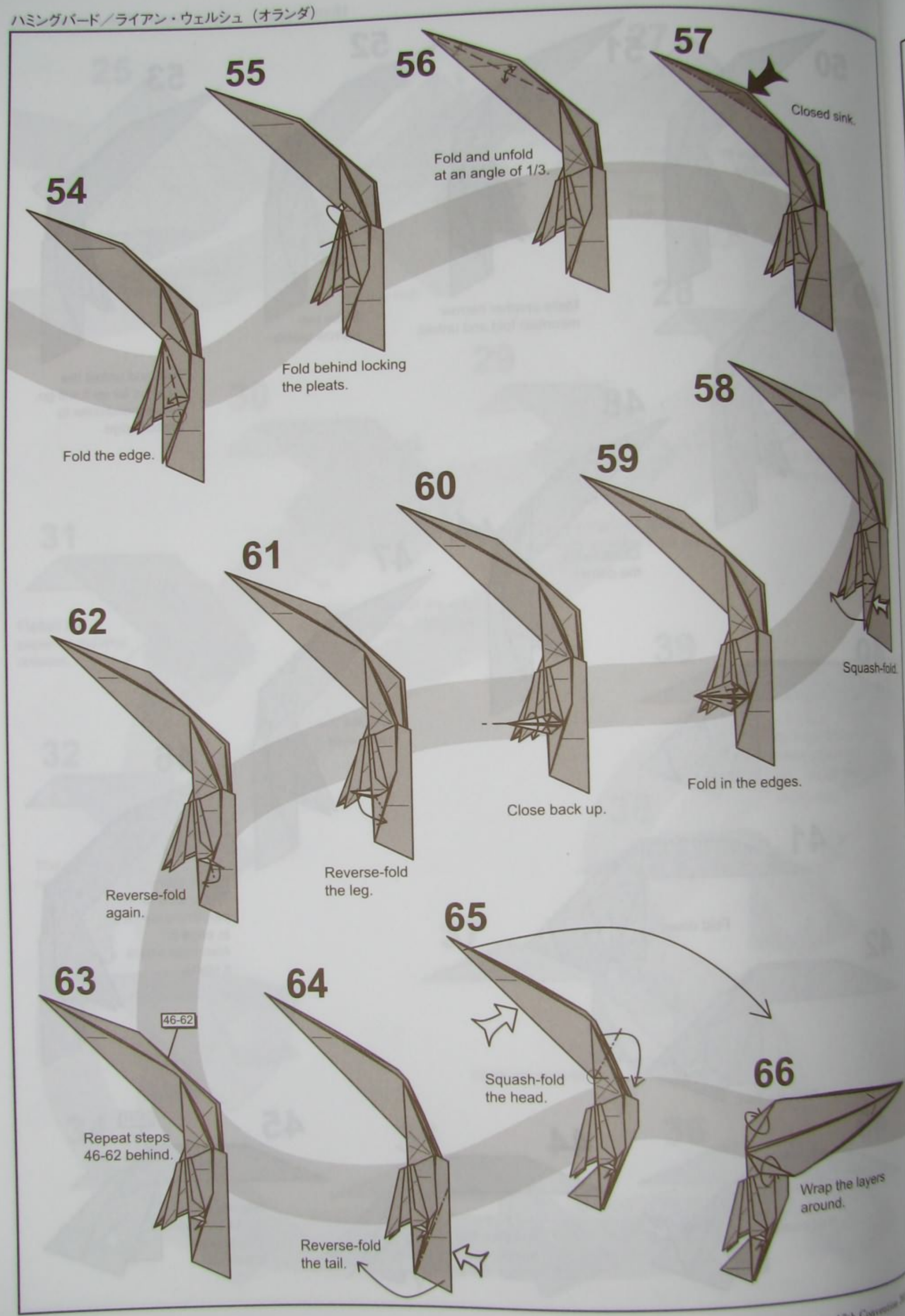

Unfold to step 9.

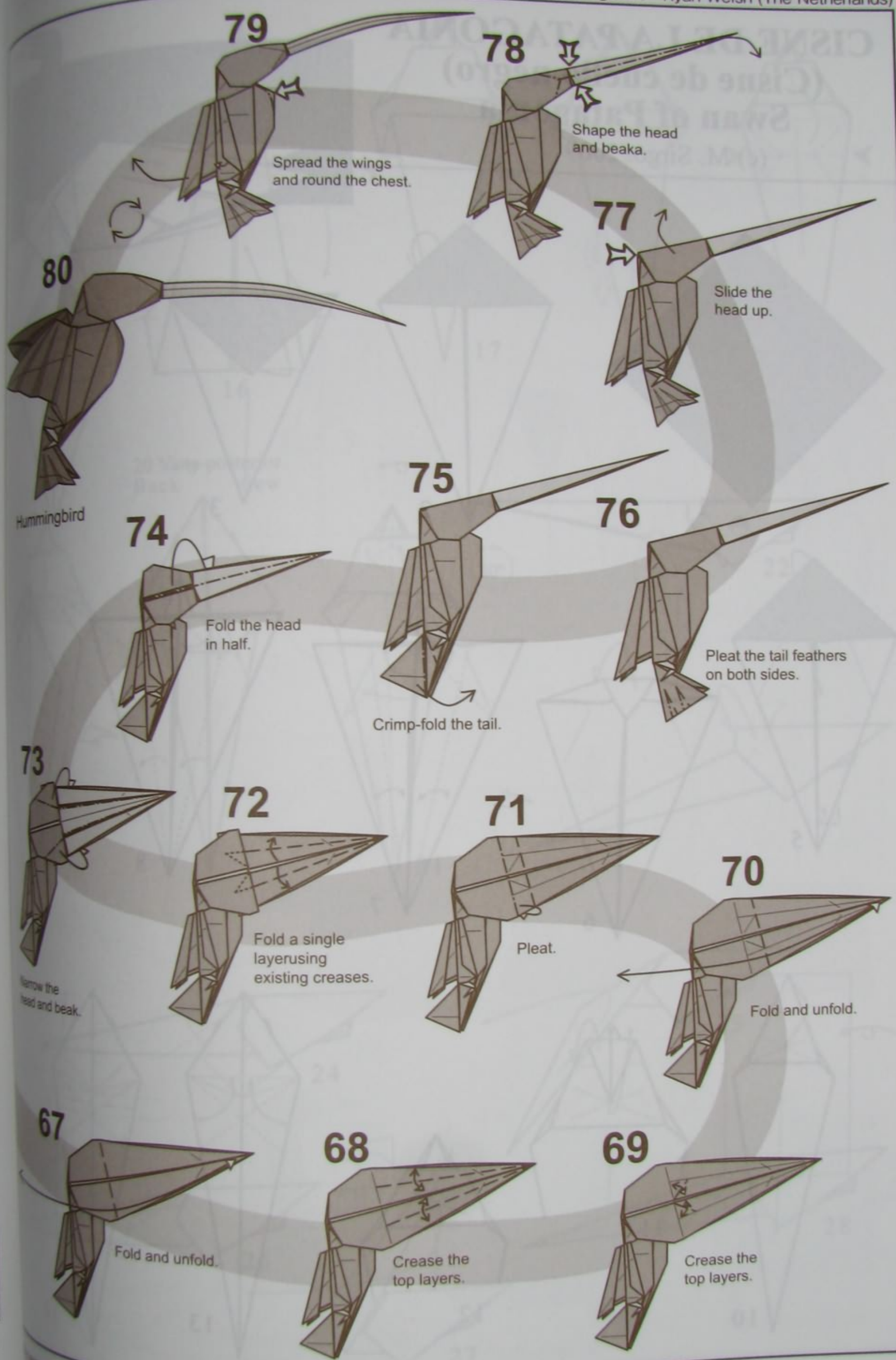



Refold the corner.


25
Precreasing is now finished.
Rotate 90 degrees.
26
Fold in half.
27
Fold down on
both sides.
28
Squash-fold. Place your finger
just before the bottom layer.
29
A
Note the position of flap A.
Release an edge from the
pocket.
30
Outside-crimp-fold the edge on
existing creases. The paper will
not lie flat.
31
Flatten the
paper on existing
creases.
32
The paper will
not lie flat.
33
Flatten.
34
32-33
Repeat steps
32-33 behind.
35
Valley-fold
the flap up.
36
Fold and unfold using
the colored layer of the
flap as a guide.
37
Inside-reverse-fold.
38
Squash-fold.
39
Valley-fold.

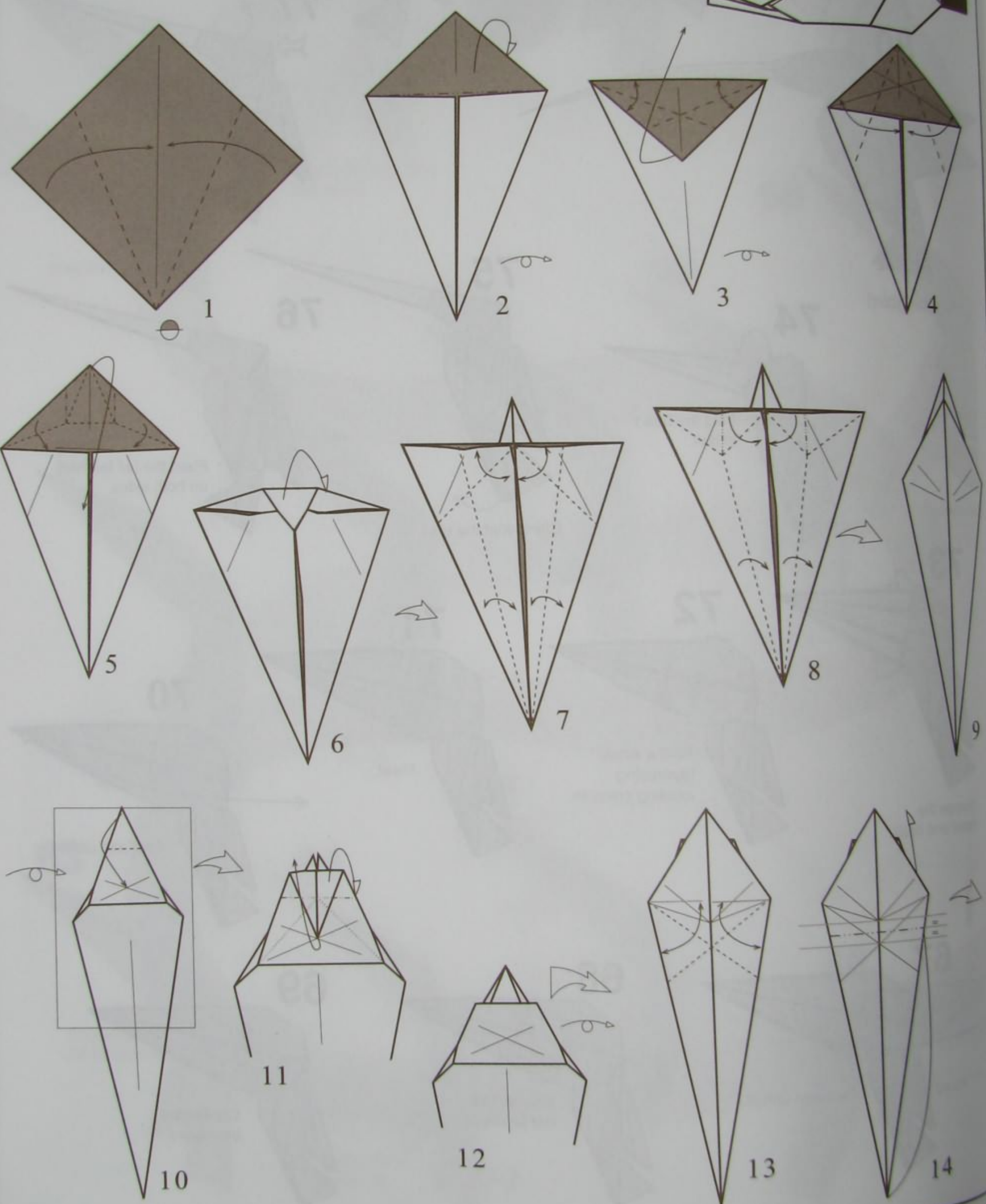

50
Fold the angle in half and unfold.
51
Make another narrow mountain fold and unfold.
52
Make two narrow pleats.
53
Fold and unfold the point as far as it will go, but perpendicular to the left edge.
49
Fold behind and unfold making it as narrow as possible.
48
Closed-sink the corner.
47
Crease the next layer.
46
Fold a corner. The crease is perpendicular to edge B. Also note where it starts.
B
40
Fold a layer up, releasing some paper.
41
Fold down.
42
Reverse-fold.
43
Fold inside.
44
Reverse-fold again.
45
35-44
Repeat steps 35-44 behind. Then rotate the model.

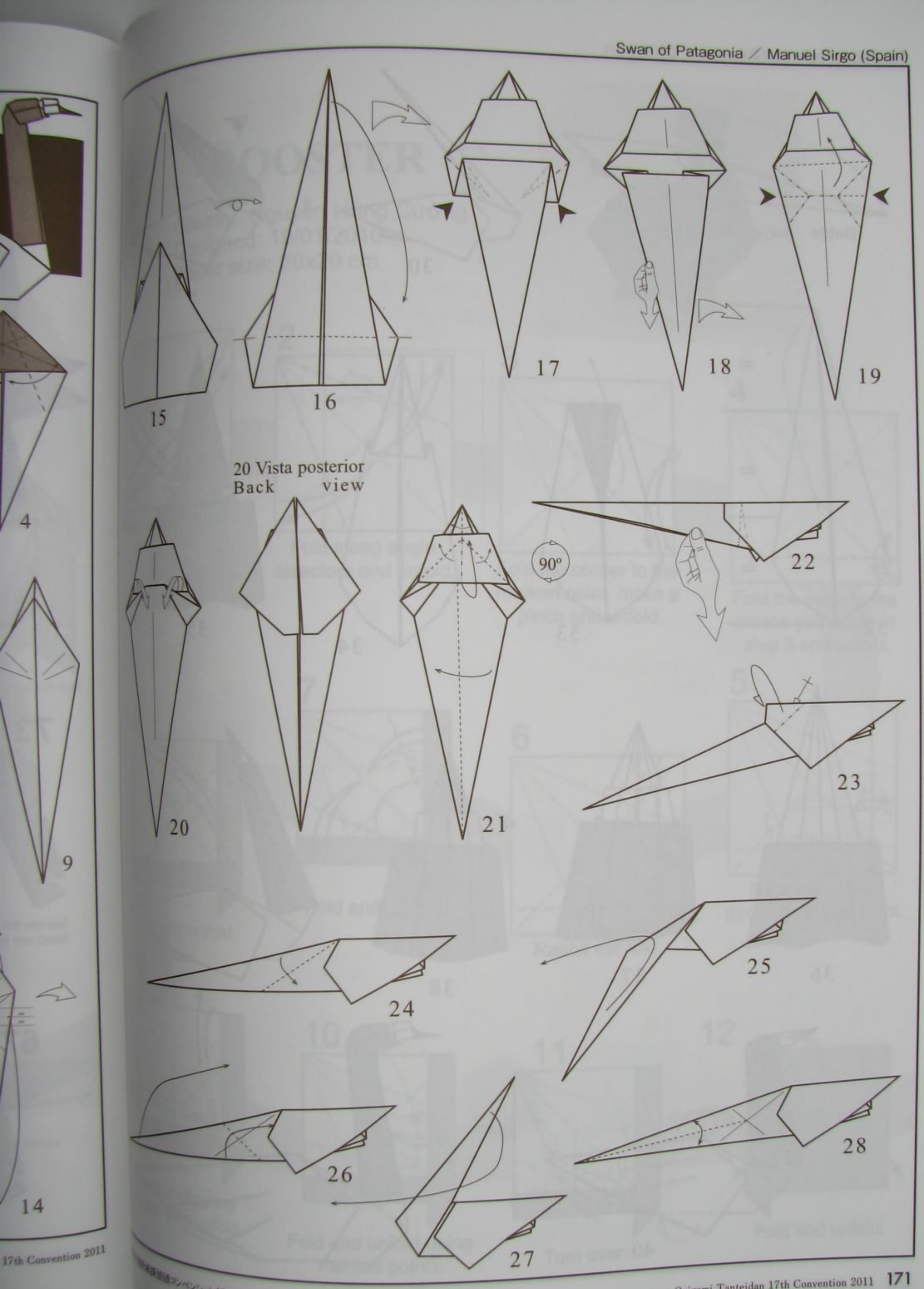

54
Fold the edge.
55
Fold behind locking the pleats.
56
Fold and unfold at an angle of 1/3.
57
Closed sink.
58
Squash-fold.
59
Fold in the edges.
60
Close back up.
61
Reverse-fold the leg.
62
Reverse-fold again.
63
46-62
Repeat steps 46-62 behind.
64
Reverse-fold the tail.
65
Squash-fold the head.
66
Wrap the layers around.

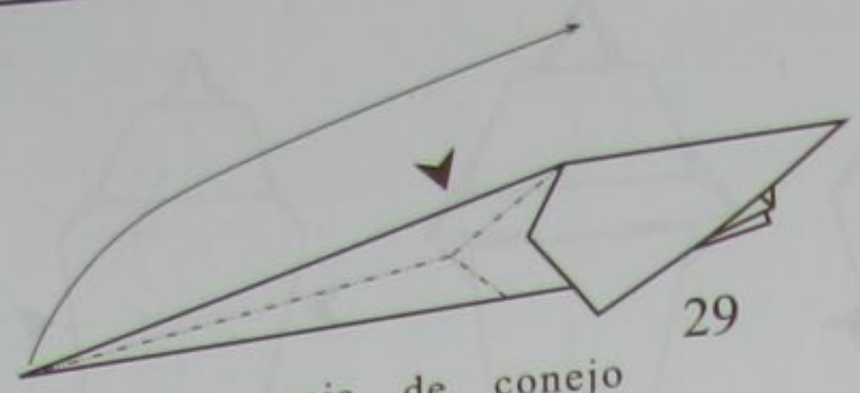

79
Spread the wings
and round the chest.
78
Shape the head
and beaka.
77
Slide the
head up.
80
Hummingbird
74
Fold the head
in half.
75
Crimp-fold the tail.
76
Pleat the tail feathers
on both sides.
73
72
Fold a single
layerusing
existing creases.
71
Pleat.
70
Fold and unfold.
67
Fold and unfold.
68
Crease the
top layers.
69
Crease the
top layers.

# CISNE DE LA PATAGONIA
## (Cisne de cuello negro)
## Swan of Patagonia

(c) M. Sirgo. 2009

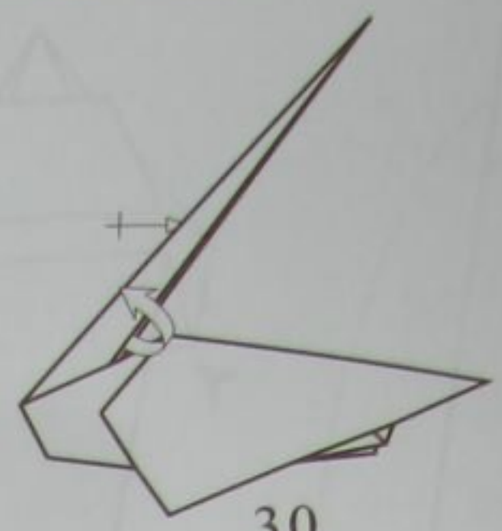



15
16
17
18
19
20 Vista posterior
Back view
20
21
90º
22
23
24
25
26
27
28



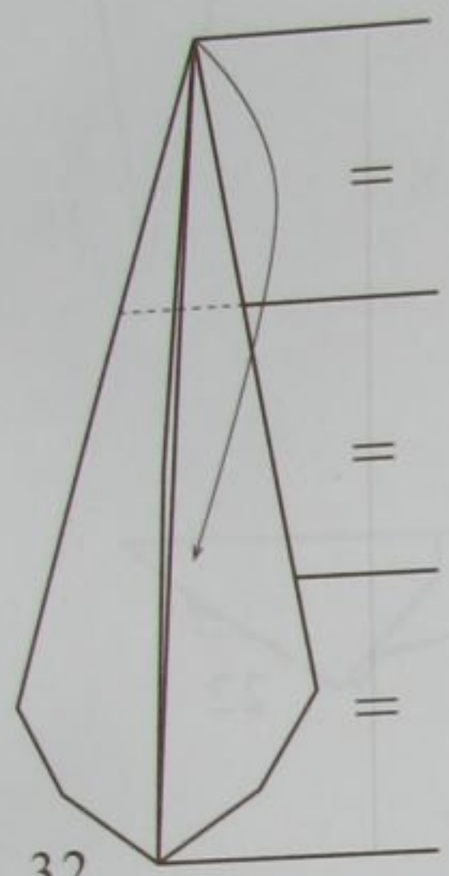
29

Doble oreja de conejo



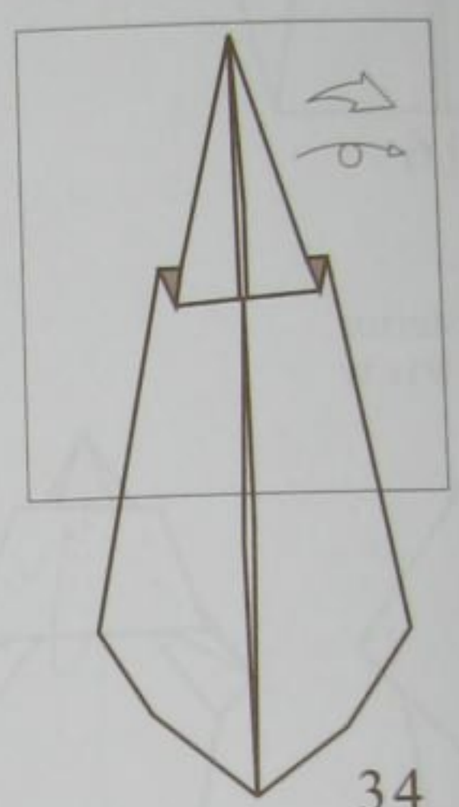
30

31

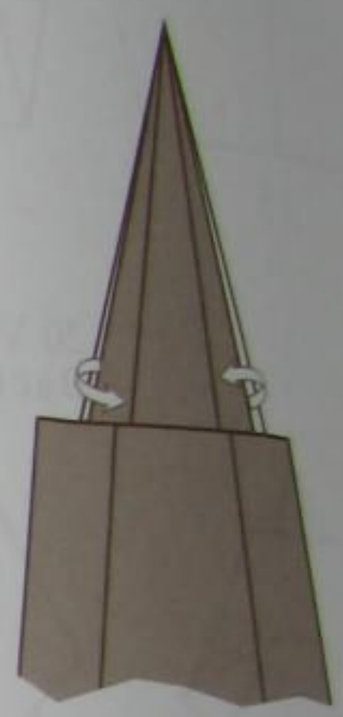


32

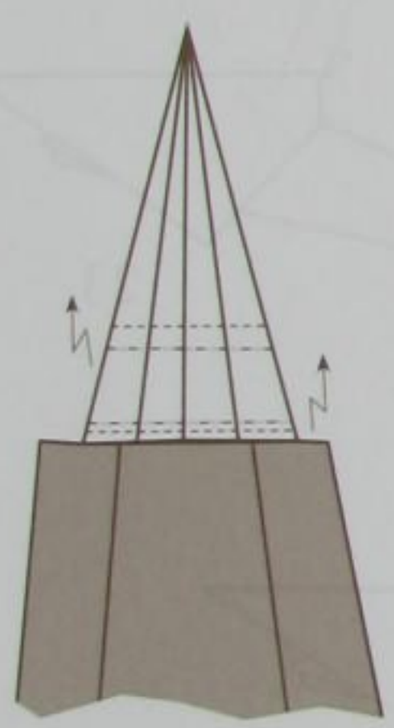
33



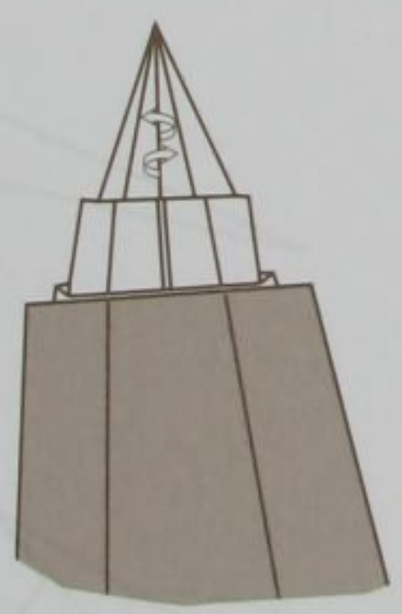
34



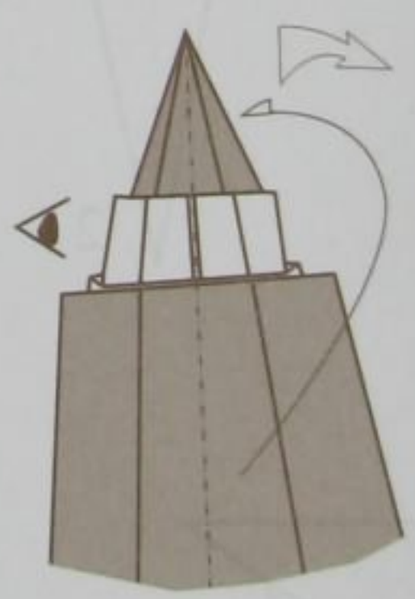
35



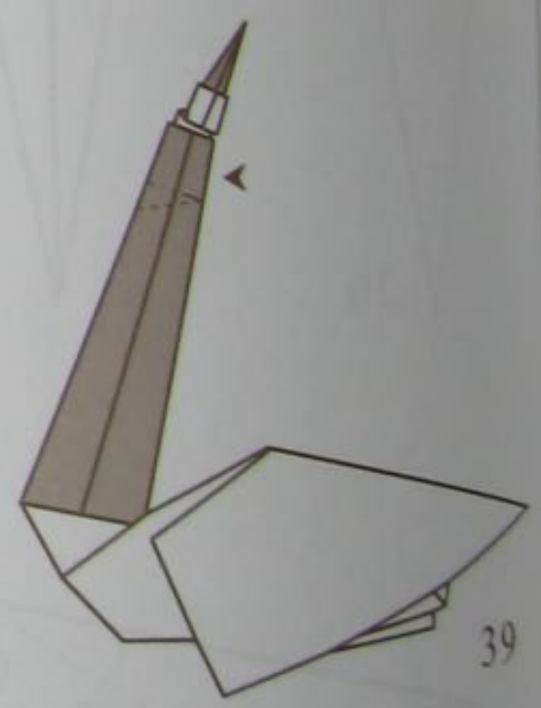
36



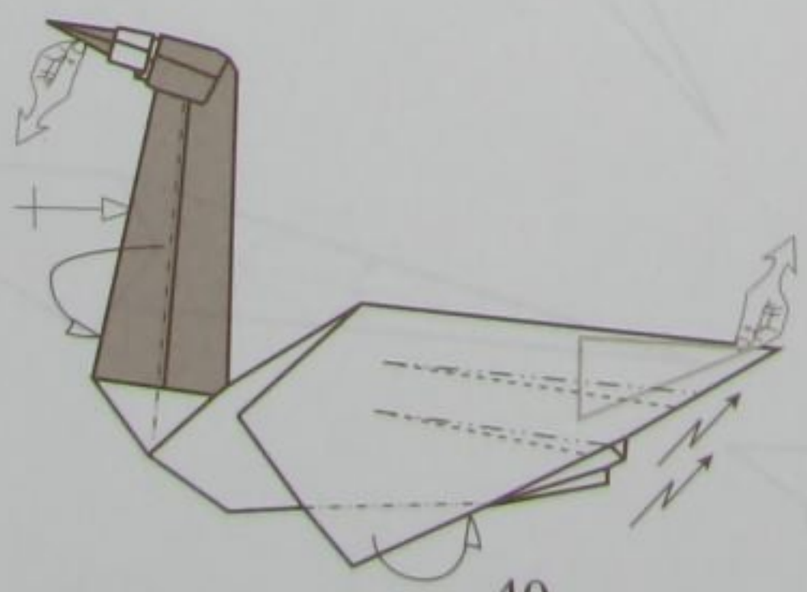
37



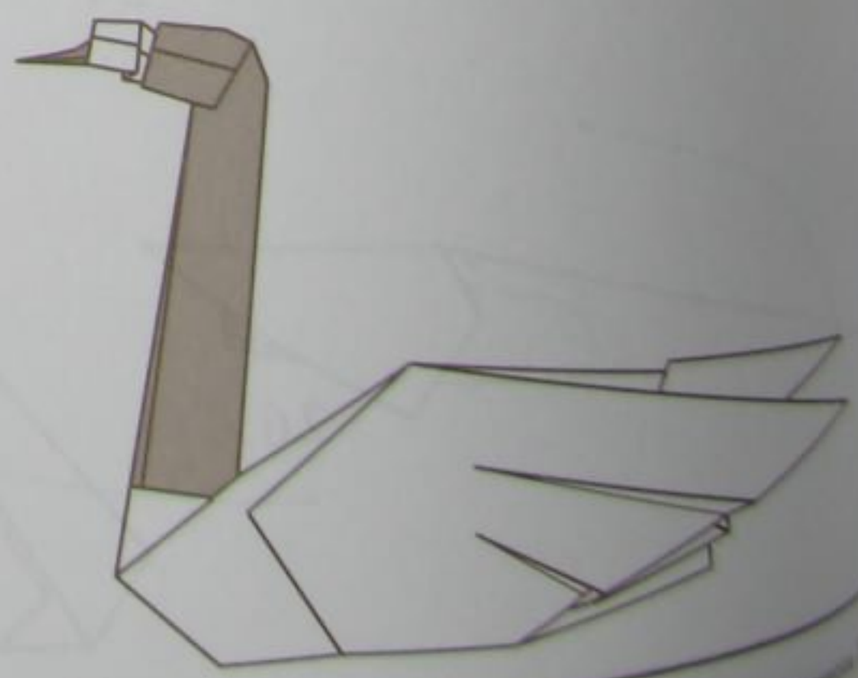
38



39

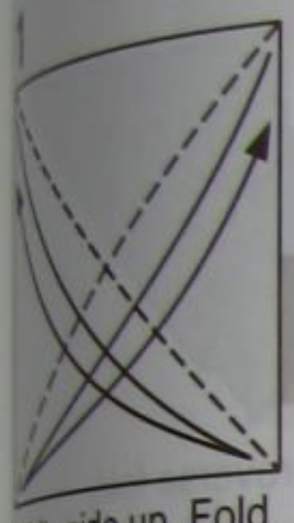


40



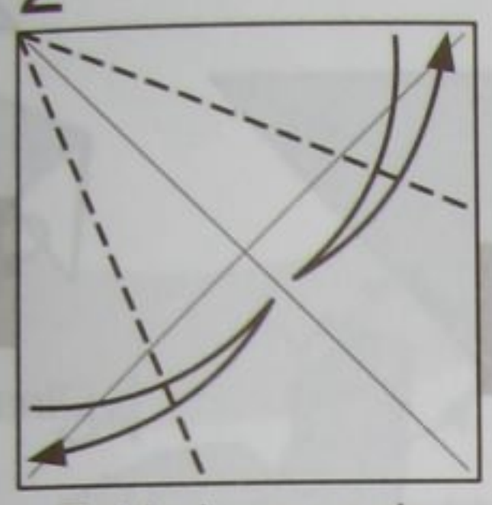
# ROOSTER

Creator: Nguyễn Hùng Cường
Designed: 19/01/2010
Paper size: 20x20 cm



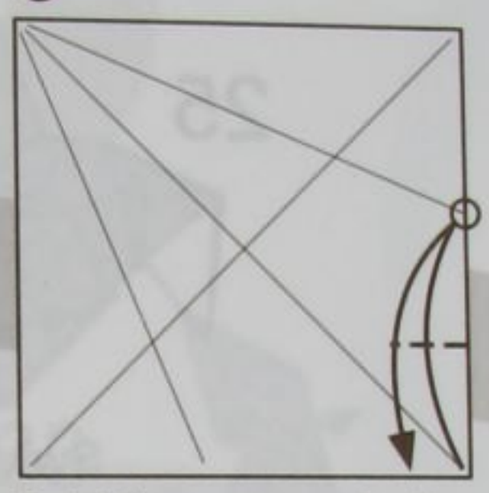
White side up. Fold and unfold.

2



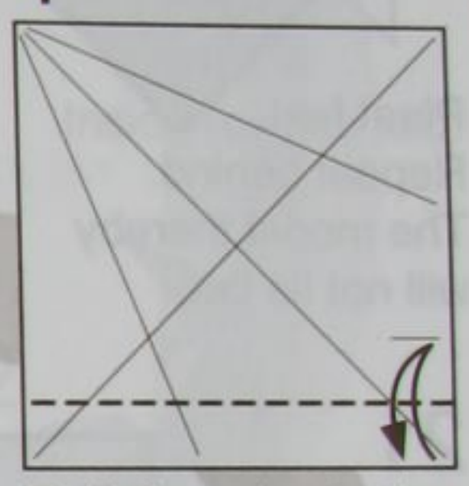
Fold along angle bisectors and unfold.

3



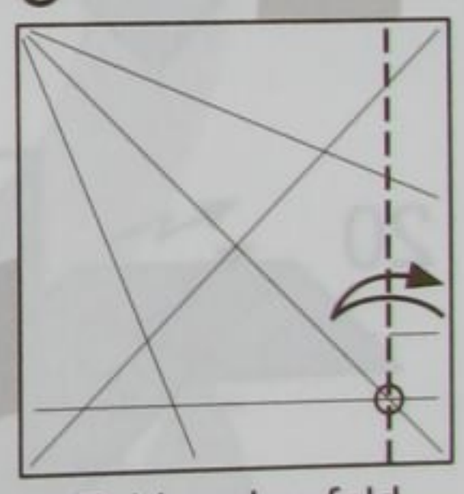
Fold the corner to the marked point, make a pinch and unfold.

4



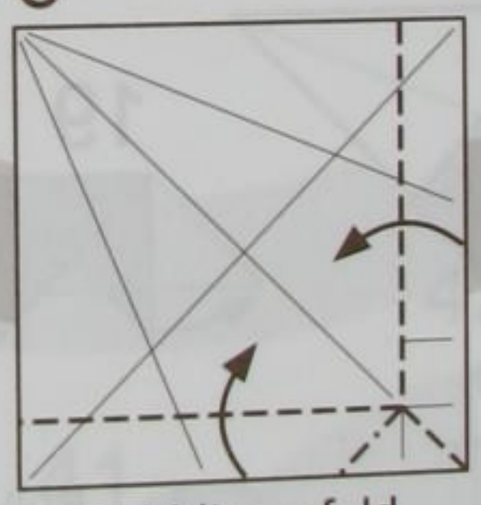
Fold the edge to the crease you made in step 3 and unfold.

5



Fold and unfold through marked point.

6



Rabbit ear fold.

7

Fold and unfold.

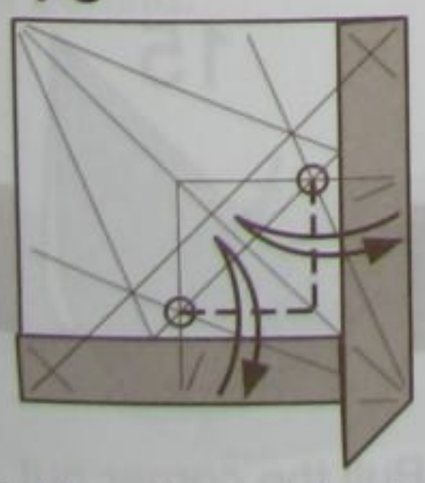
8

Fold and unfold.

9

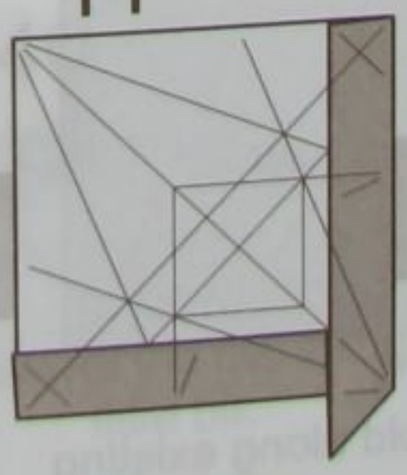
Fold and align the edges, then unfold.

10



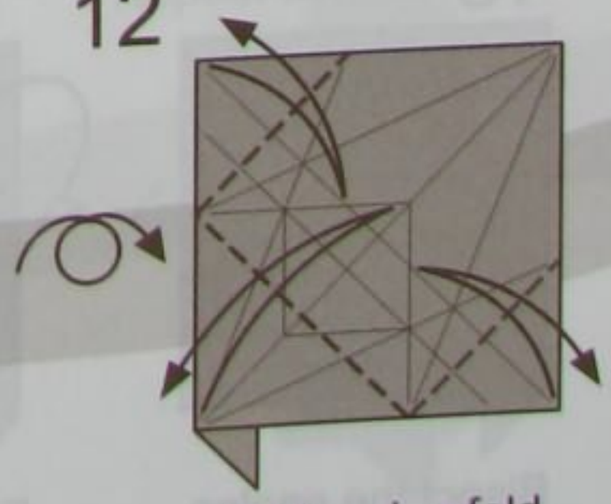
Fold and unfold using marked points.

11

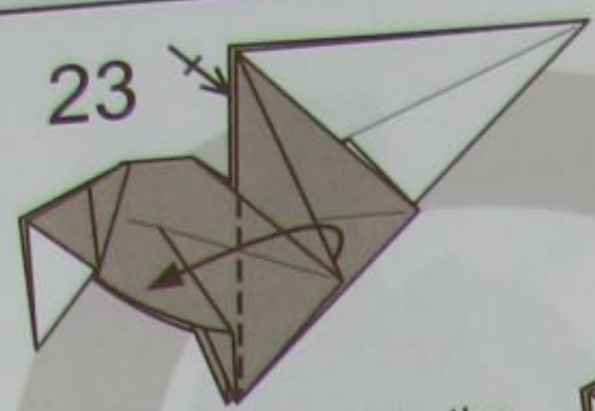


Turn over.

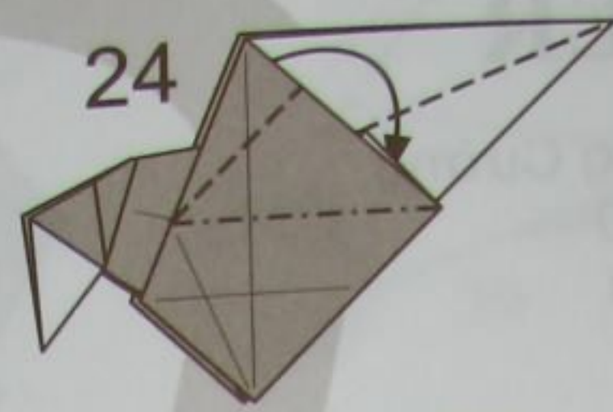
12



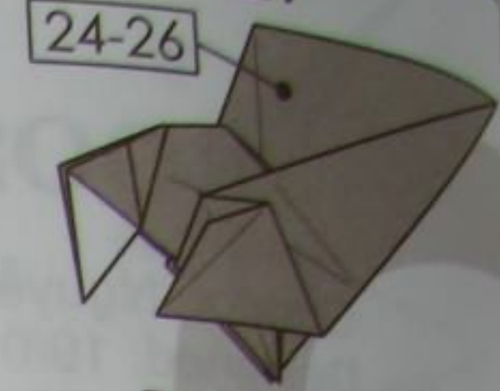
Fold and unfold.



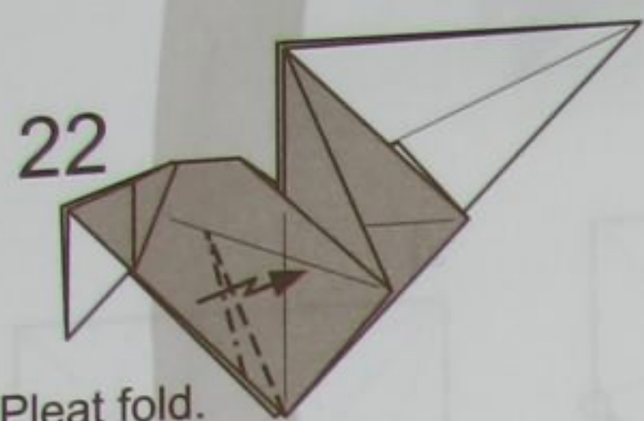

Fold the corner to the right. Repeat behind.



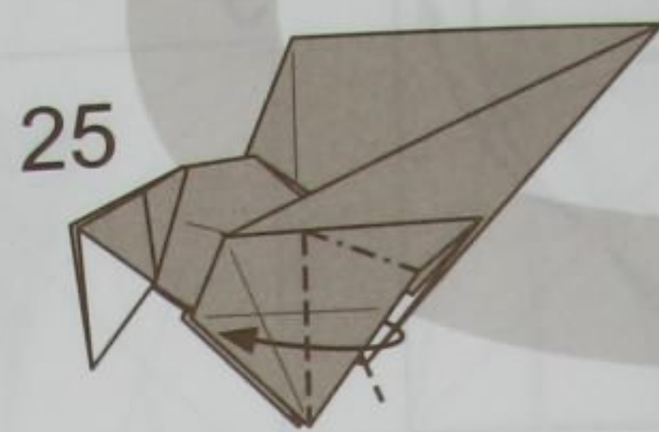

Inside reverse fold.



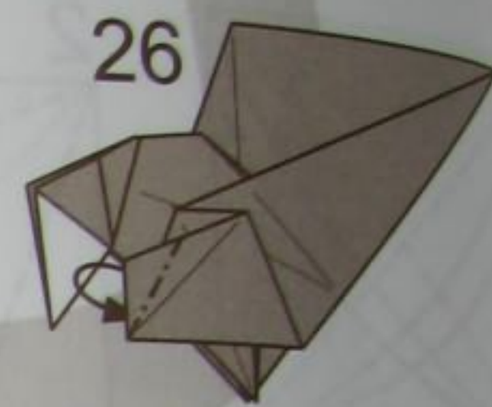

Repeat steps 24-26 behind.



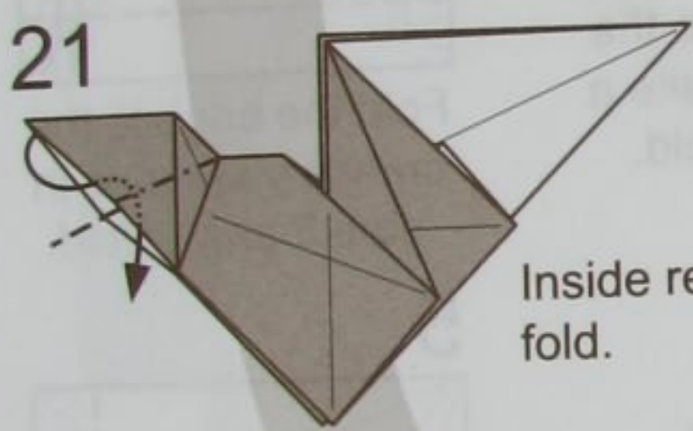

Pleat fold.
Repeat behind.
The model thereby will not lie flat.




Swivel fold.

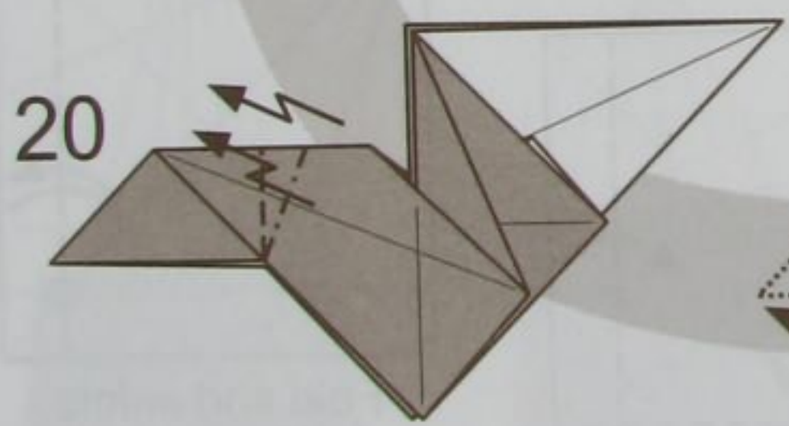



Inside reverse fold.

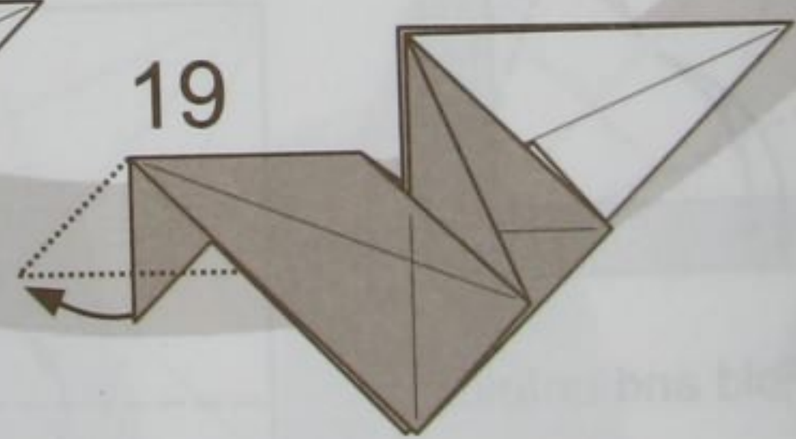



Inside reverse fold.

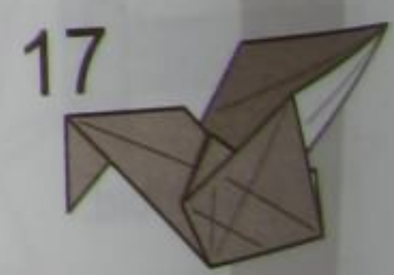
Fold the corner to the right. Repeat behind.




Crimp and sink.

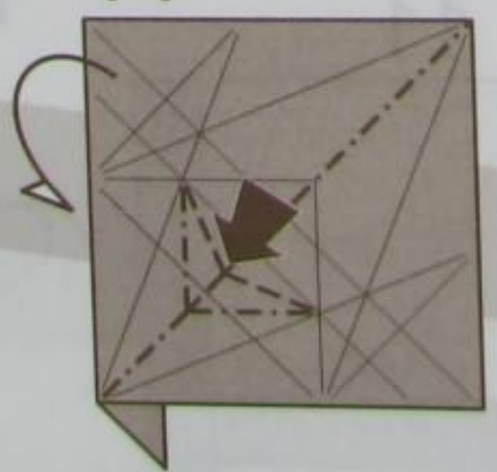



Pull the corner out.




Flattening...

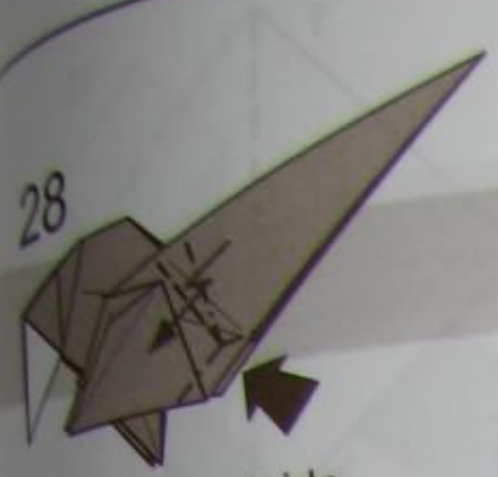
Bisect the angles.



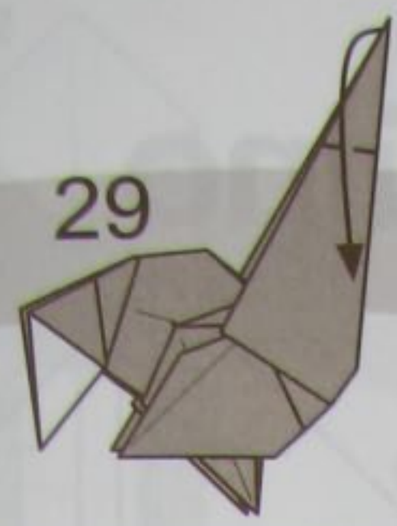

Fold along existing creases.

Pull the corner out.
Repeat behind.

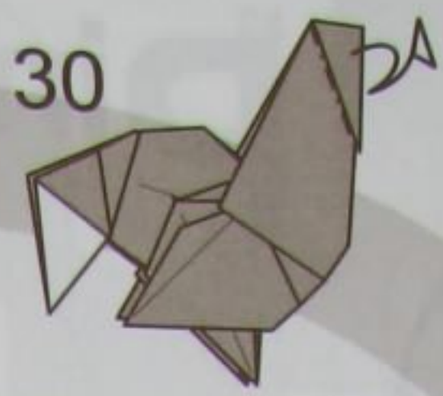
Push the top edge and the right using existing creases.



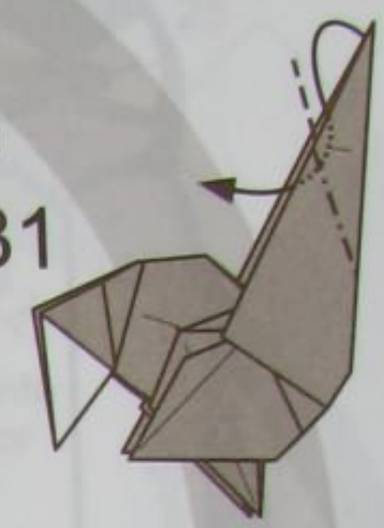

Crimp outside.




Fold the corner down. There is no reference point.

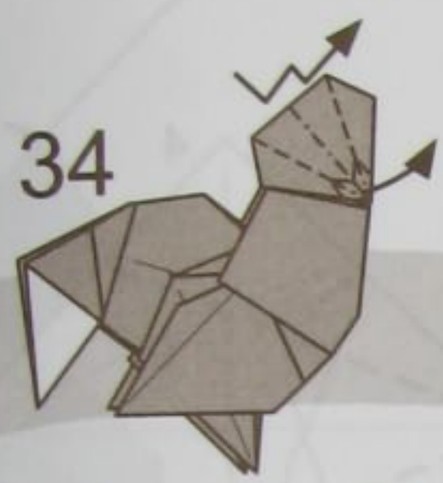



Fold and unfold. Open to step 29.



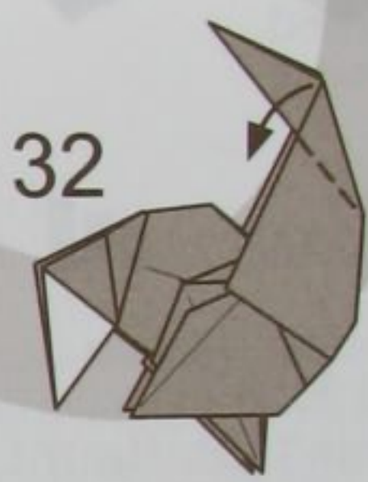

Inside reverse fold.

Crimp.



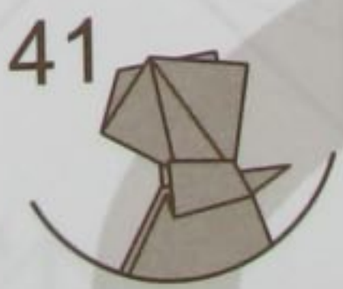

Fold the corner out.

Open.



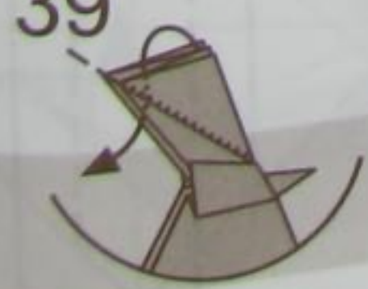

Fold the corner down.

Pleat fold. Repeat behind.



Mountain fold. Repeat behind.

Pleat fold. Repeat behind.

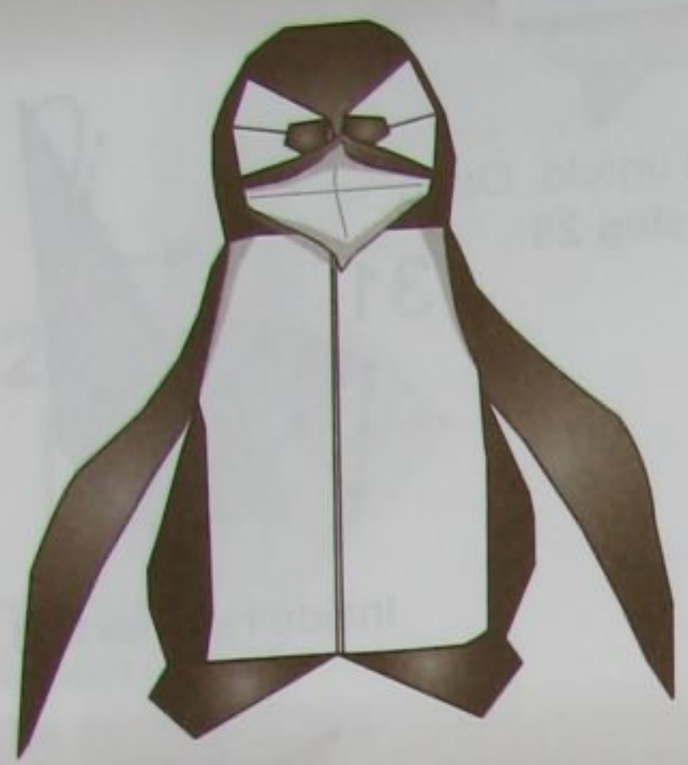



Inside reverse fold the middle flap.

Swivel the flaps a little bit.

Model finished.

# Pingüino



DIFICULTAD:

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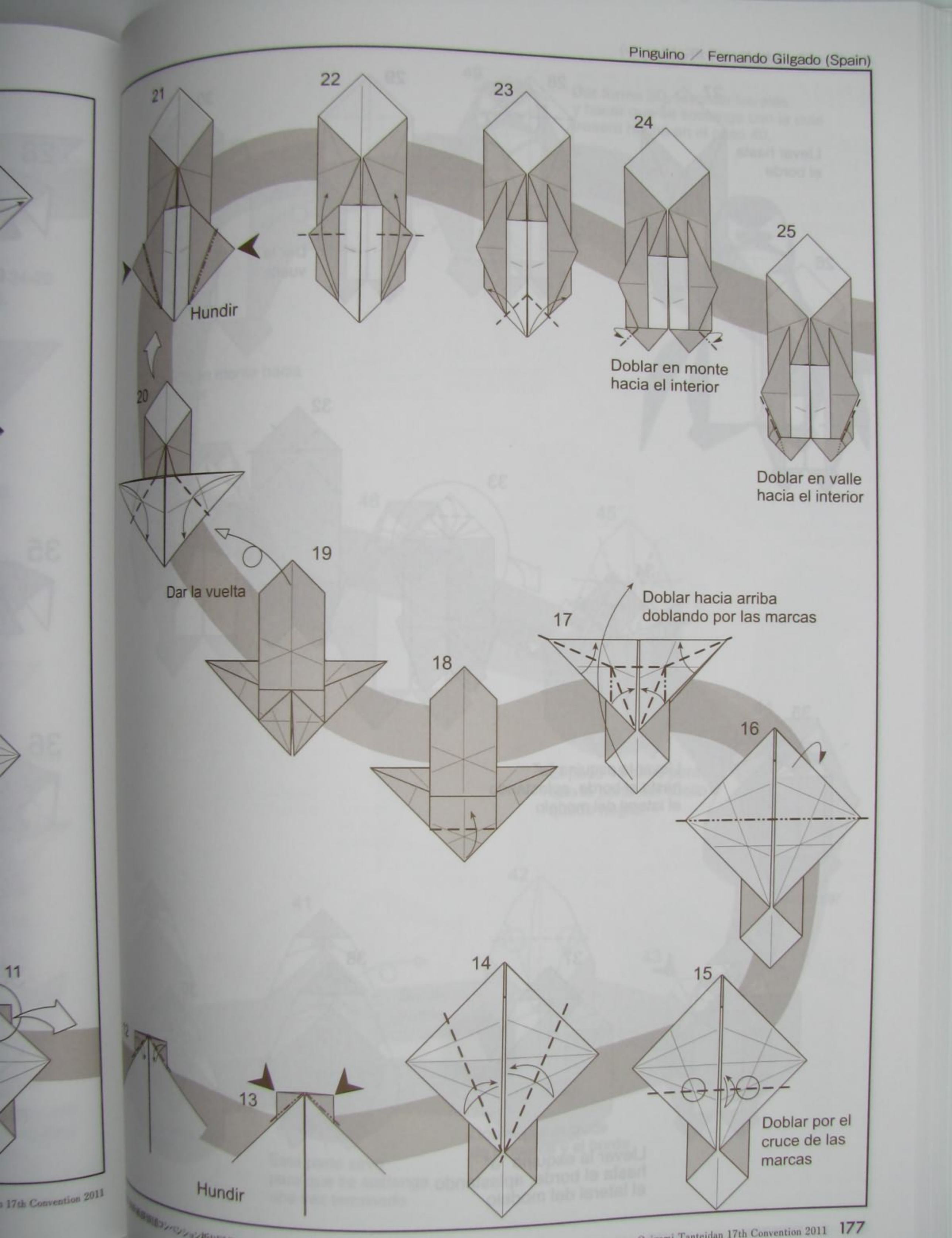
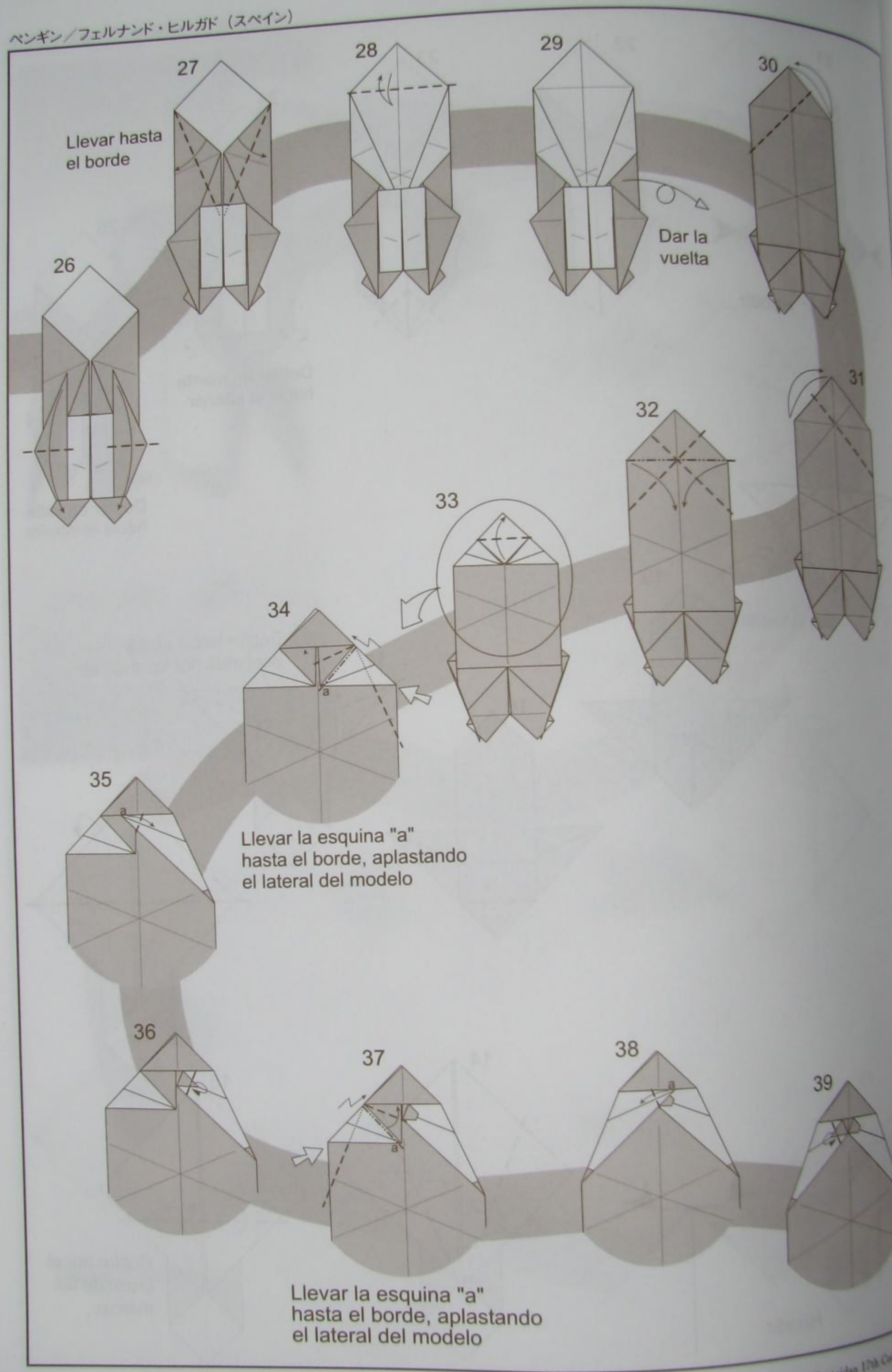
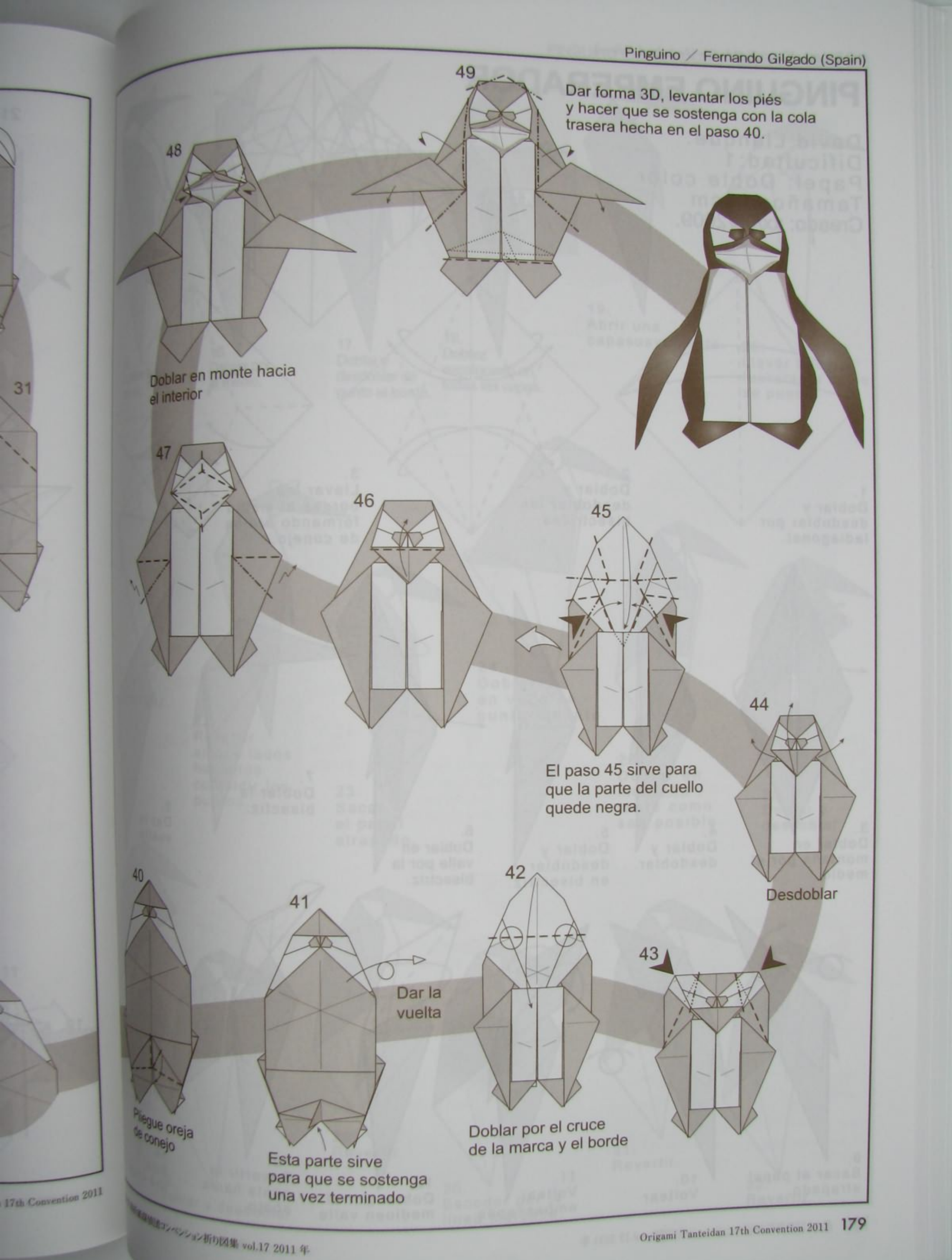
elfernan3@hotmail.com
gilgado.pajarita.org

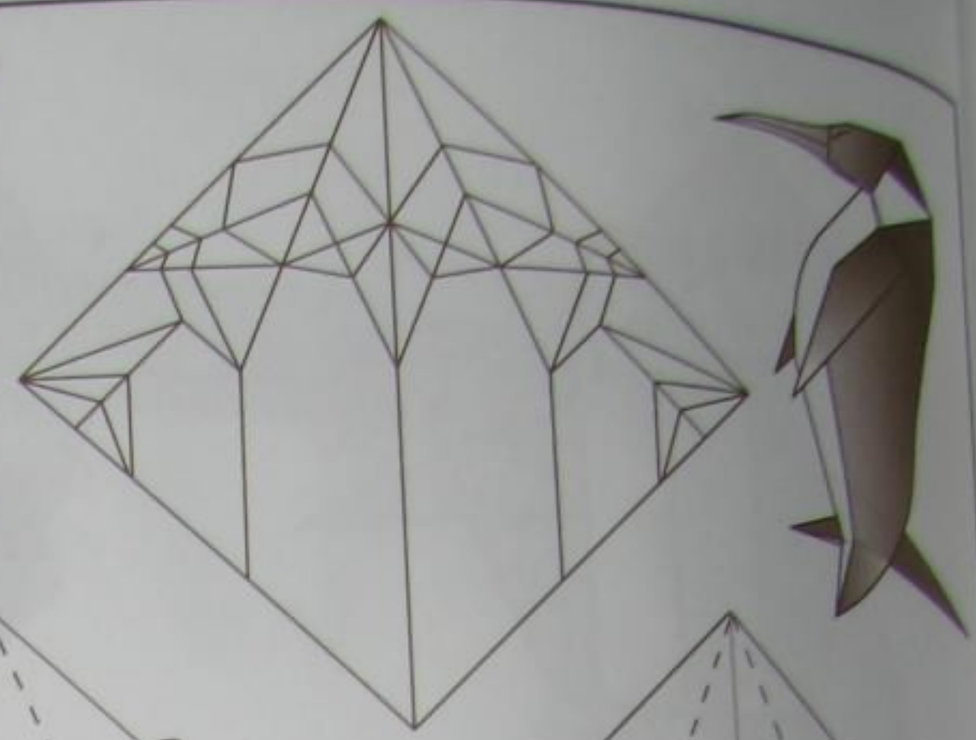

21
Hundir
22
23
24
Doblar en monte
hacia el interior
25
Doblar en valle
hacia el interior
20
Dar la vuelta
19
18
17
Doblar hacia arriba
doblando por las marcas
16
14
15
Doblar por el
cruce de las
marcas
13
Hundir

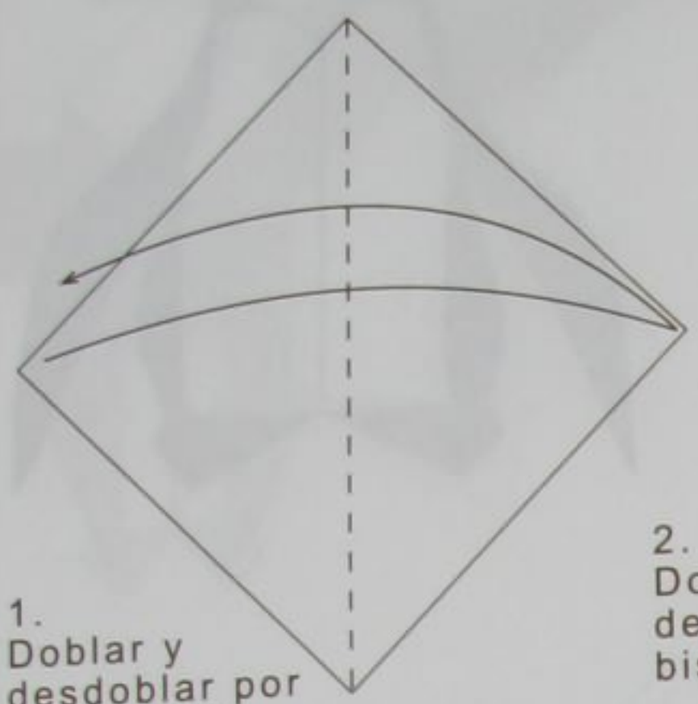

26
27
Llevar hasta
el borde
28
29
Dar la
vuelta
30
31
32
33
34
a
35
a
Llevar la esquina "a"
hasta el borde, aplastando
el lateral del modelo
36
37
a
38
a
39
Llevar la esquina "a"
hasta el borde, aplastando
el lateral del modelo


49
Dar forma 3D, levantar los piés y hacer que se sostenga con la cola trasera hecha en el paso 40.
48
Doblar en monte hacia el interior
47
46
45
El paso 45 sirve para que la parte del cuello quede negra.
44
Desdoblar
40
41
42
43
Dar la vuelta
Pliegue oreja de conejo
Esta parte sirve para que se sostenga una vez terminado
Doblar por el cruce de la marca y el borde

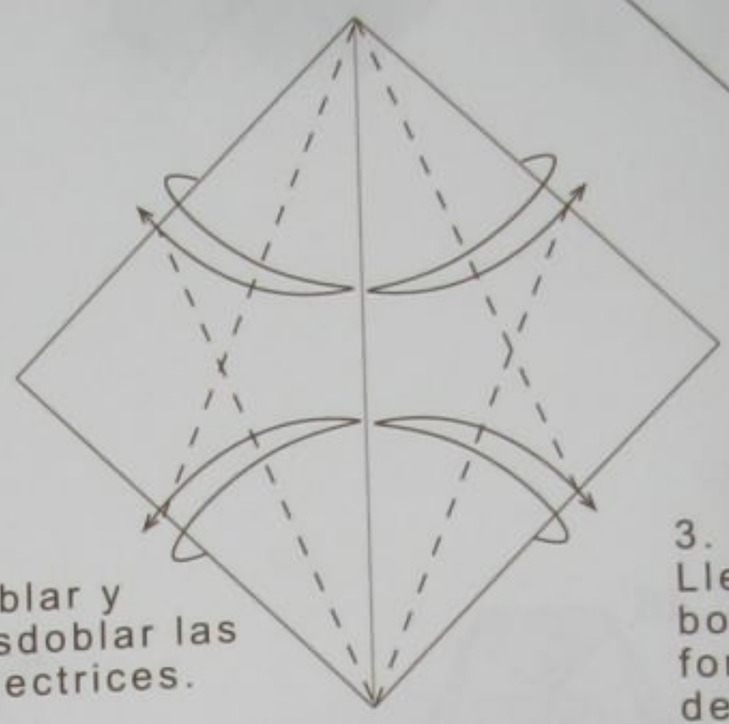
# PINGUINO EMPERADOR

David Llanque.
Dificultad:1
Papel: Doble color
Tamaño: 15cm
Creado: xx/08/2009.

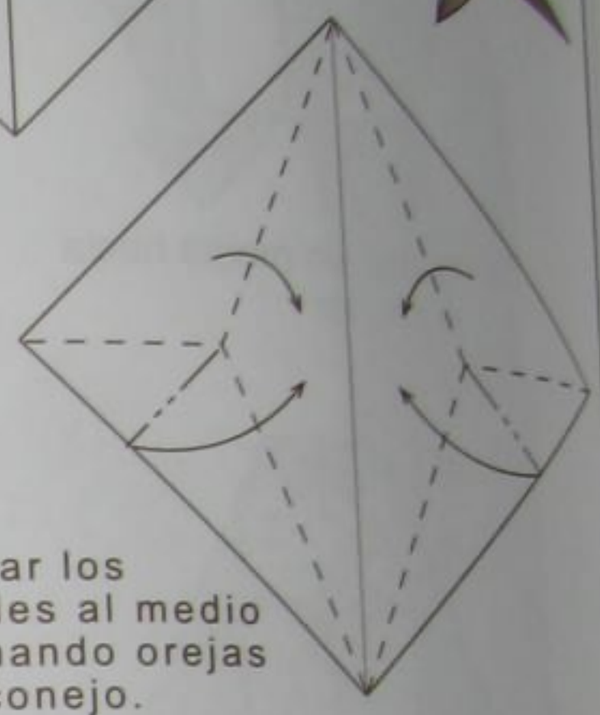




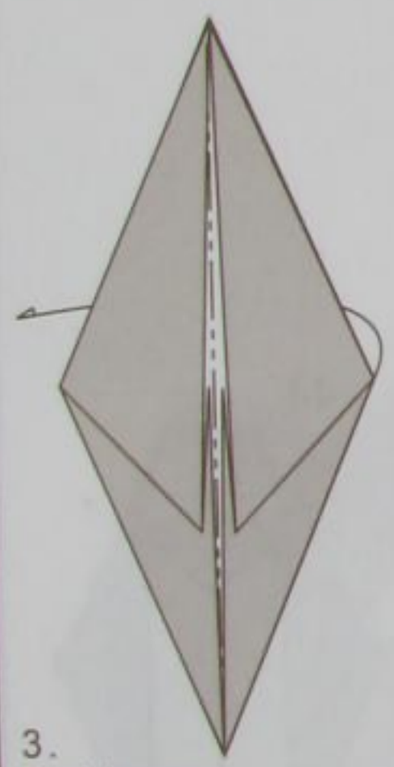
1.
Doblar y desdoblar por ladiagonal.



2.
Doblar y desdoblar las bisectrices.



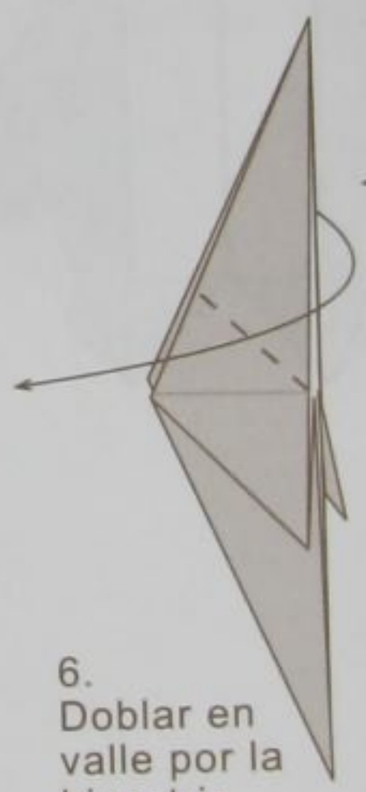
3.
Llevar los bordes al medio formando orejas de conejo.



3.
Doblar en montaña por el medio.

4.
Doblar y desdoblar.

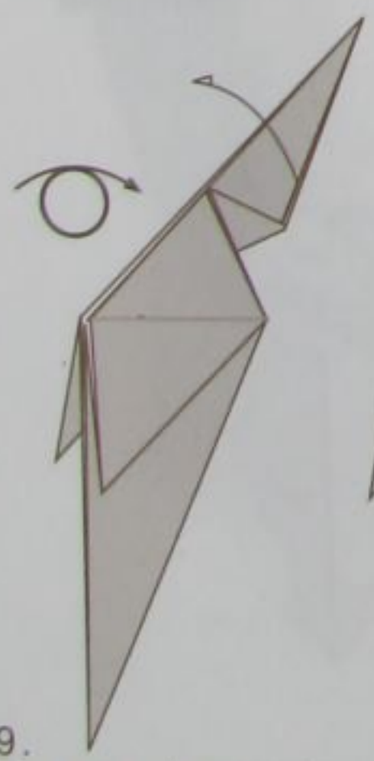
5.
Doblar y desdoblar en bisectriz.



6.
Doblar en valle por la bisectriz.

7.
Doblar la bisectiz.

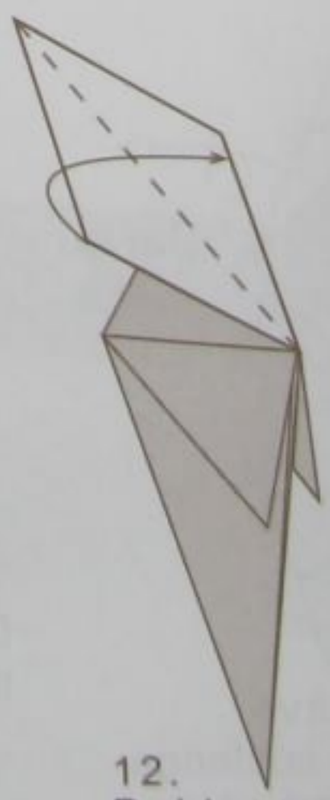
8.
Dar la vuelta.



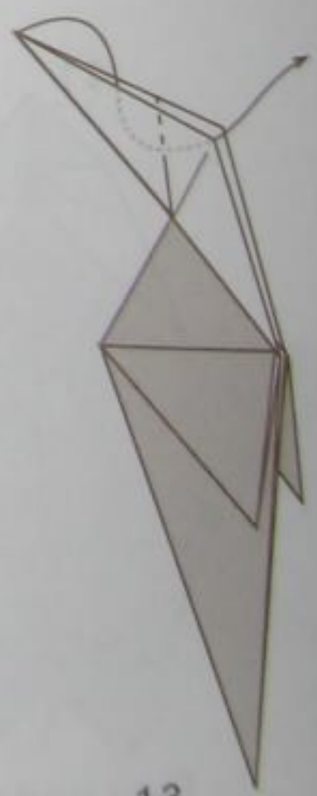
9.
Sacar el papel atrapado.

10.
Voltear

11.
Voltear ambascapas

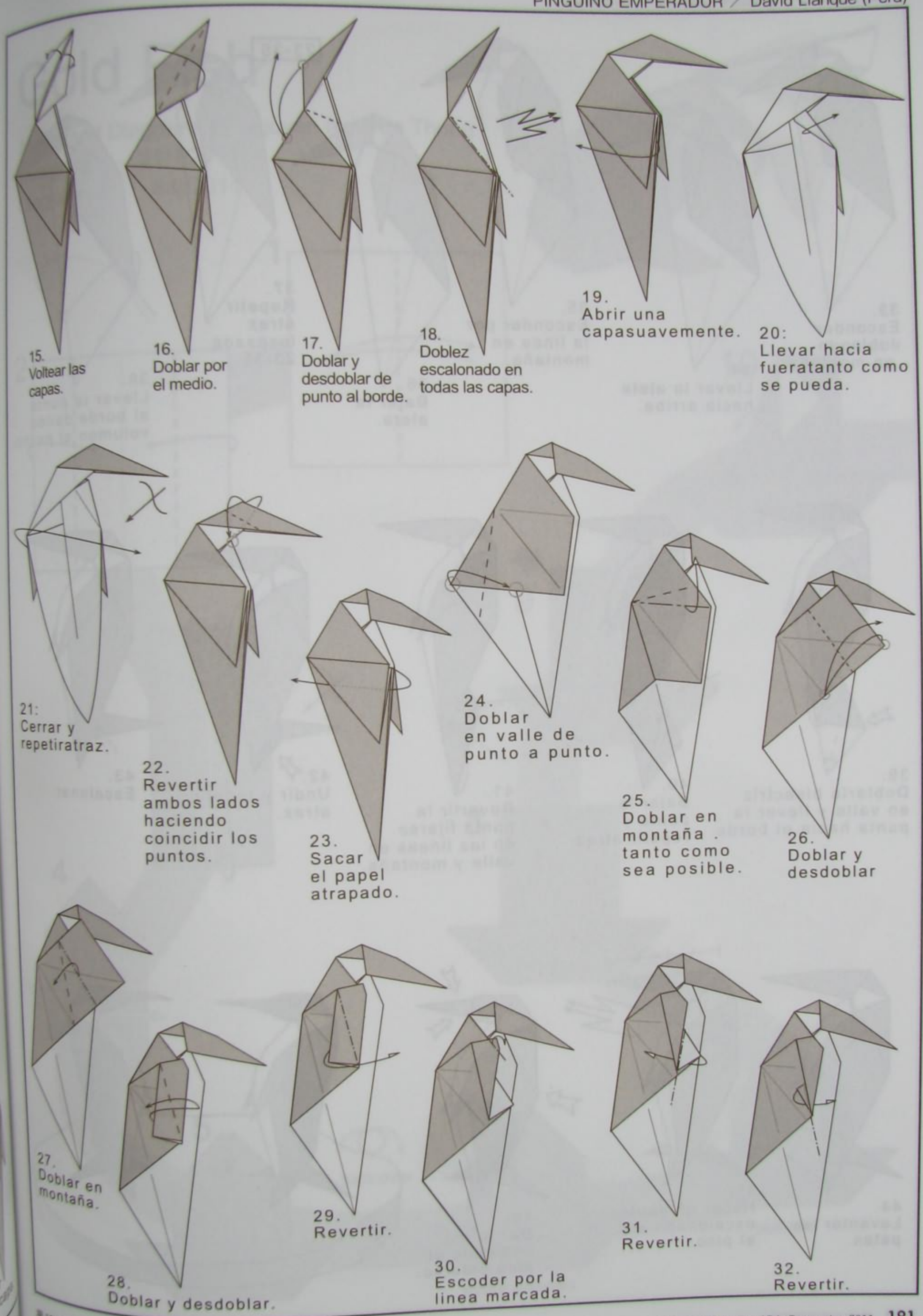


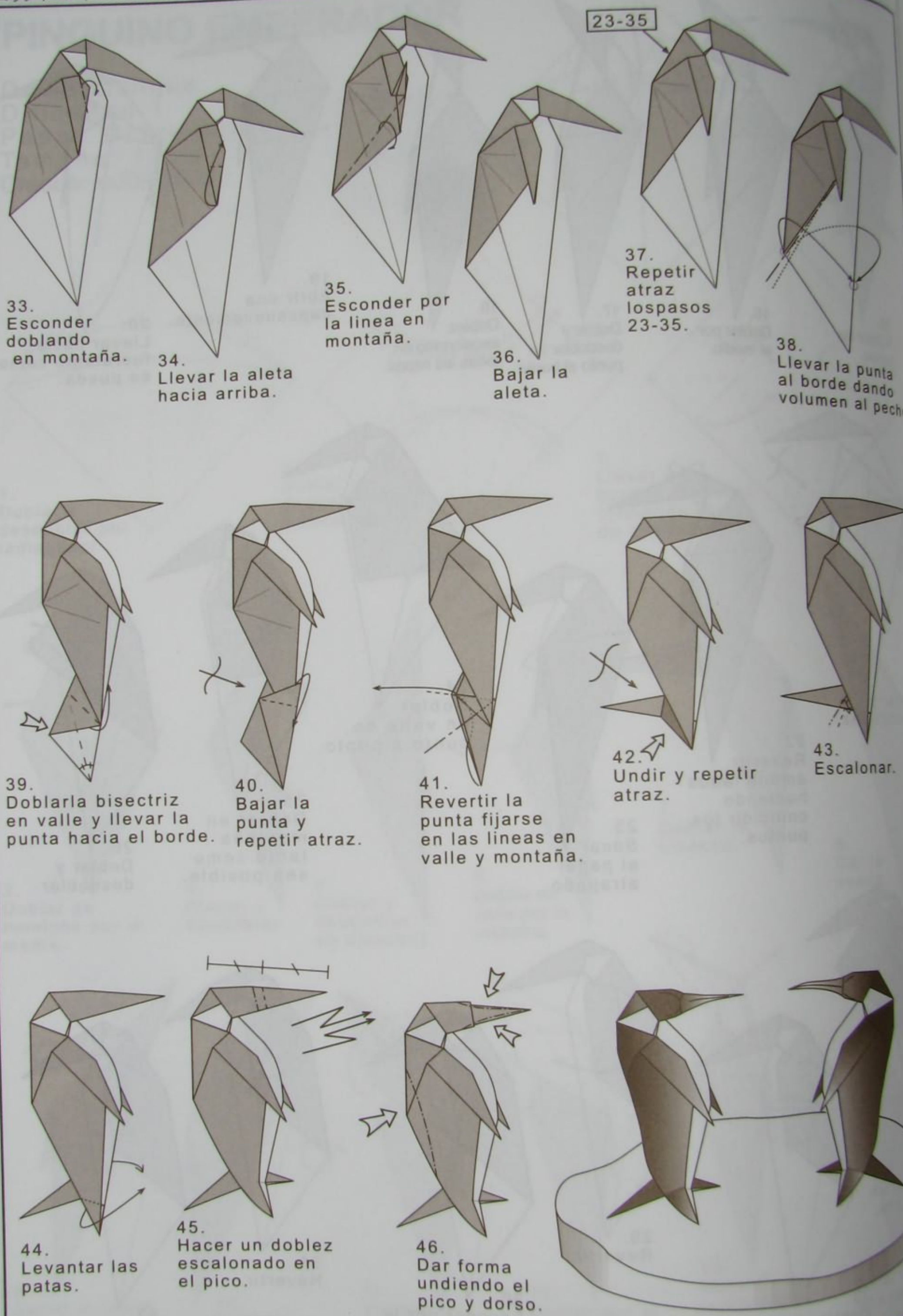
12.
Doblar por el medioen valle.



13.
Revertir la punta hacia abajo.

14.
Bajar una capa.


15.
Voltear las capas.
16.
Doblar por el medio.
17.
Doblar y desdoblar de punto al borde.
18.
Doblez escalonado en todas las capas.
19.
Abrir una capasuavemente.
20:
Llevar hacia fueratanto como se pueda.
21:
Cerrar y repetiratraz.
22.
Revertir ambos lados haciendo coincidir los puntos.
23.
Sacar el papel atrapado.
24.
Doblar en valle de punto a punto.
25.
Doblar en montaña . tanto como sea posible.
26.
Doblar y desdoblar
27.
Doblar en montaña.
28.
Doblar y desdoblar.
29.
Revertir.
30.
Escoder por la linea marcada.
31.
Revertir.
32.
Revertir.




33. Esconder doblando en montaña.

34. Llevar la aleta hacia arriba.

35. Esconder por la linea en montaña.

36. Bajar la aleta.

37. Repetir atraz lospasos 23-35.

38. Llevar la punta al borde dando volumen al pecho.

39. Doblarla bisectriz en valle y llevar la punta hacia el borde.

40. Bajar la punta y repetir atraz.

41. Revertir la punta fijarse en las lineas en valle y montaña.

42. Undir y repetir atraz.

43. Escalonar.

44. Levantar las patas.

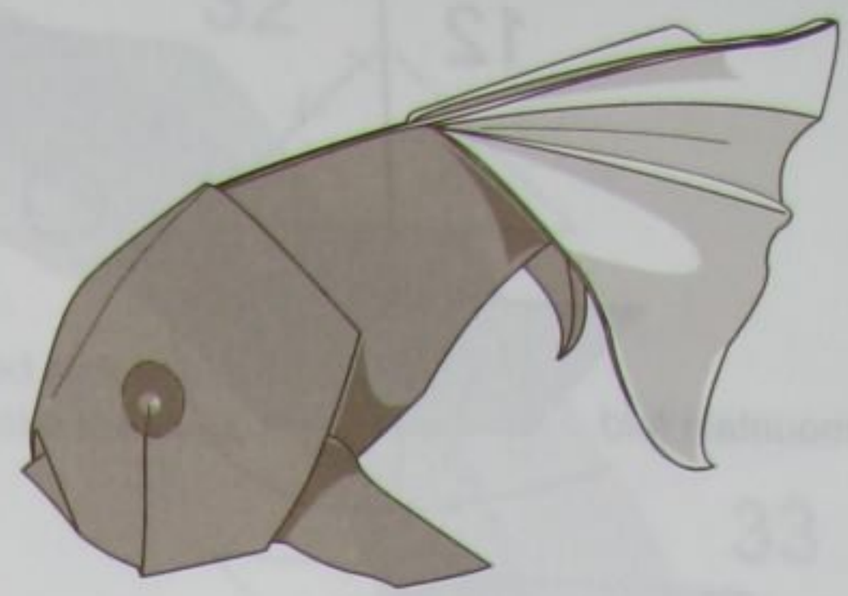
45. Hacer un doblez escalonado en el pico.

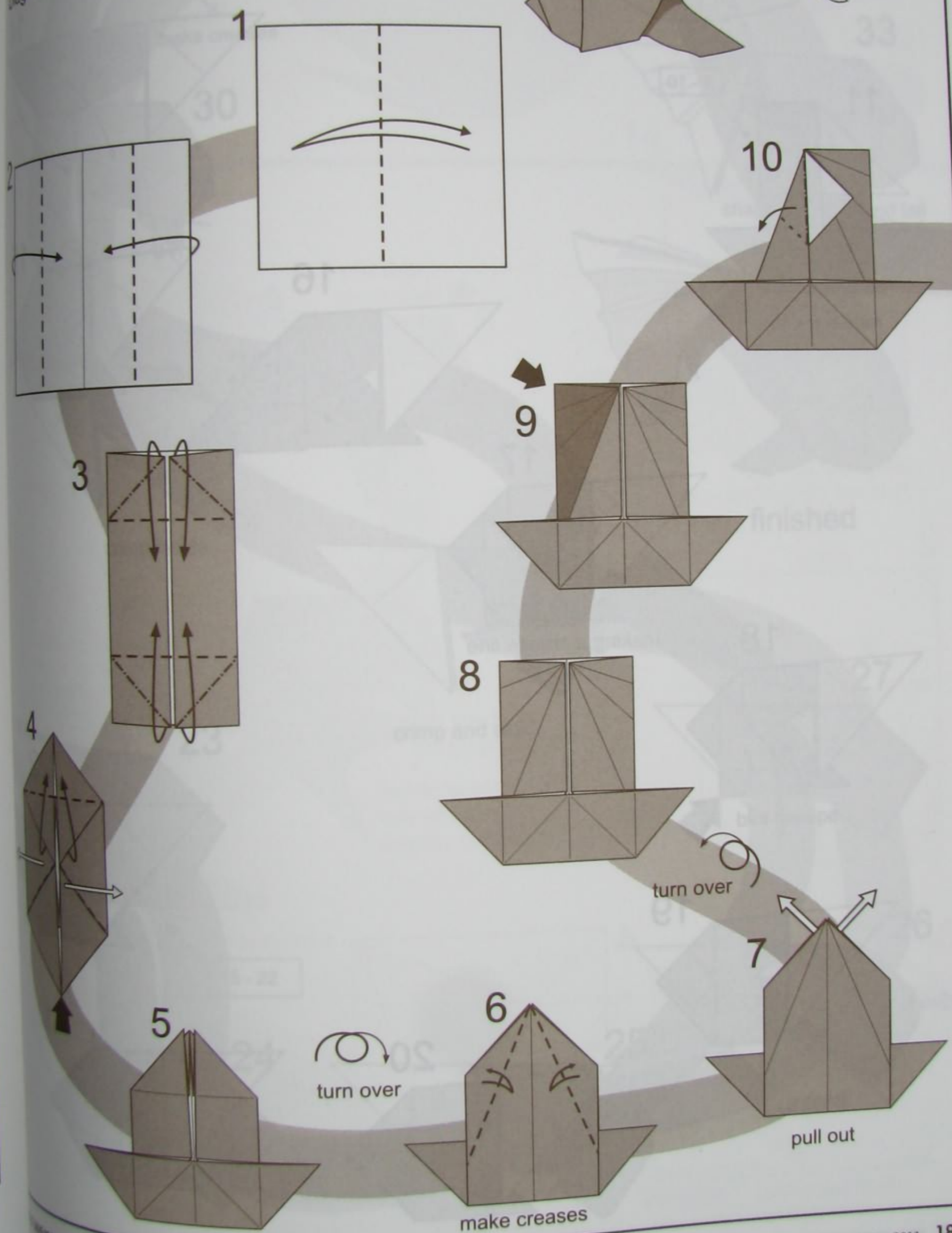
46. Dar forma undiendo el pico y dorso.

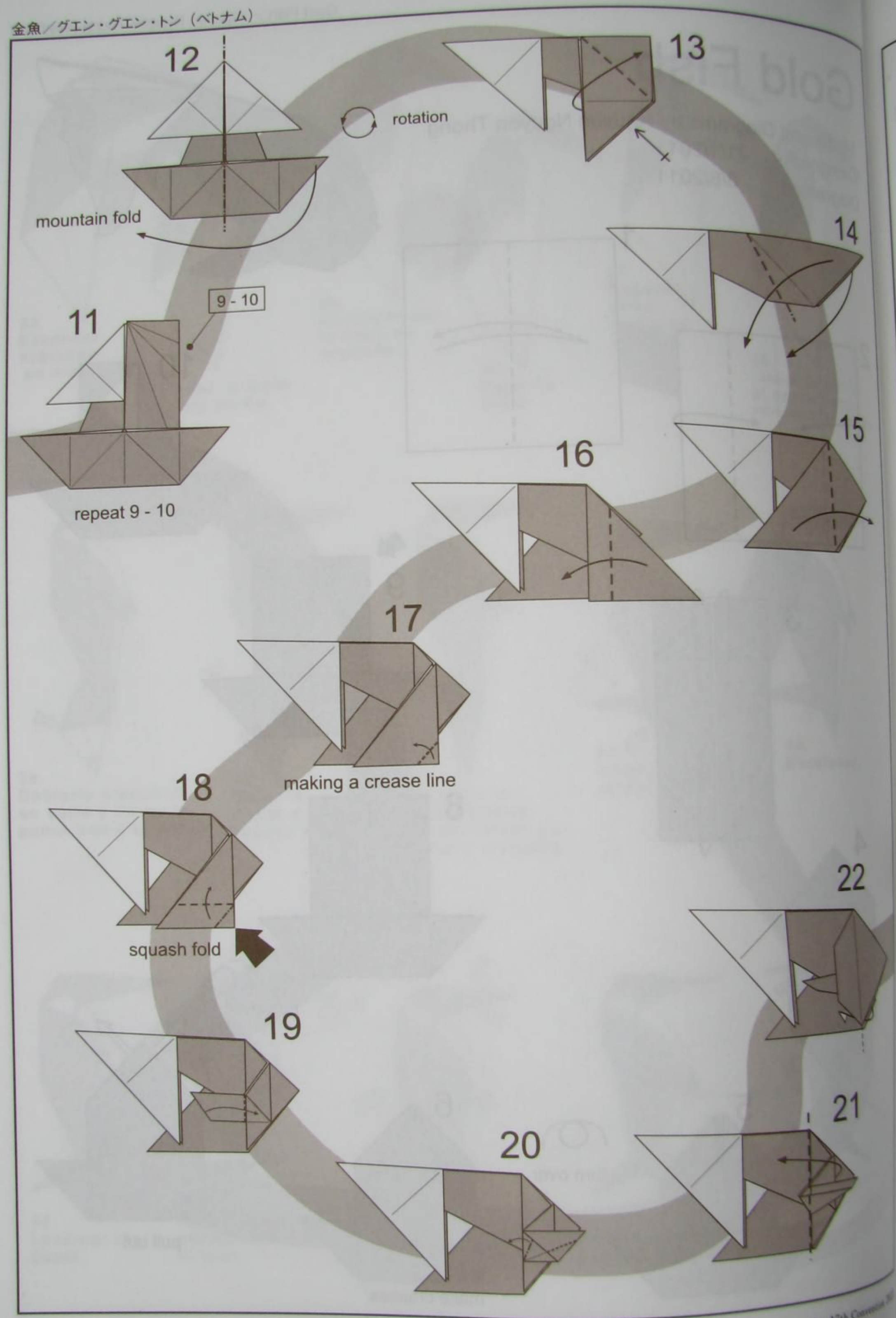
# Gold Fish

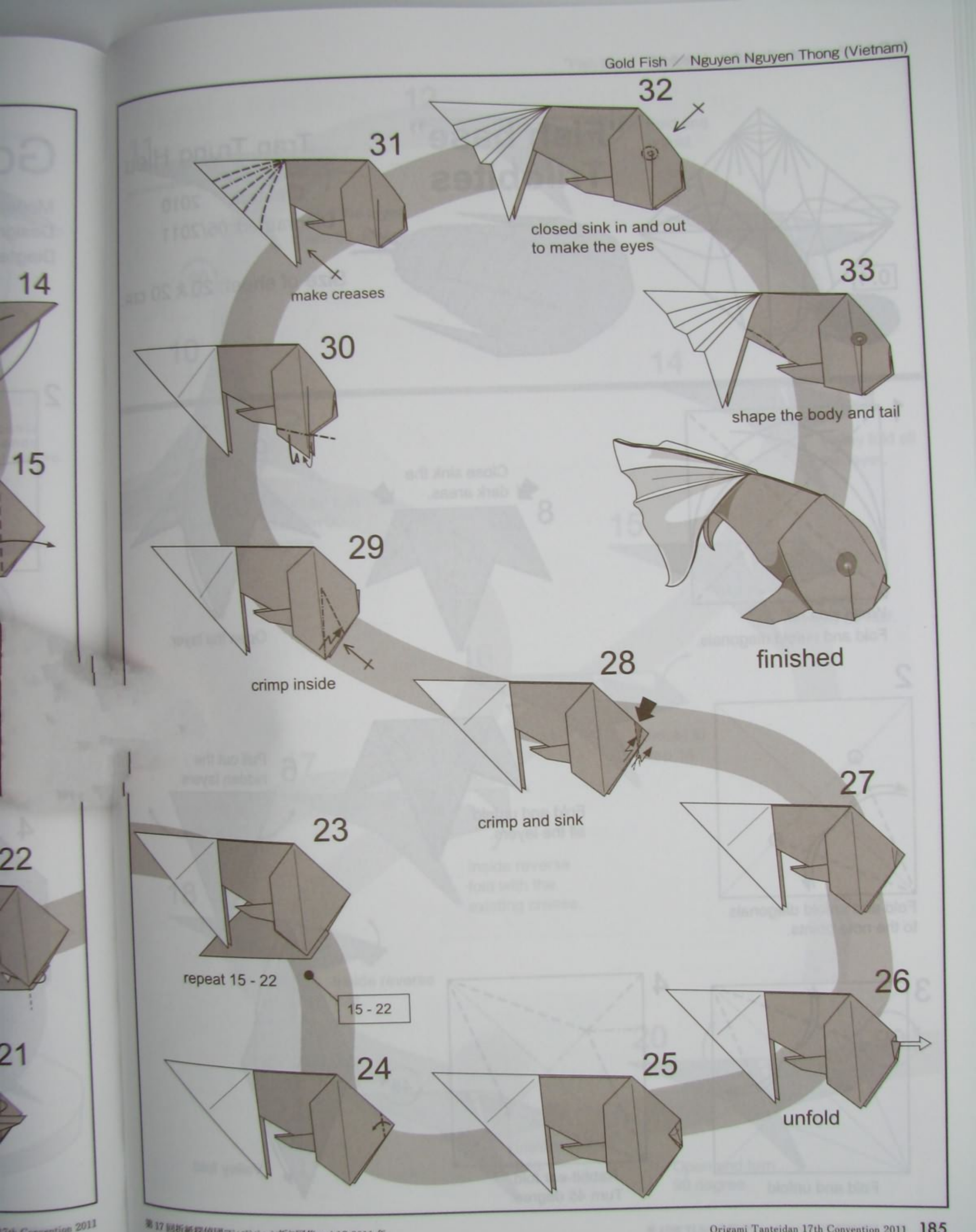
Model and Diagrams by Nguyen Nguyen Thong

Designed: 21/1/2011
Diagramed: 8/6/2011






12
rotation
13
mountain fold
14
9 - 10
11
15
16
repeat 9 - 10
17
making a crease line
18
squash fold
22
19
21
20

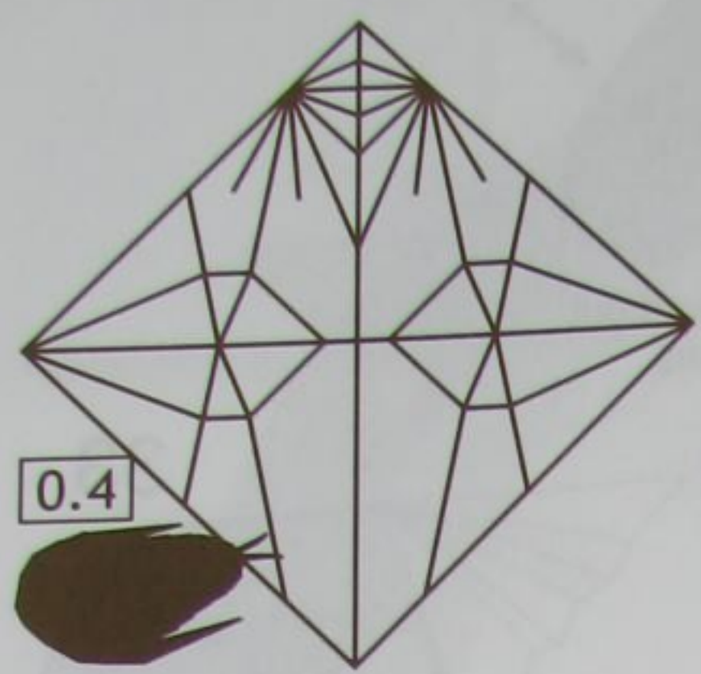

14
15
22
21
31
make creases
32
closed sink in and out
to make the eyes
33
shape the body and tail
30
29
crimp inside
finished
28
crimp and sink
27
23
repeat 15 - 22
15 - 22
26
unfold
24
25

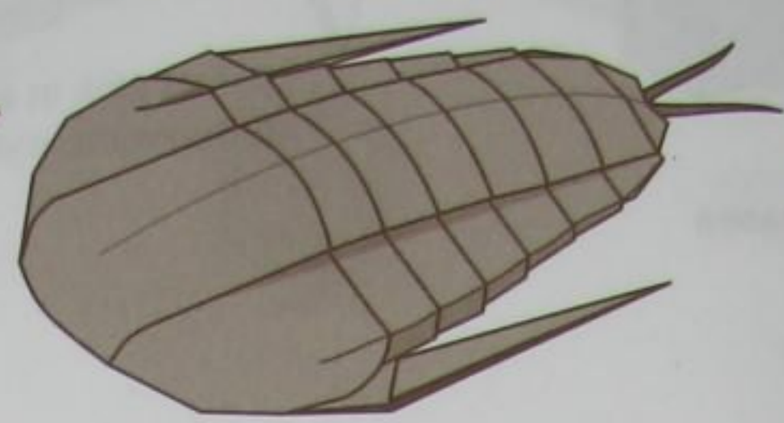
# "Fish base" Trilobites

Tran Trung Hieu

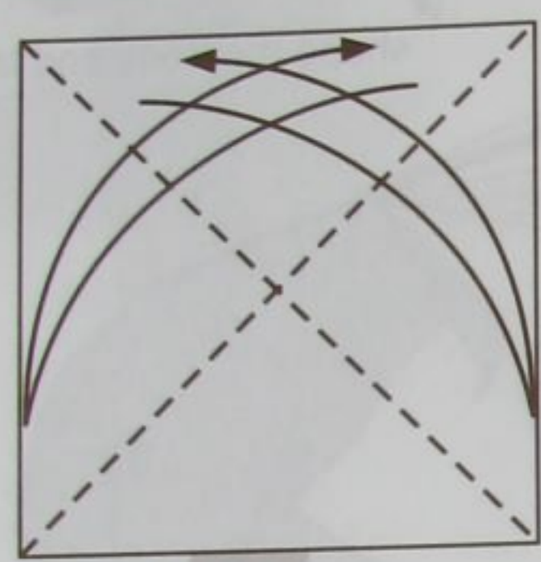
Created: 2010
Diagramed: 06/2011

Size of sheet: 20 x 20 cm.



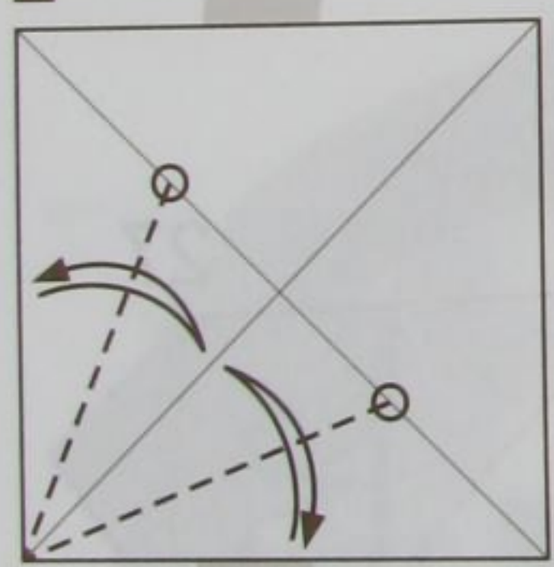



1



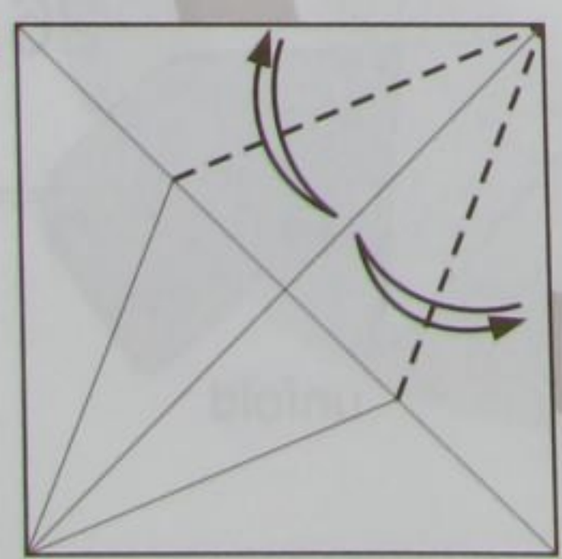
White side up.
Fold and unfold diagonals.

2



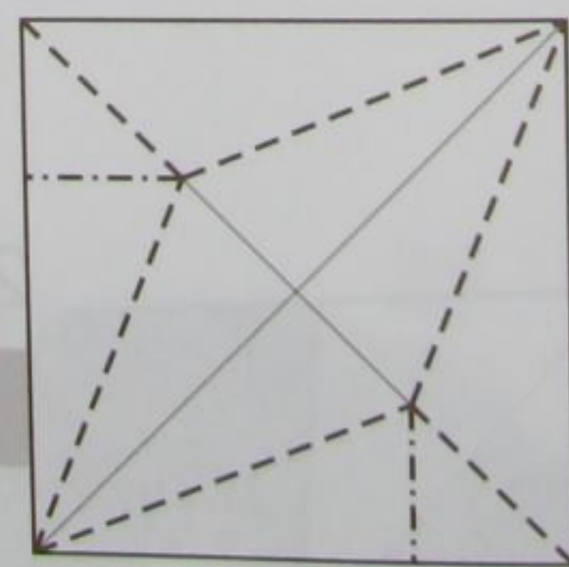
Fold and unfold diagonals
to the note points.

3



Fold and unfold

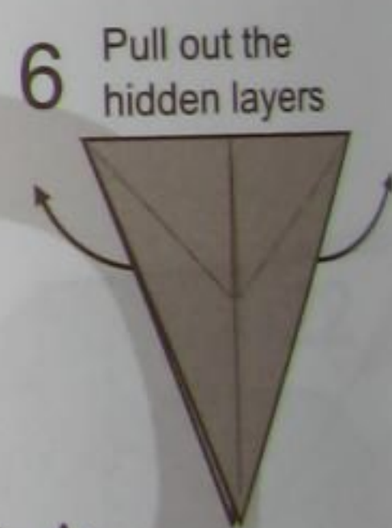
4



Rabbit-ear fold.
Turn 45 degree.

7

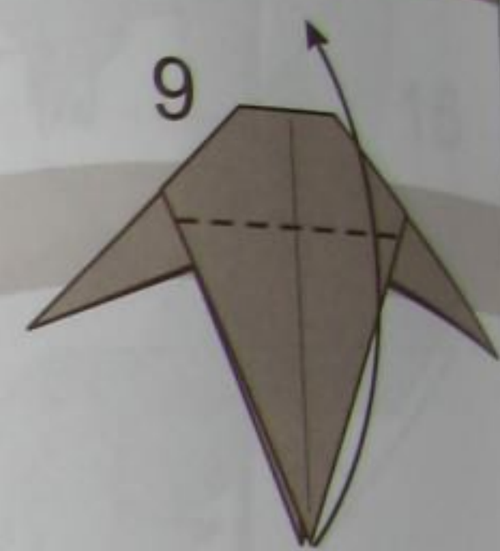
Fold and unfold
all the layers.



6 Pull out the
hidden layers

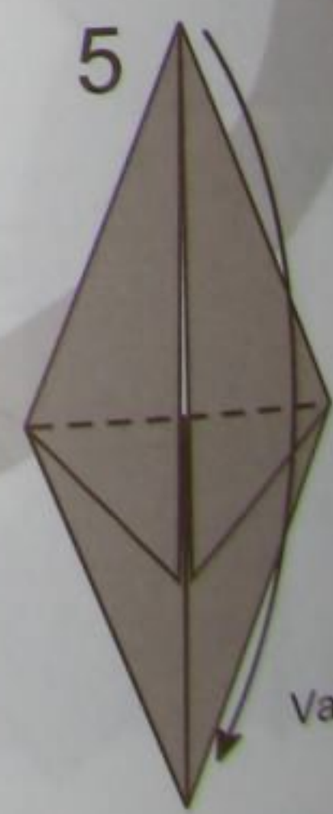
Close sink the
dark areas.

8



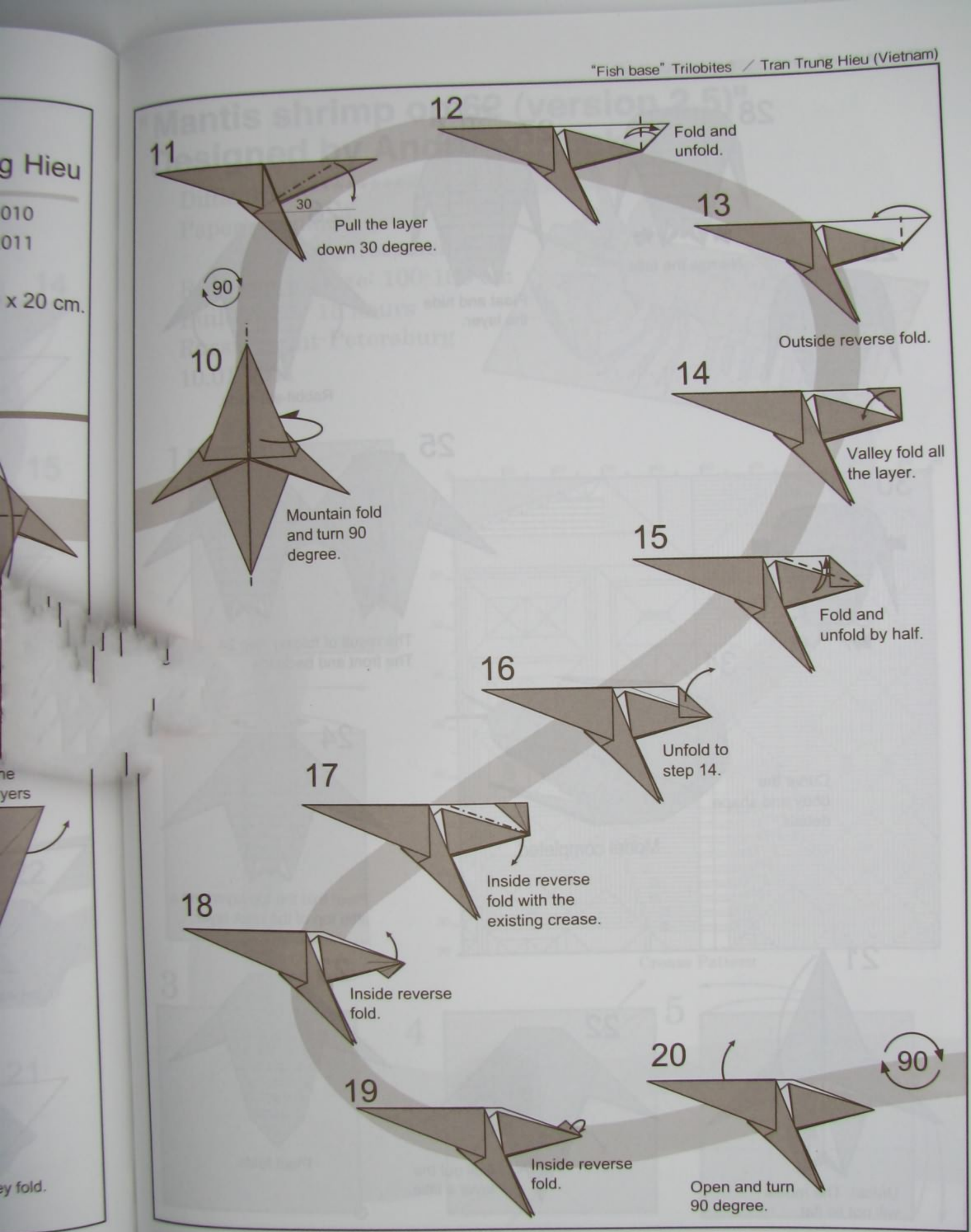
9

Open the layer.

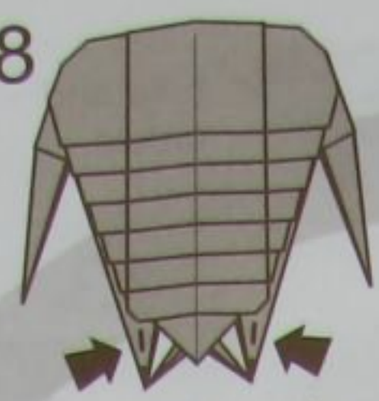



5

Valley fold.

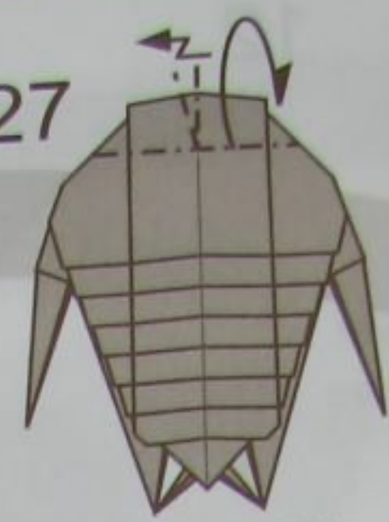

11
30
Pull the layer down 30 degree.
90
12
Fold and unfold.
13
Outside reverse fold.
10
Mountain fold and turn 90 degree.
14
Valley fold all the layer.
15
Fold and unfold by half.
16
Unfold to step 14.
17
Inside reverse fold with the existing crease.
18
Inside reverse fold.
19
Inside reverse fold.
20
Open and turn 90 degree.
90

28



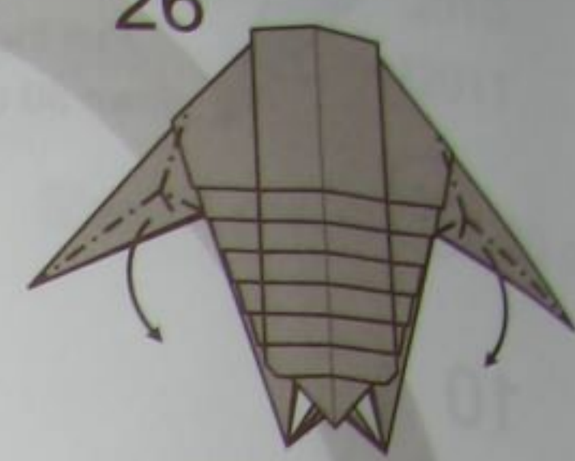
Narrow the tails.

27



Pleat and hide the layer.

26

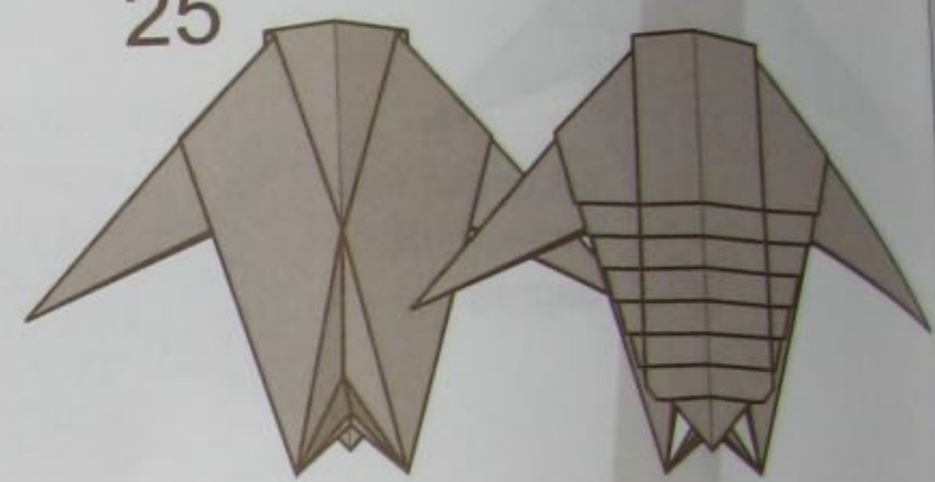


Rabbit-ear folds.

29

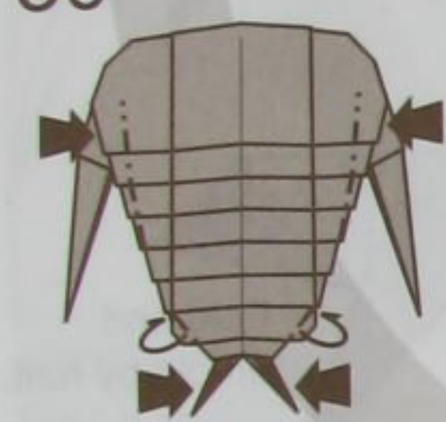
Hide inside.

25

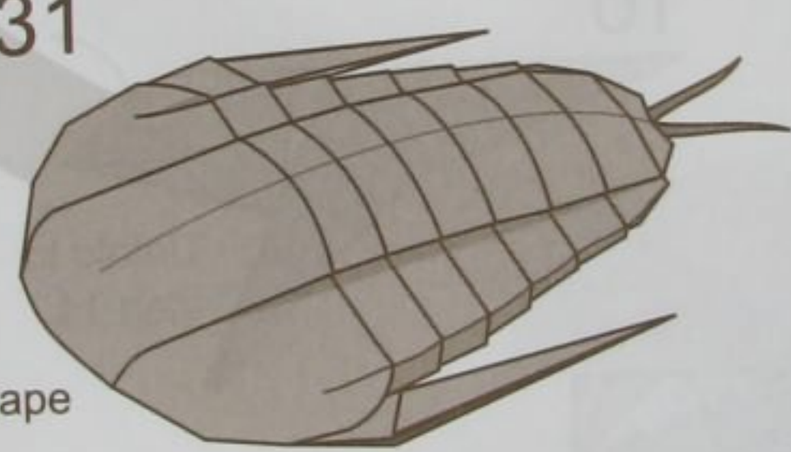


The result of folding step 24.
The front and backside

30



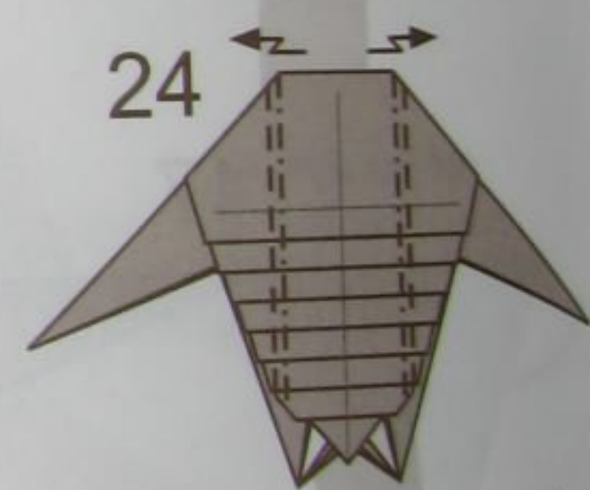
31



Curve the body and shape details.

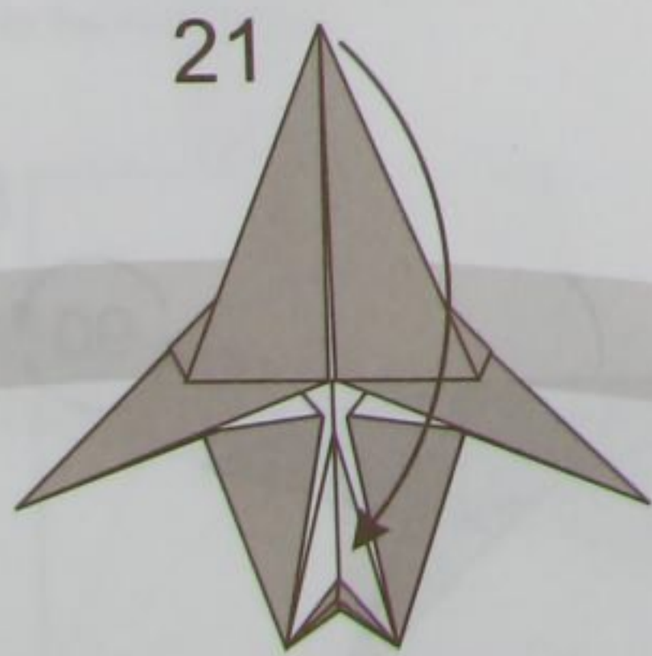
Model completed.

24



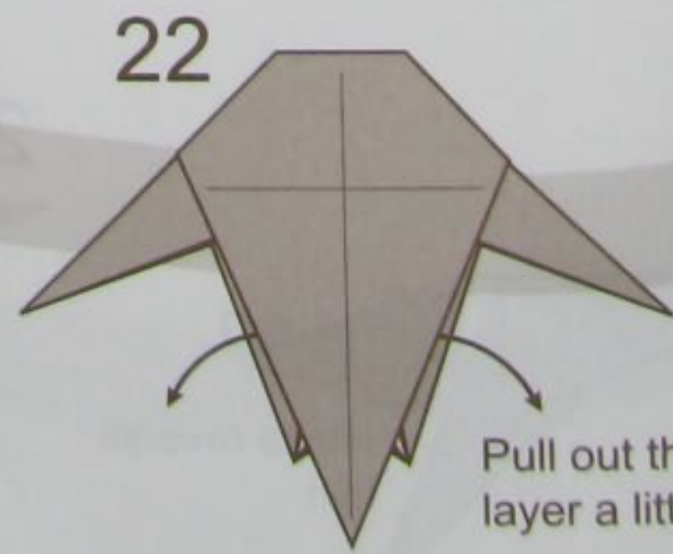
Pleat fold the top layer and a little top of the back layer.

21



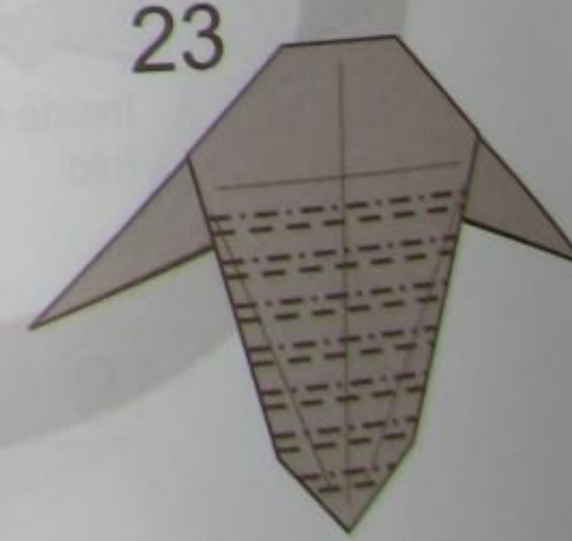
Unfold. The model will not lie flat.

22



Pull out the layer a little.

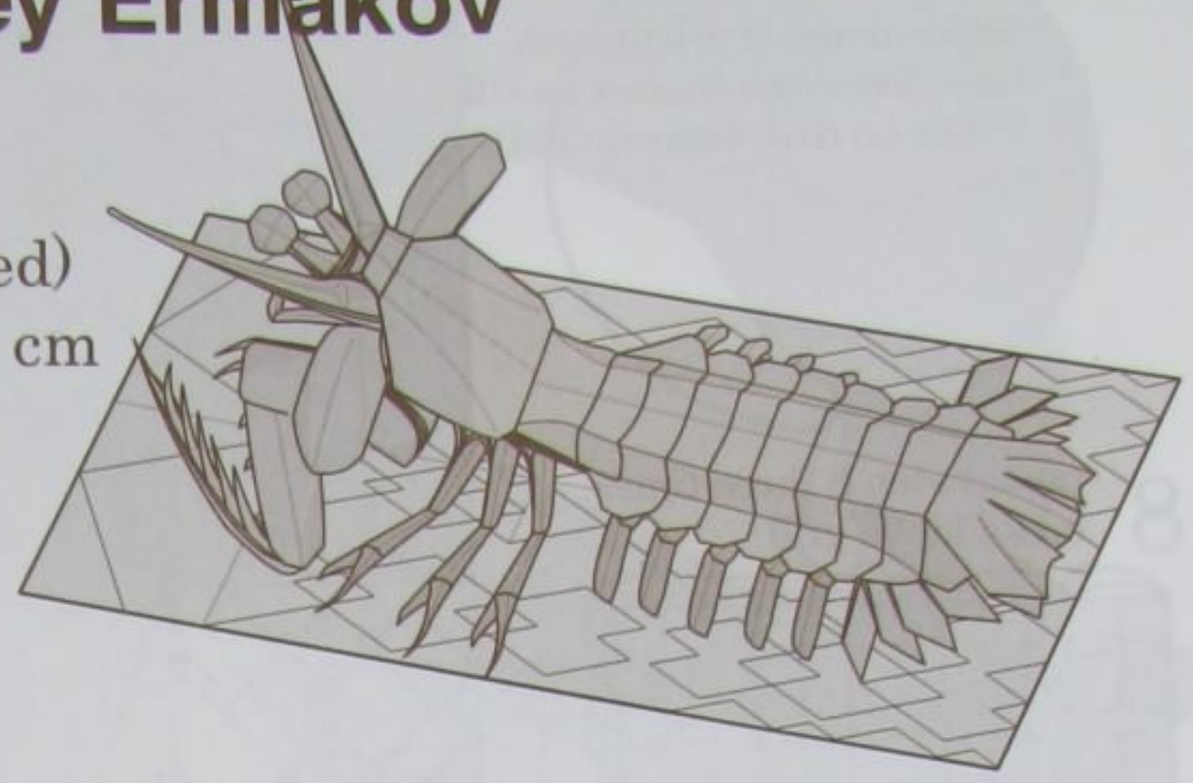
23



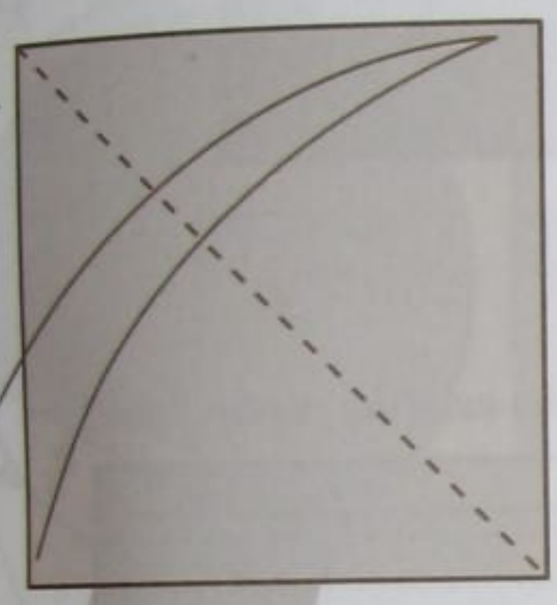
Pleat folds.

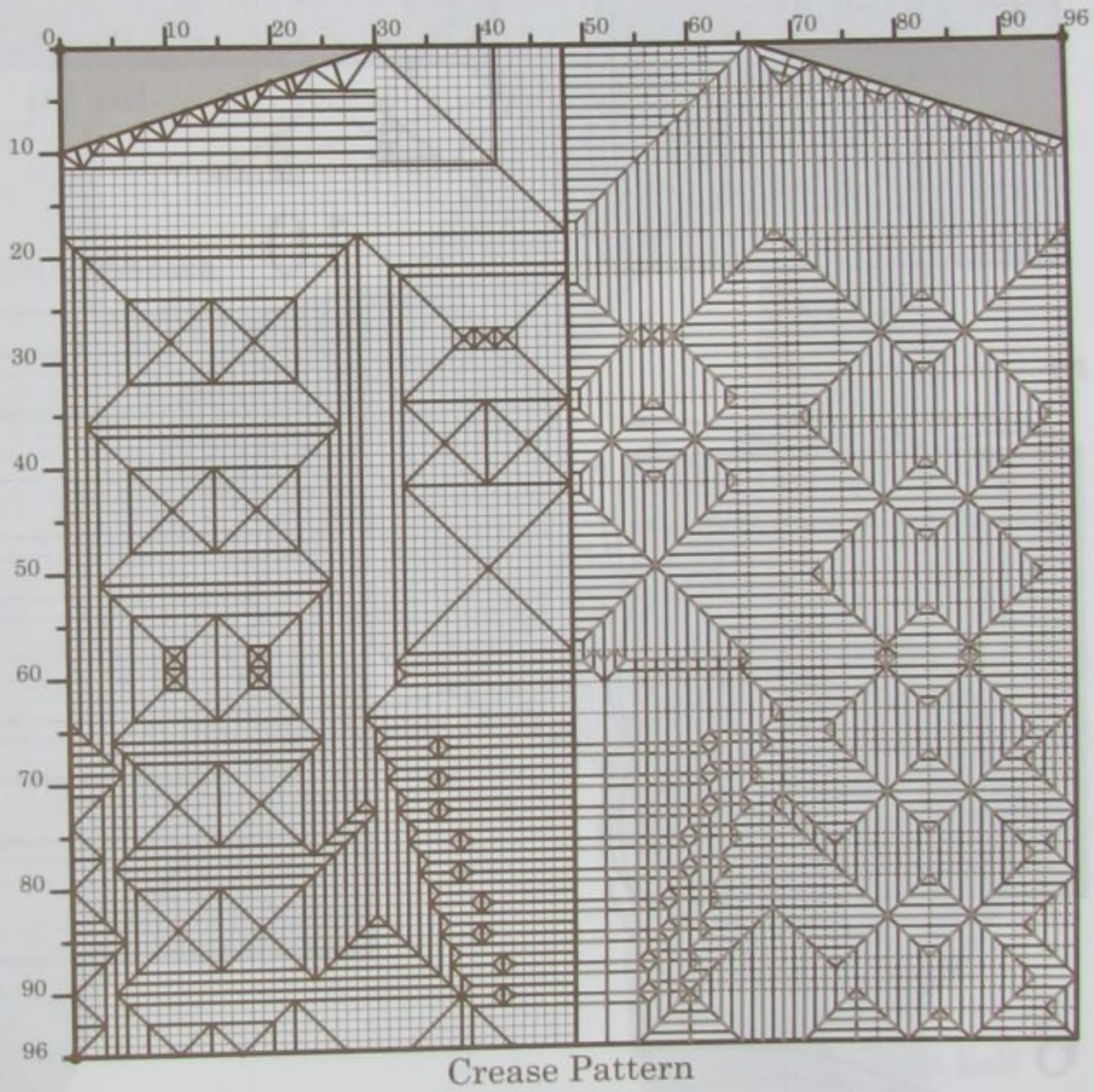
# "Mantis shrimp op.62 (version 2.5)" Designed by Andrey Ermakov

Difficulty: **********
Paper: standart
- tissue (recomended)
Recomended size: 100-100 cm
Build time: 15 hours
Russia/Saint-Petersburg
10.01.2011



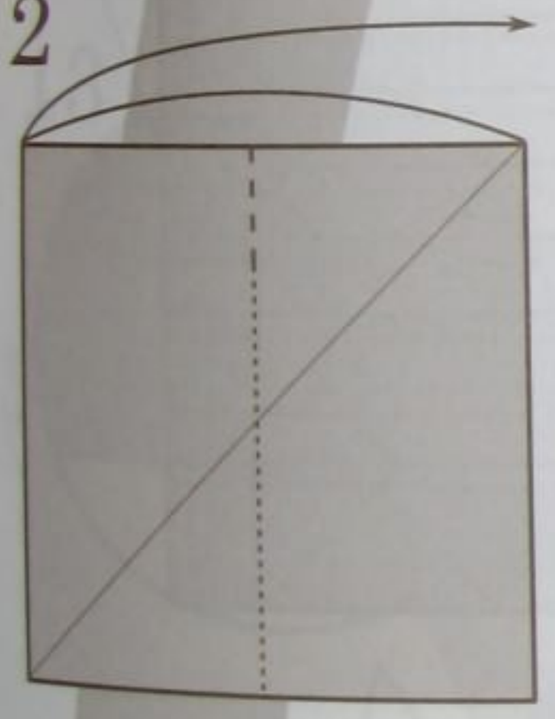
1





Crease Pattern

2



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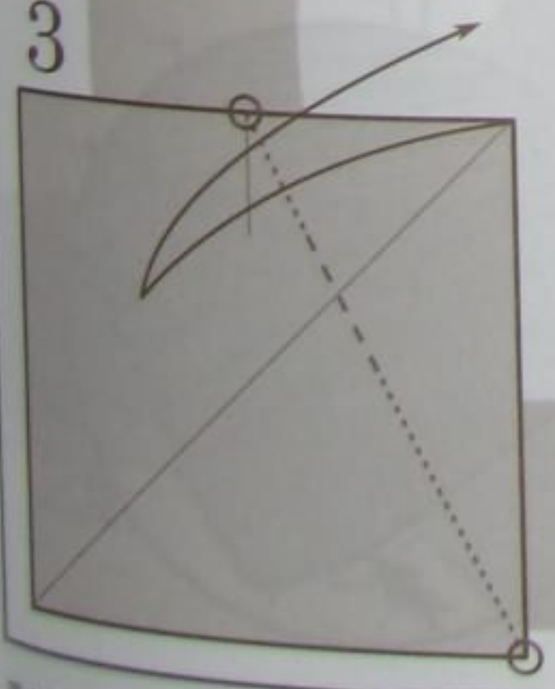

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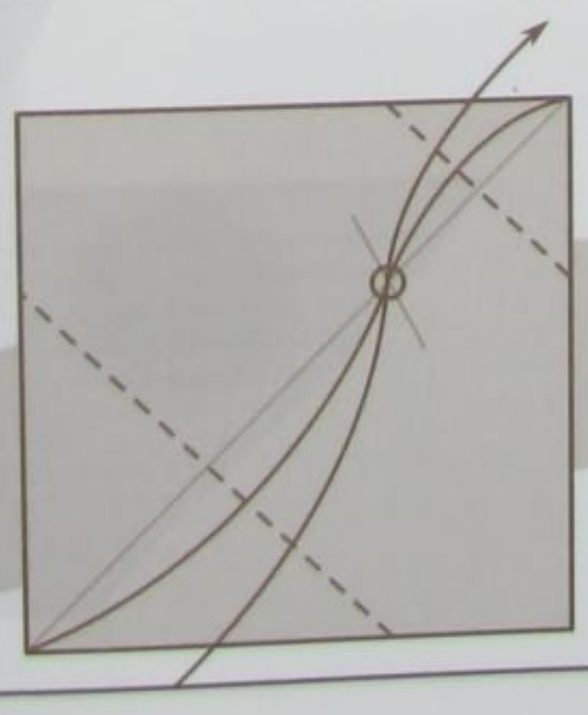

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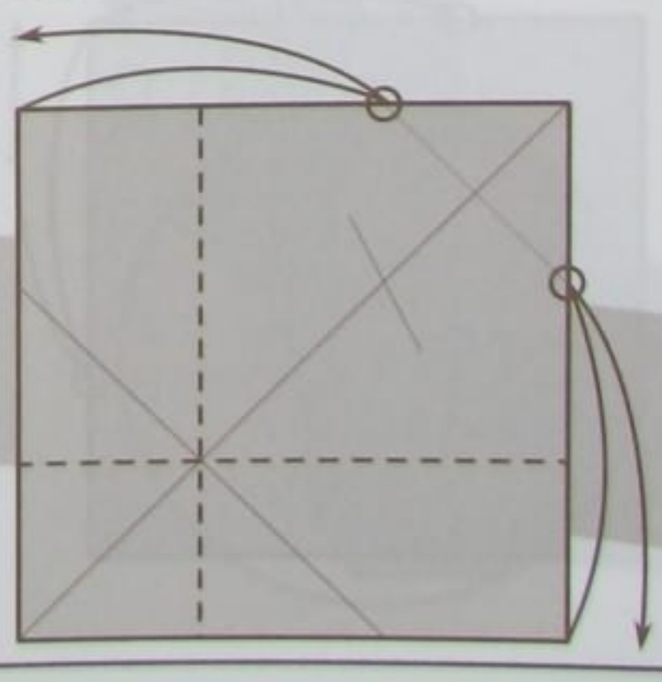
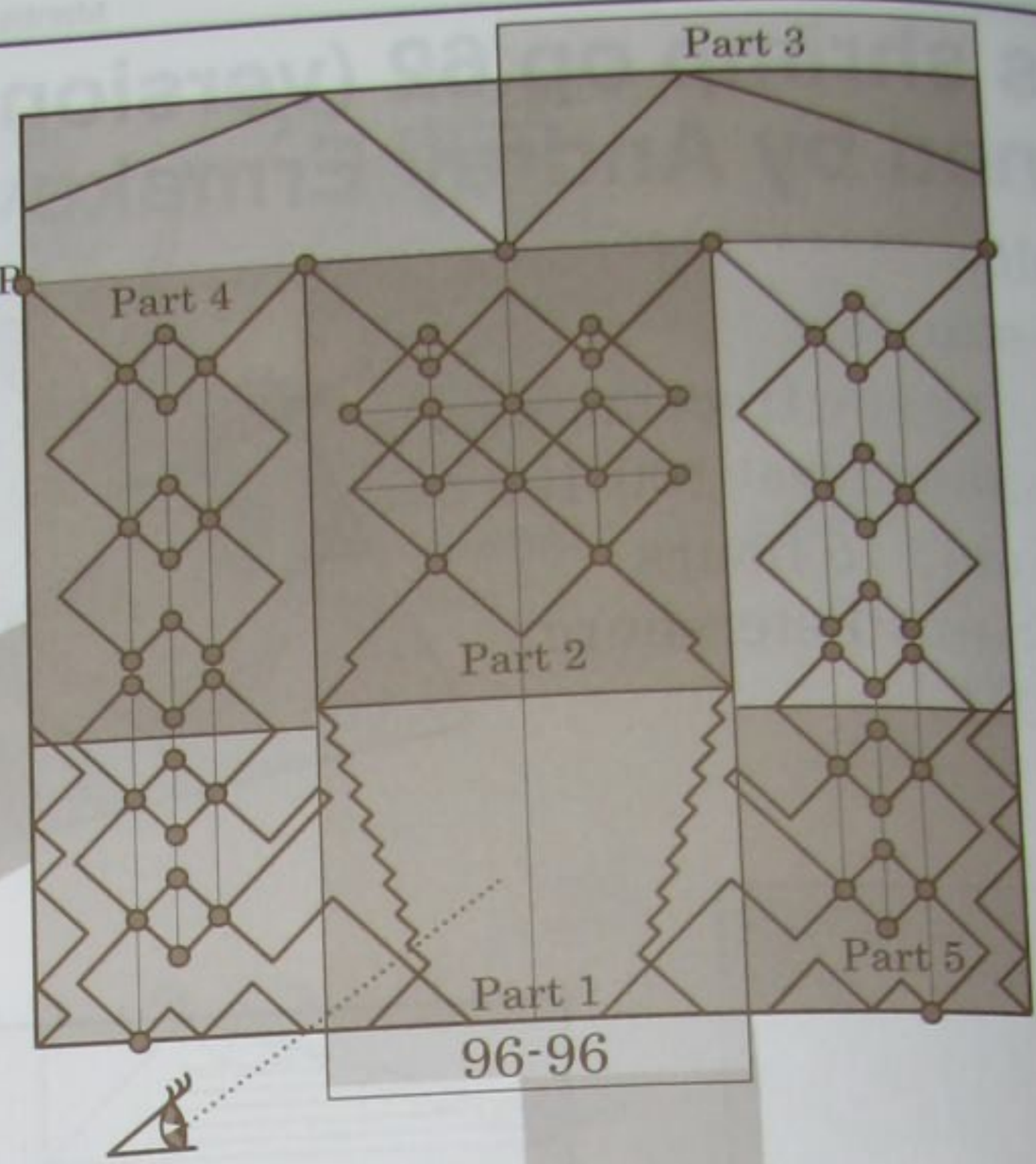
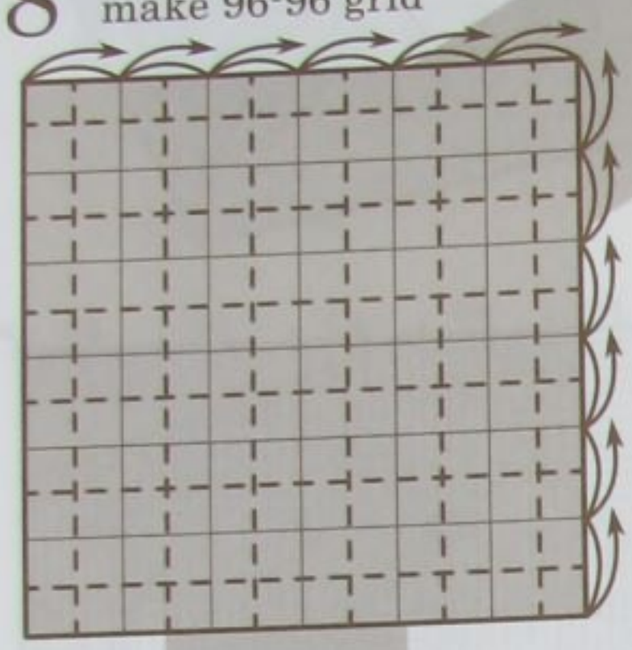


9

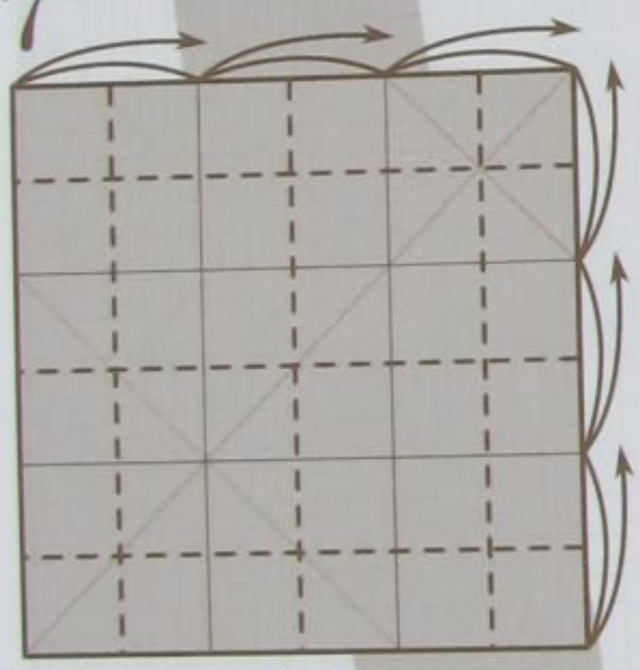
make shape of orientation lines from coordinates on CP (looks on first diagram list)




8 repeat step 8 three times, make 96-96 grid




7

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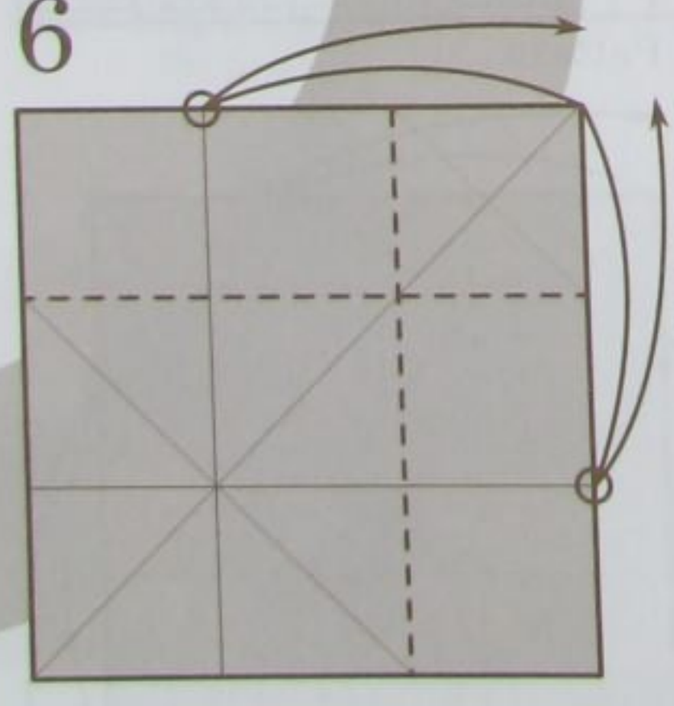
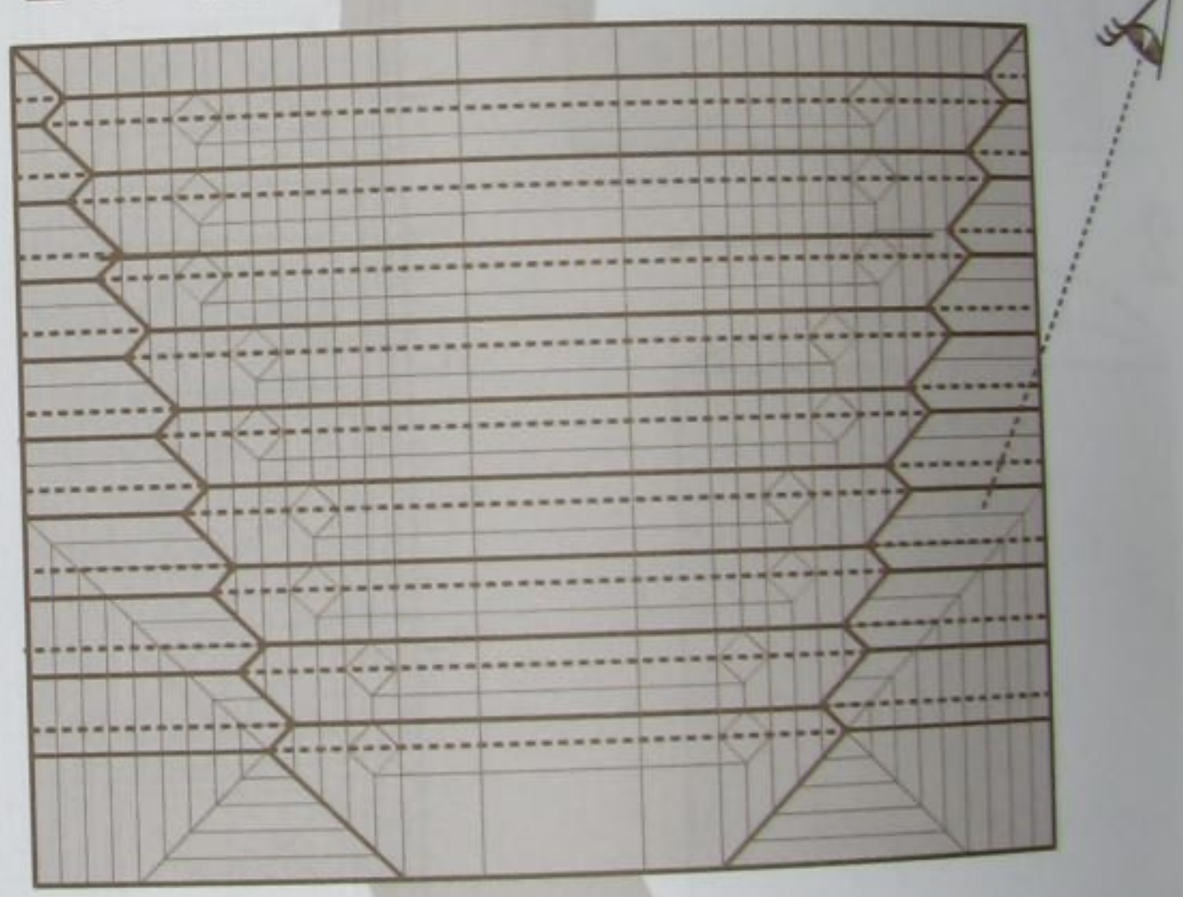


10 assemble using the existing crease lines



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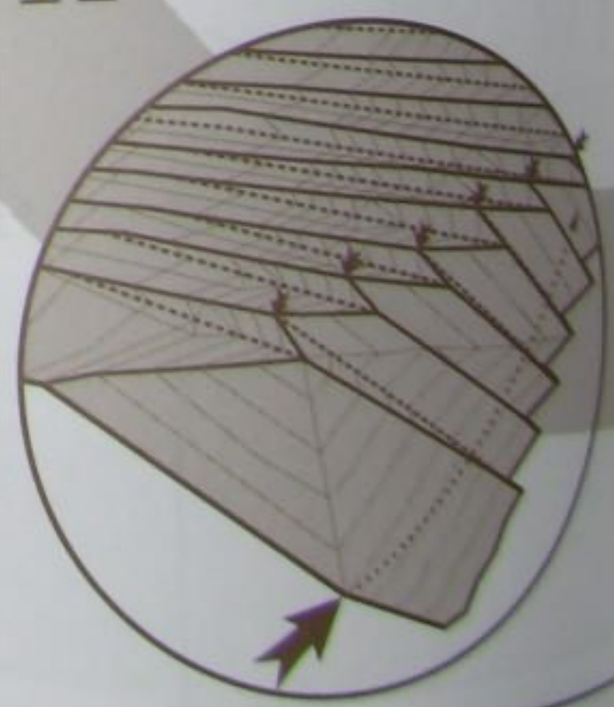
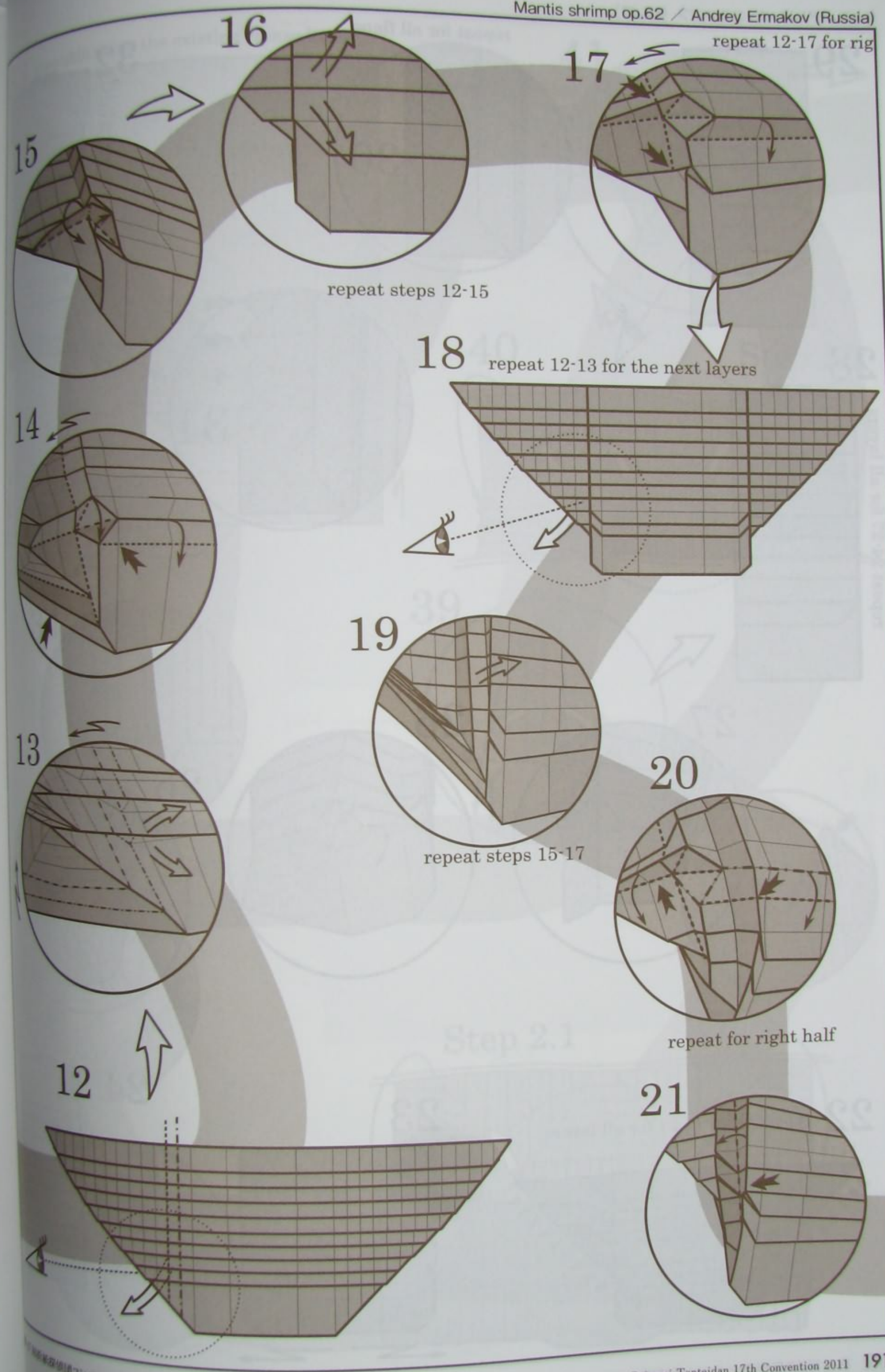
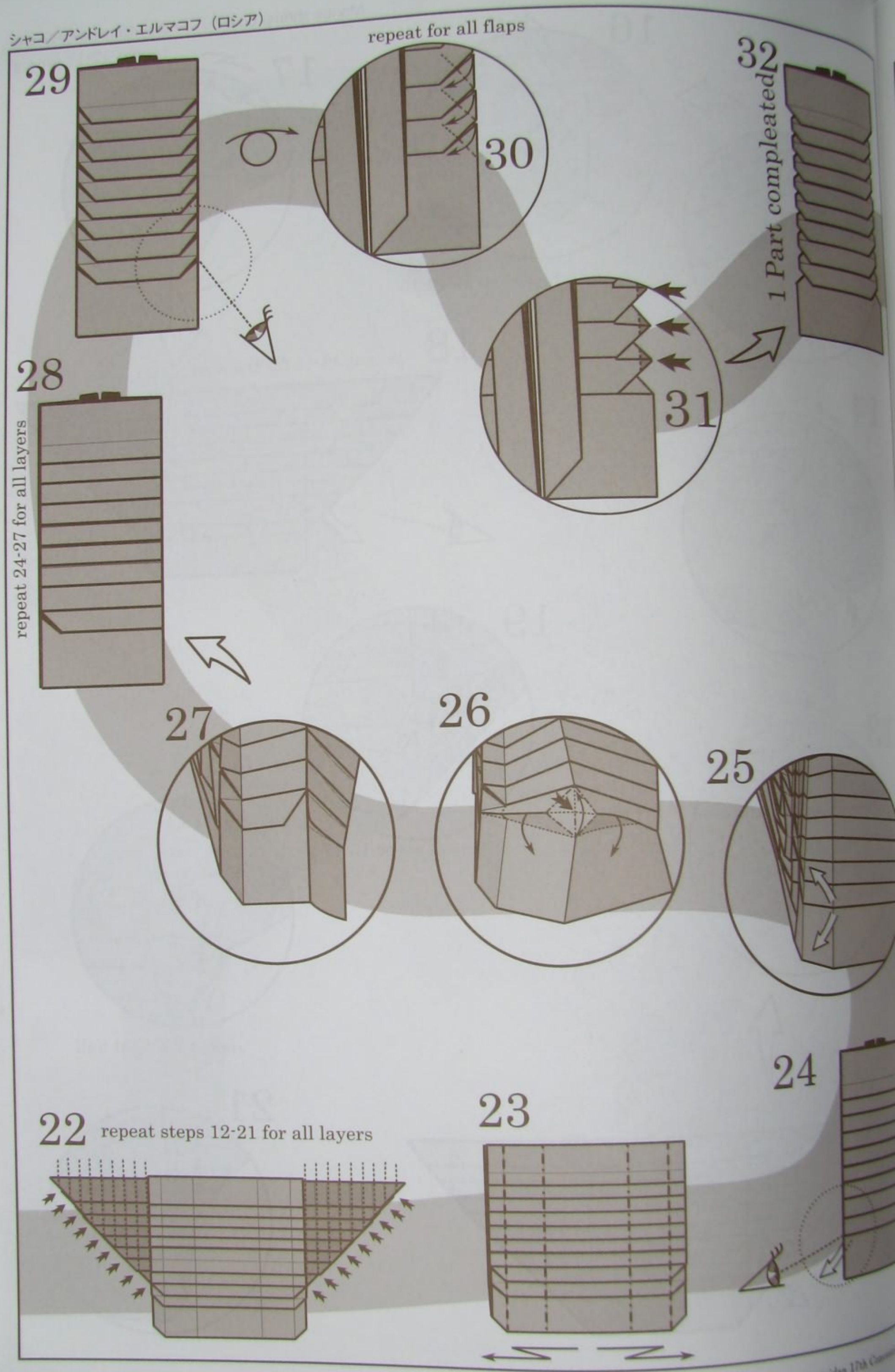
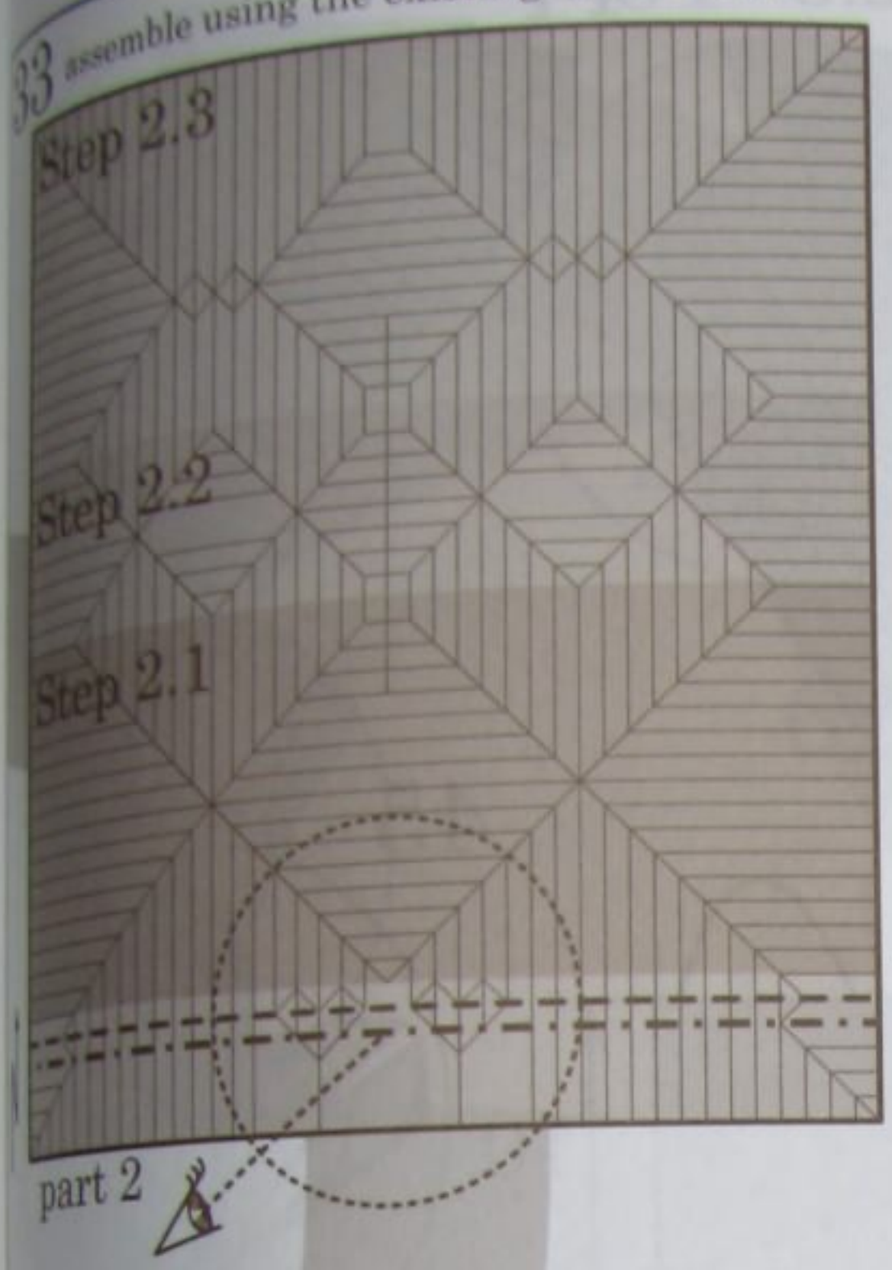


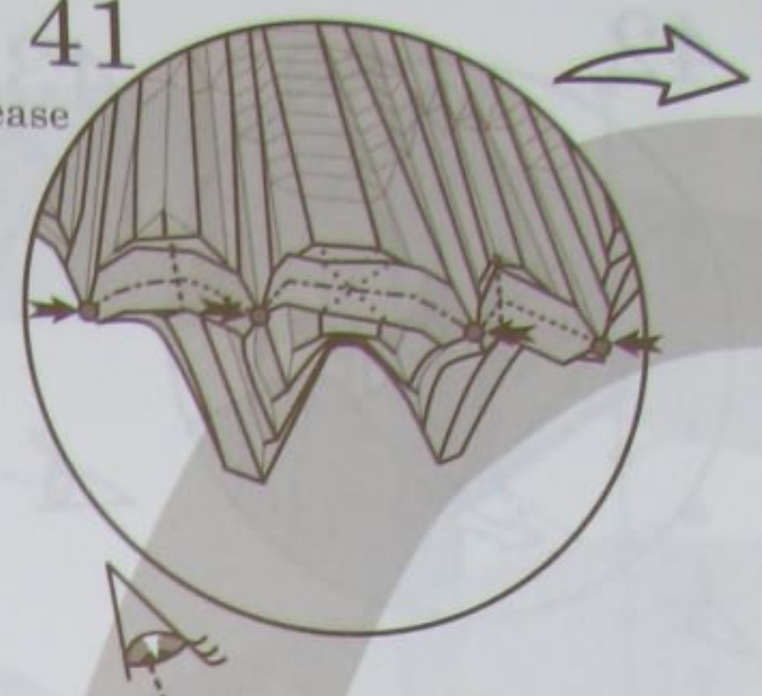

16
repeat 12-17 for rig
17
15
repeat steps 12-15
18
repeat 12-13 for the next layers
14
19
13
repeat steps 15-17
20
repeat for right half
12
21


29
repeat for all flaps
30
32
1 Part compleated
31
28
repeat 24-27 for all layers
27
26
25
24
22 repeat steps 12-21 for all layers
23

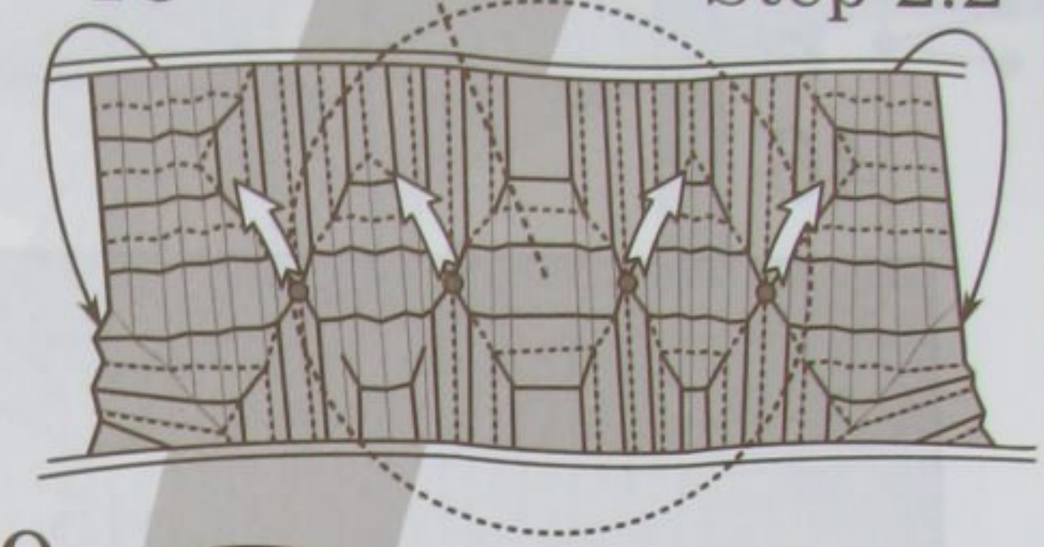
33 assemble using the existing crease lines




41 using the crease lines



40 Step 2.2



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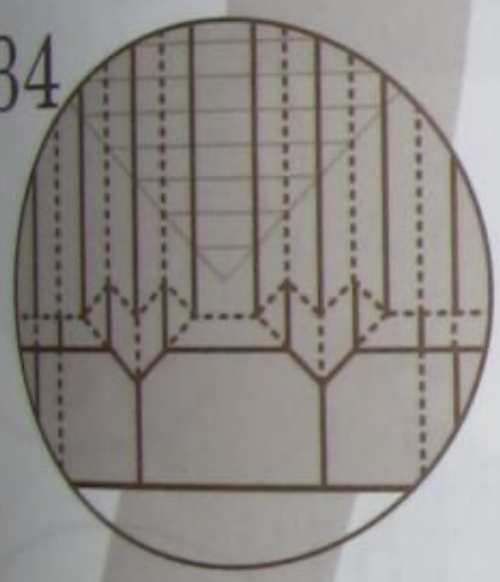
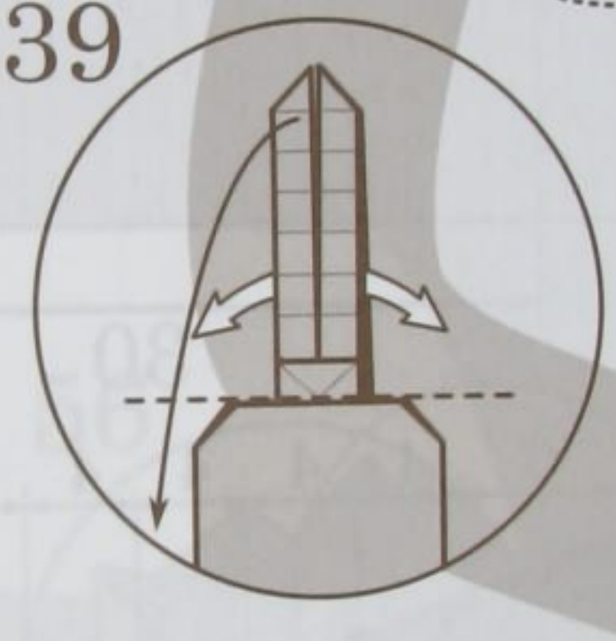
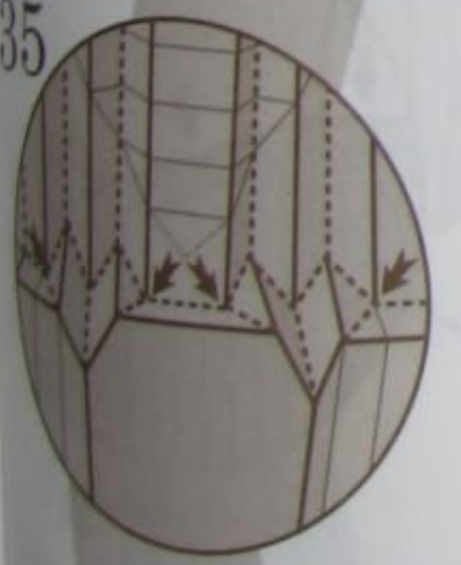


39

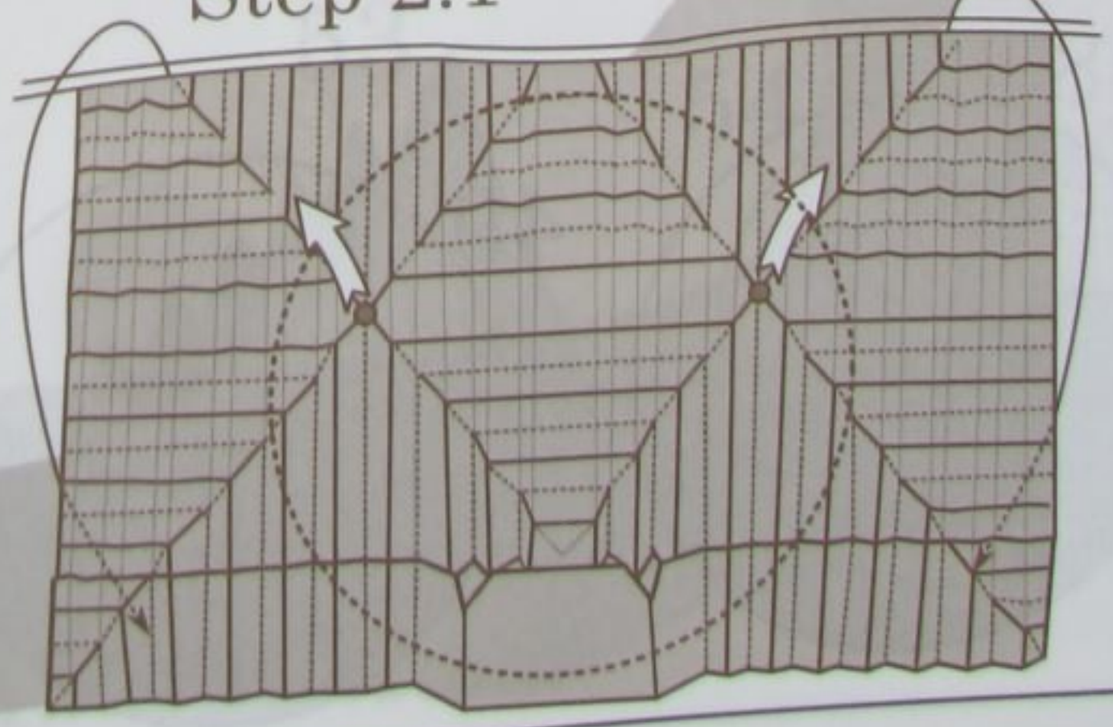


38

35



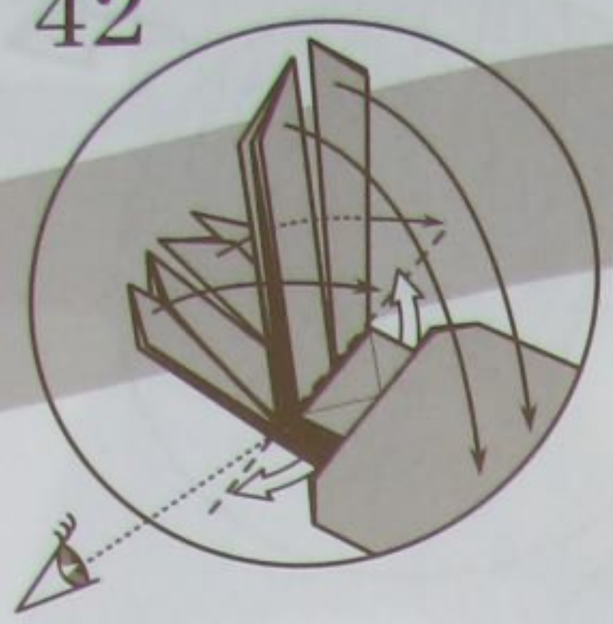
Step 2.1 37



36

Step 2.3

42



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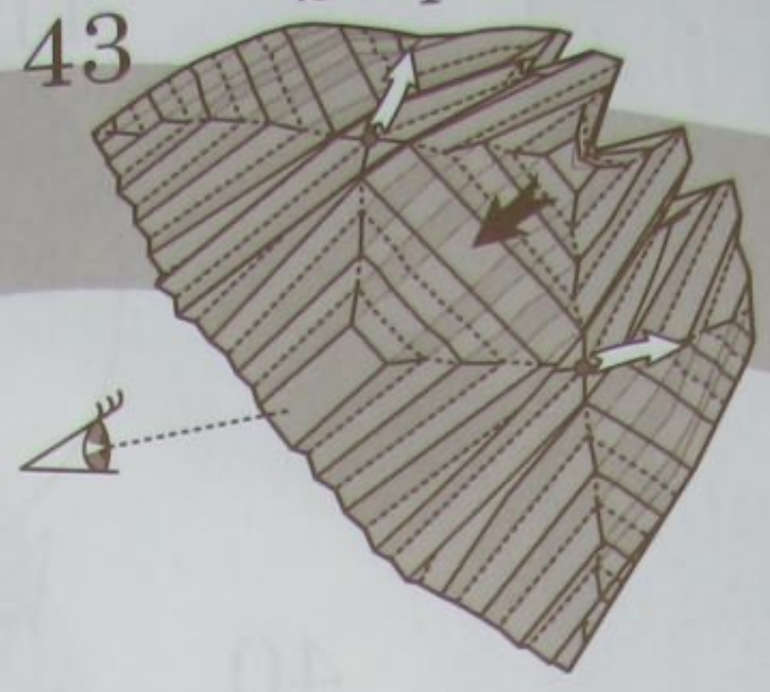
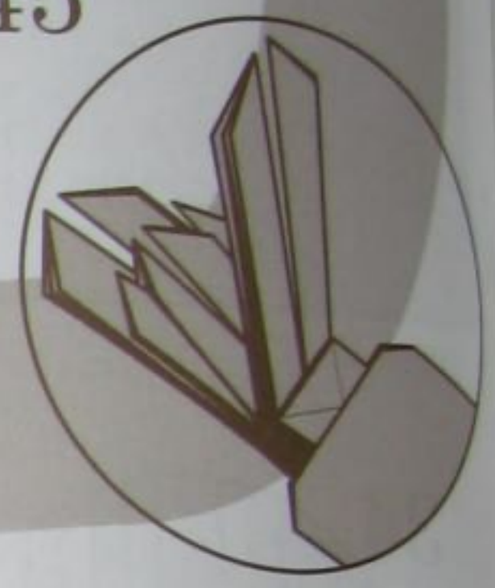


44

45



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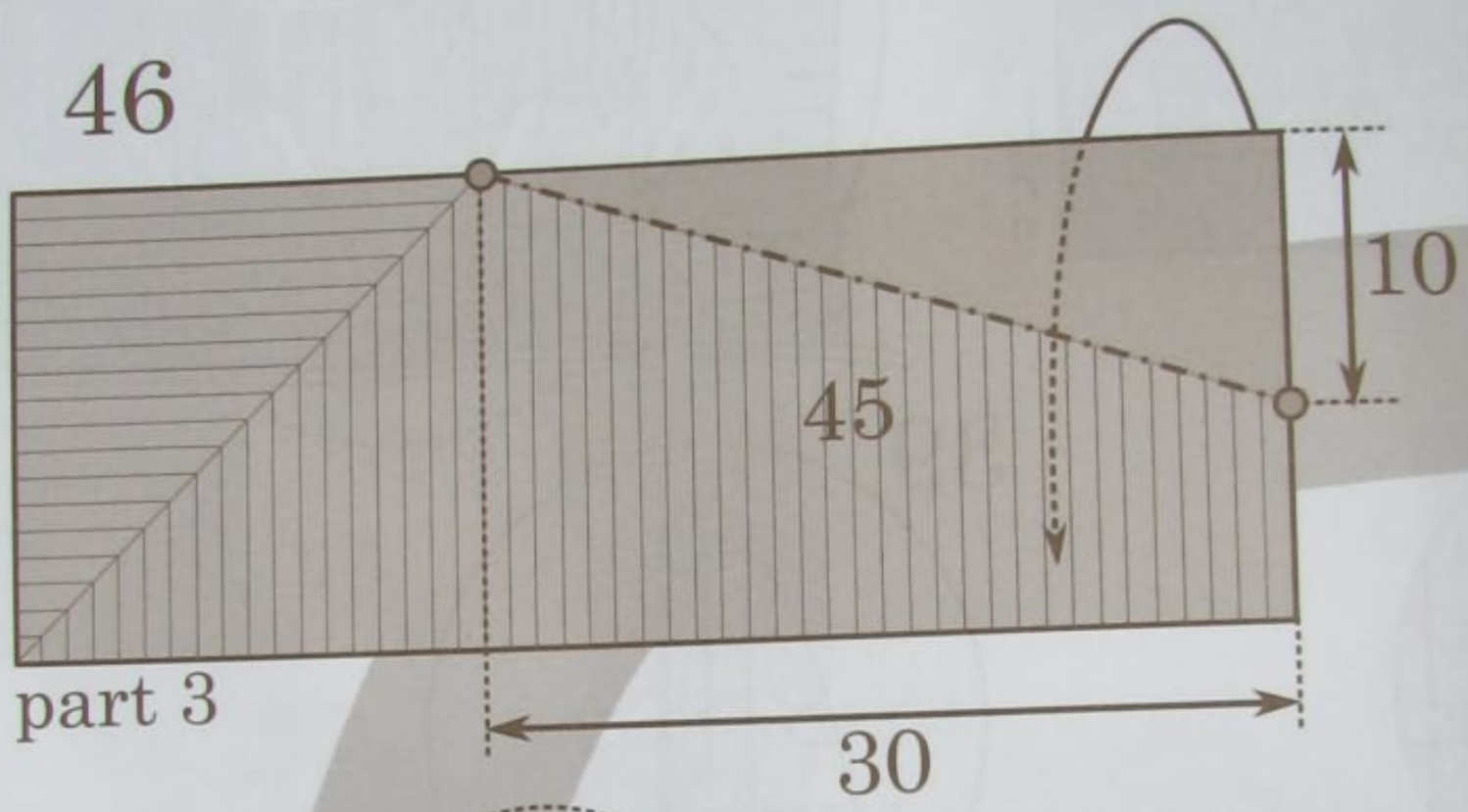


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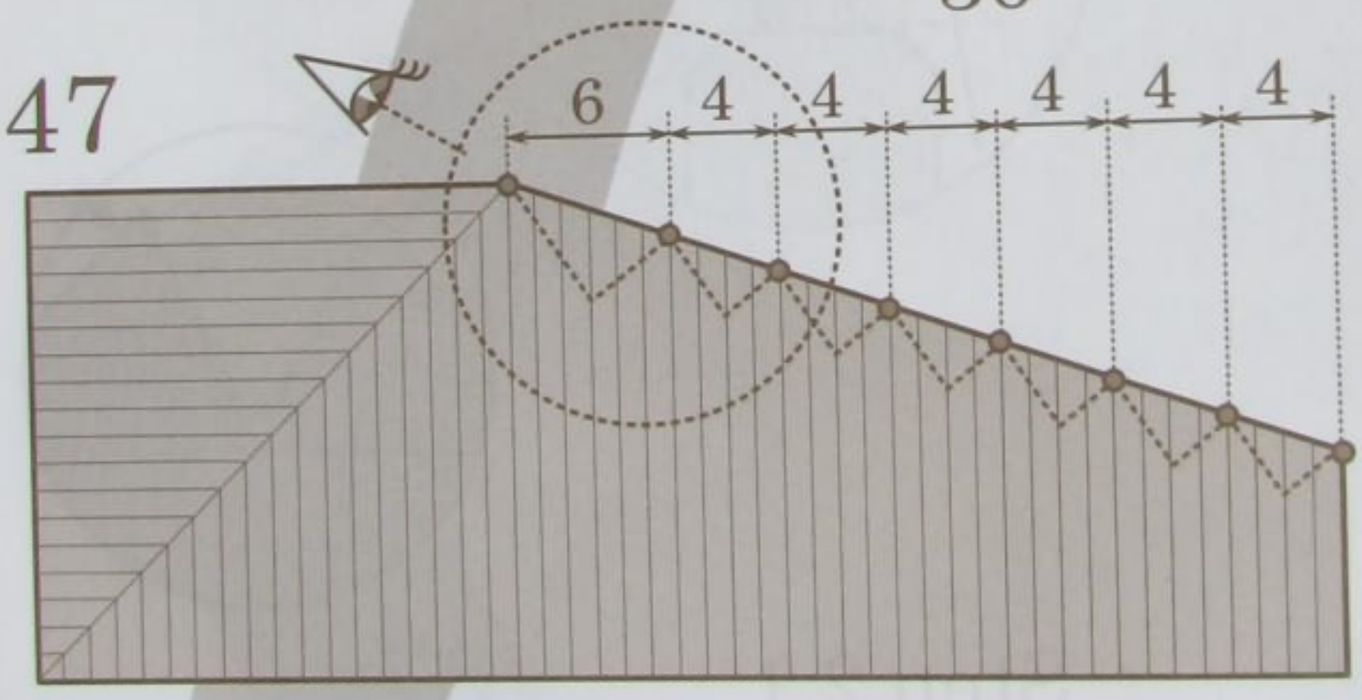
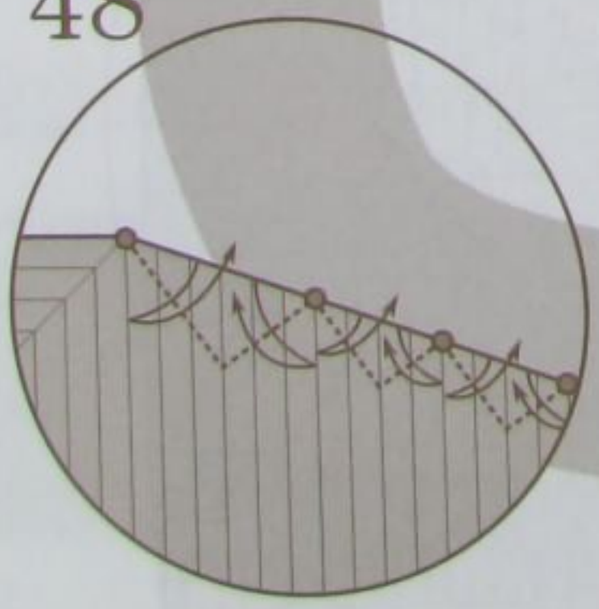


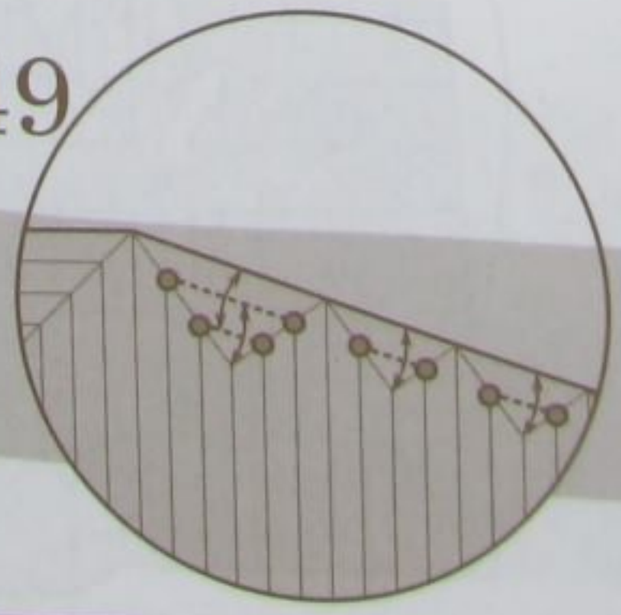

51

Part 2 compleated

48



49



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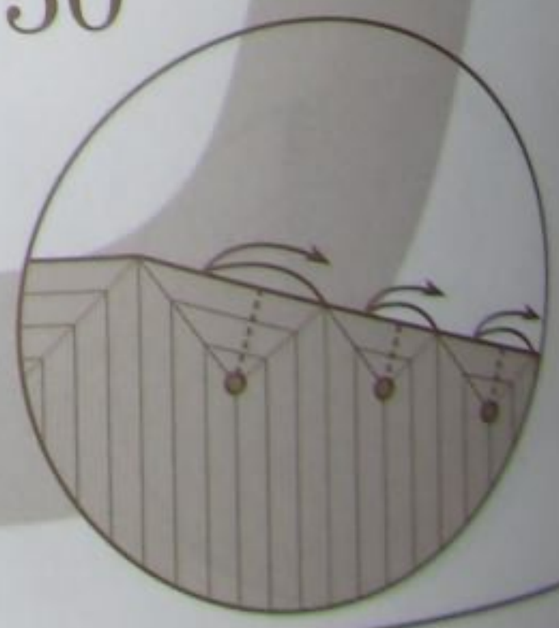
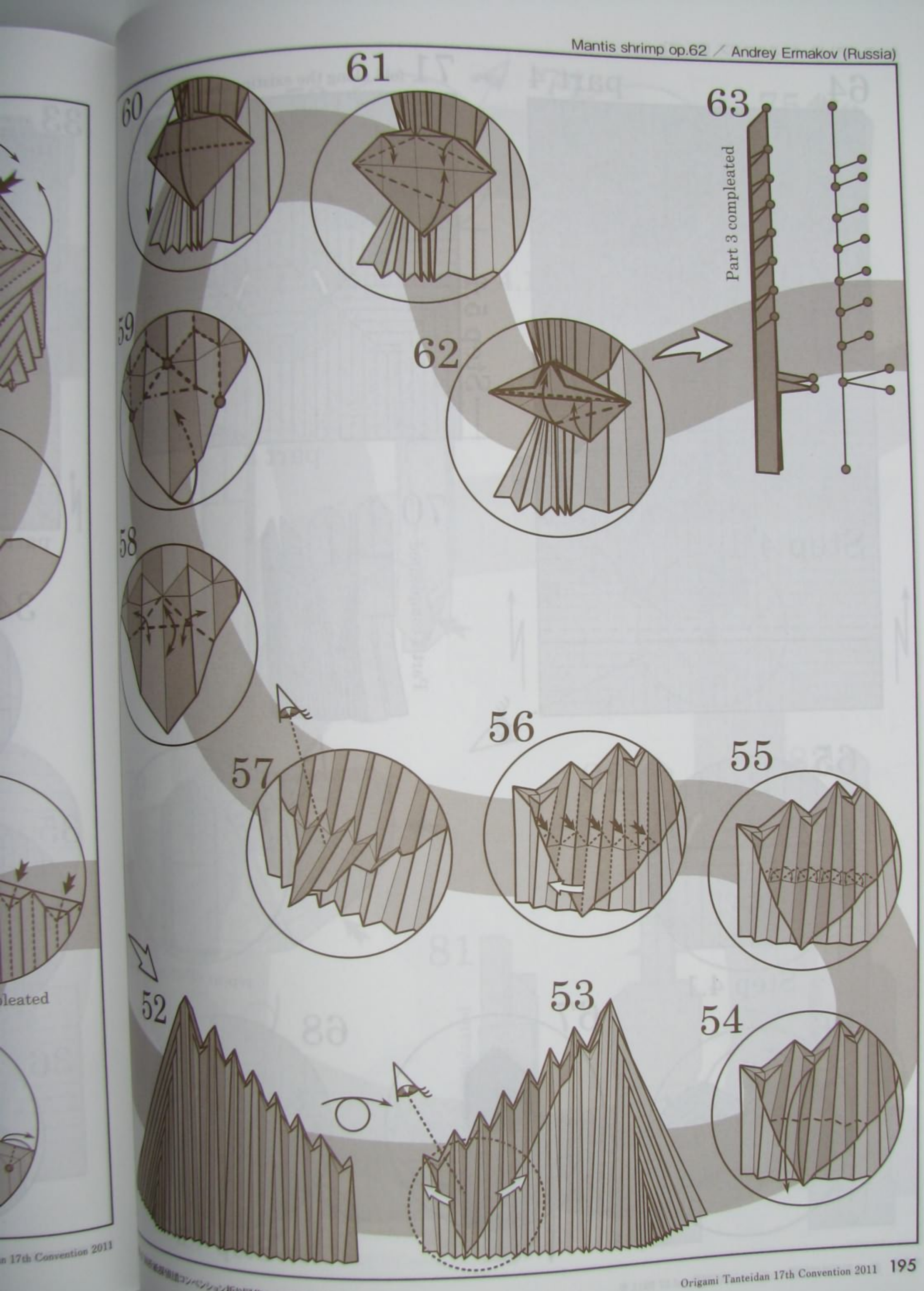
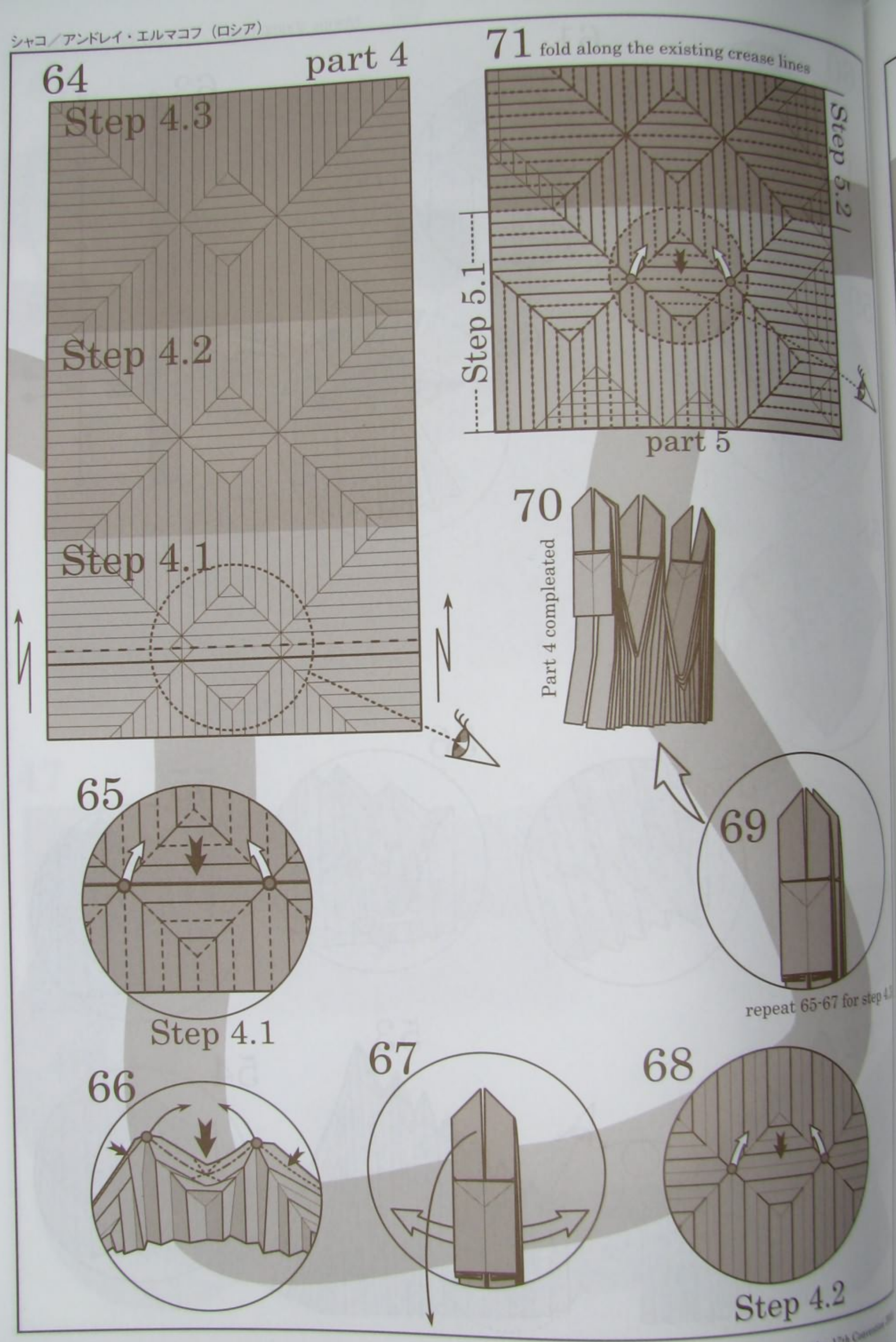
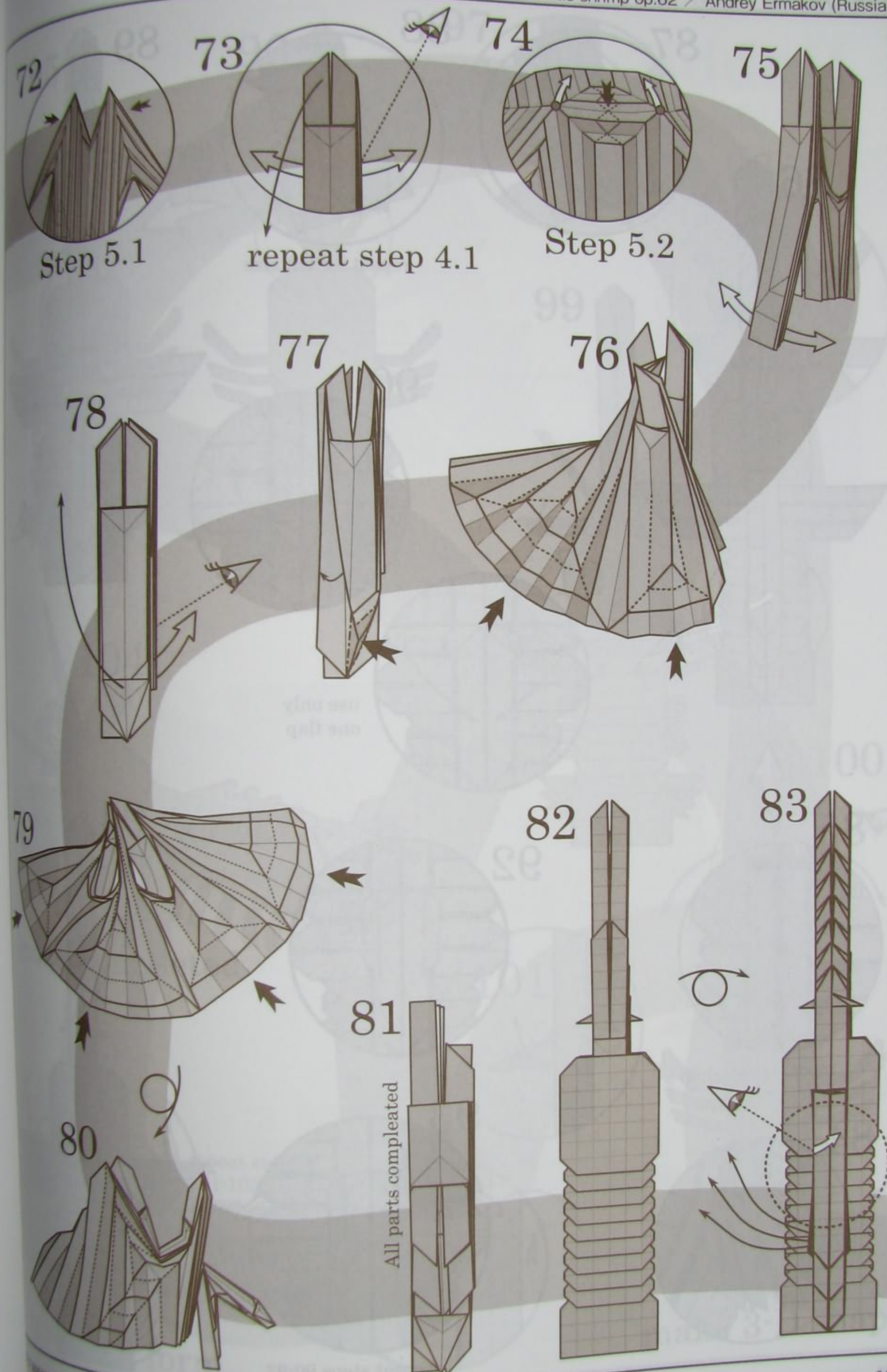
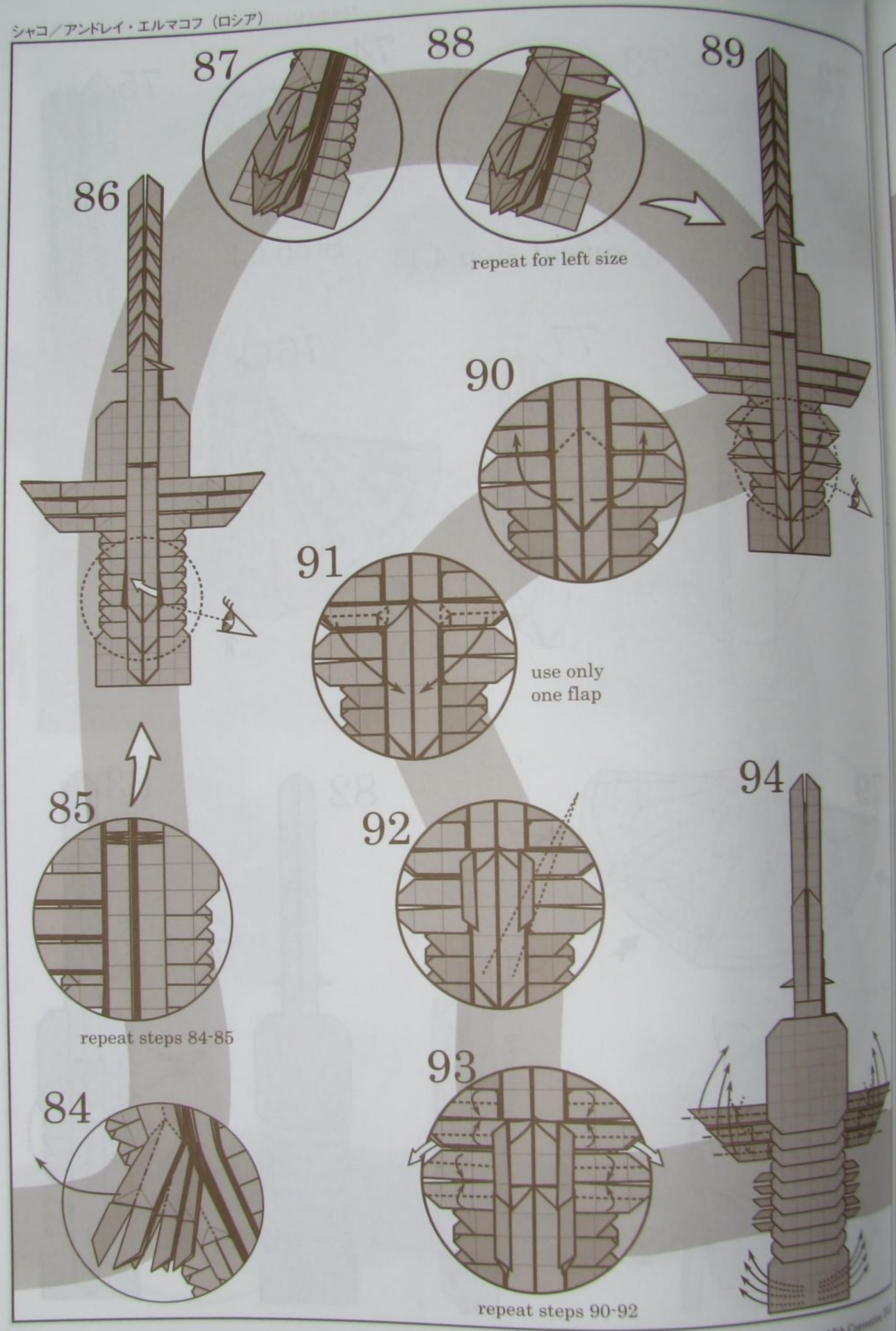
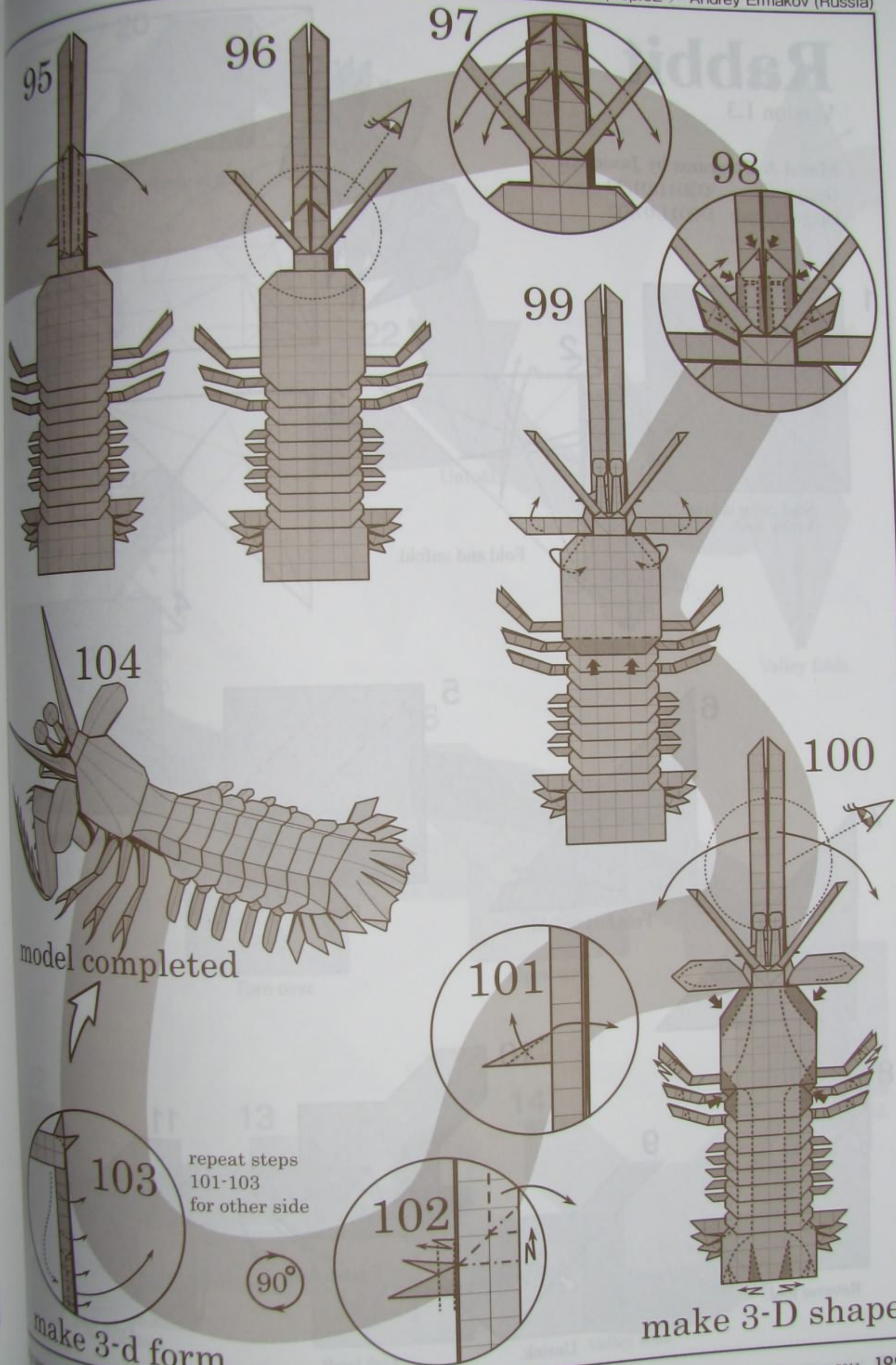



61
60
59
58
62
63
Part 3 compleated
57
56
55
52
53
54


64
part 4
Step 4.3
Step 4.2
Step 4.1
71 fold along the existing crease lines
Step 5.2
Step 5.1
part 5
70
Part 4 compleated
69
repeat 65-67 for step 4.2
65
Step 4.1
66
67
68
Step 4.2


72
Step 5.1
73
repeat step 4.1
74
Step 5.2
75
76
77
78
79
80
81
All parts compleated
82
83

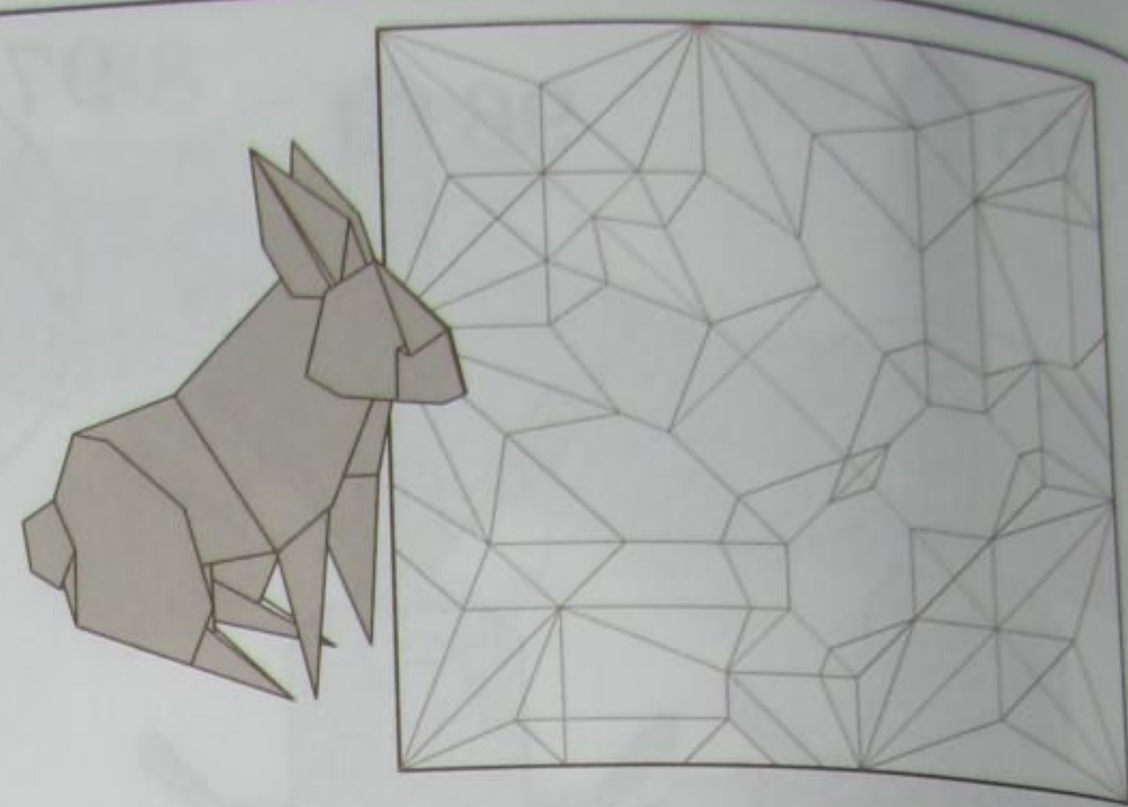

87
88
89
86
repeat for left size
90
91
use only
one flap
85
92
94
repeat steps 84-85
93
84
repeat steps 90-92


95
96
97
98
99
100
101
102
103
104
repeat steps
101-103
for other side
90°
model completed
make 3-d form
make 3-D shape

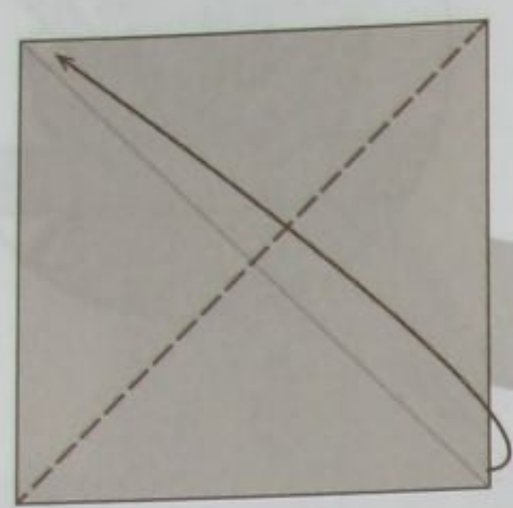
# Rabbit

Version 1.3

**Model & Diagrams by Jason Ku**
Designed: ©2011/01/23
Diagrammed: ©2011/07/02

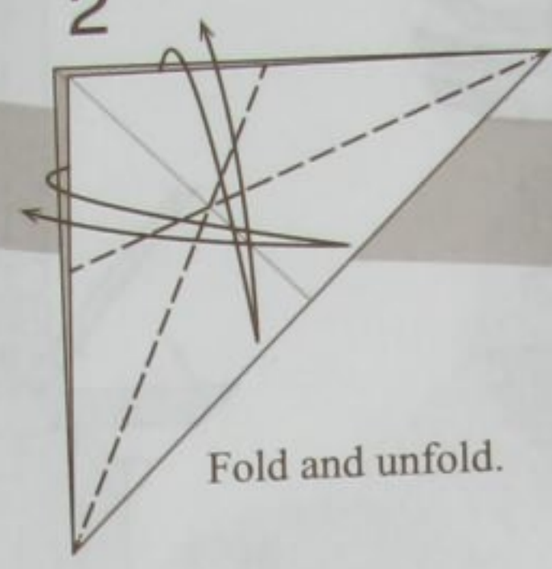


1



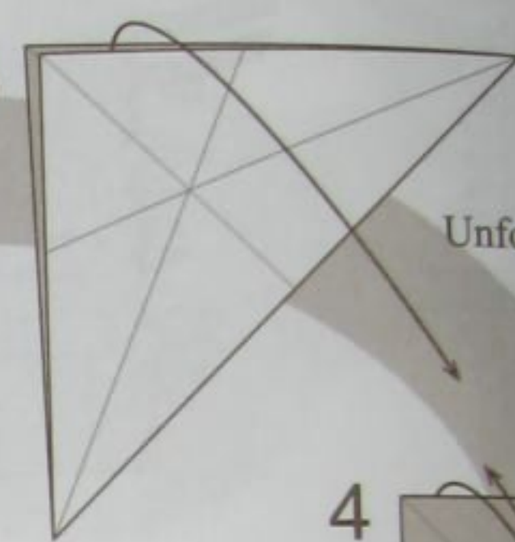
Start color side up.
Valley fold.

2



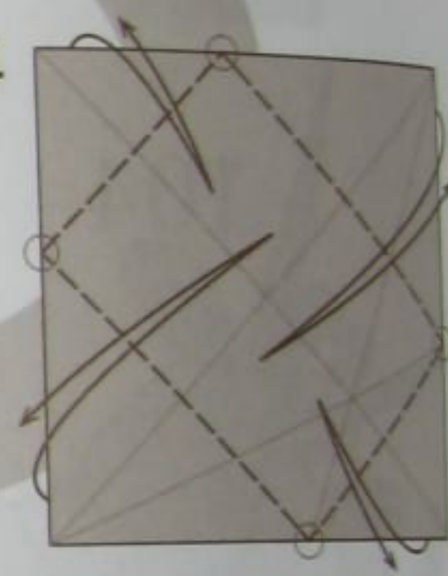
Fold and unfold.

3



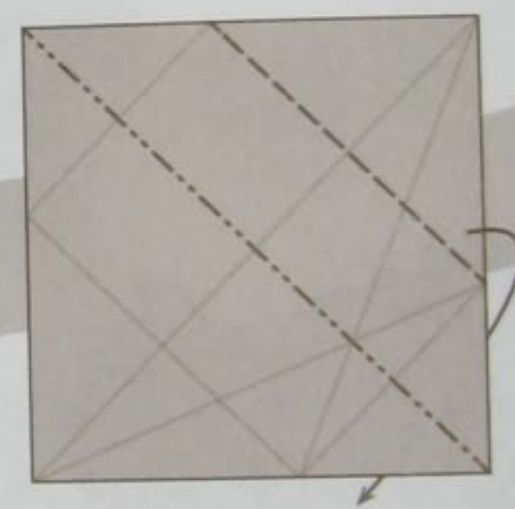
Unfold.

4



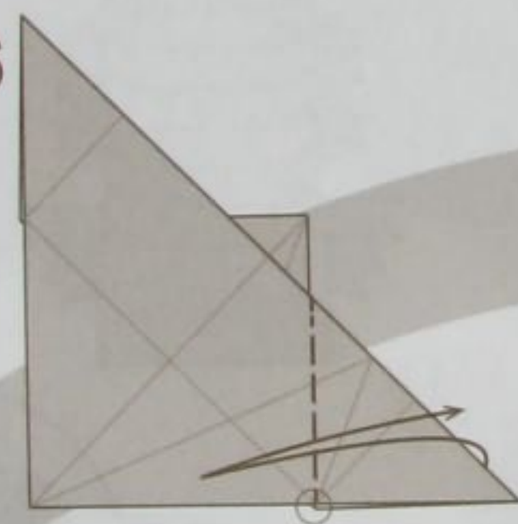
Fold and unfold.

5



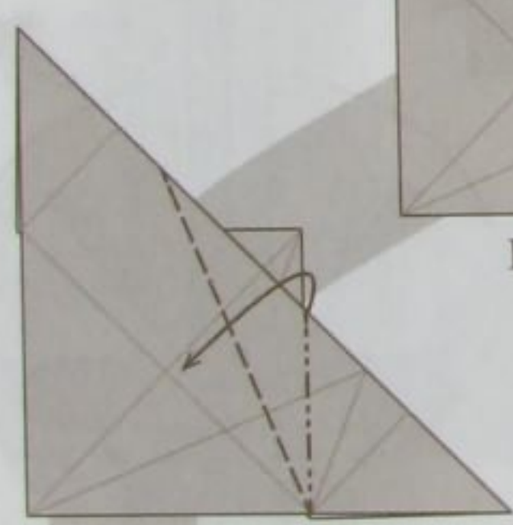
Pleat.

6



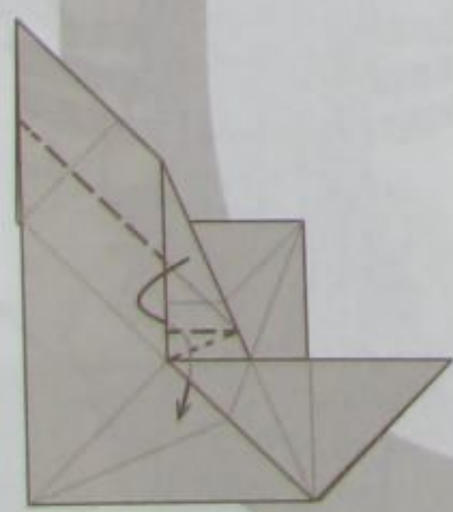
Fold and unfold.

7



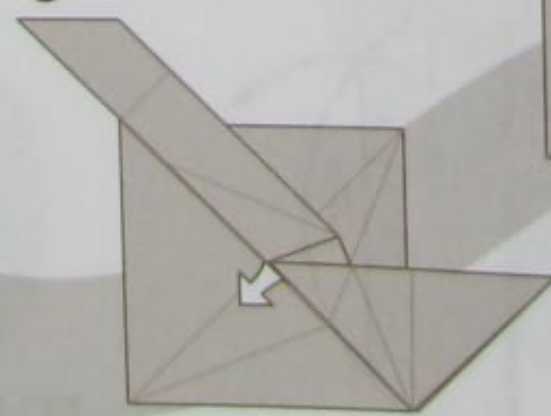
Pleat.

8



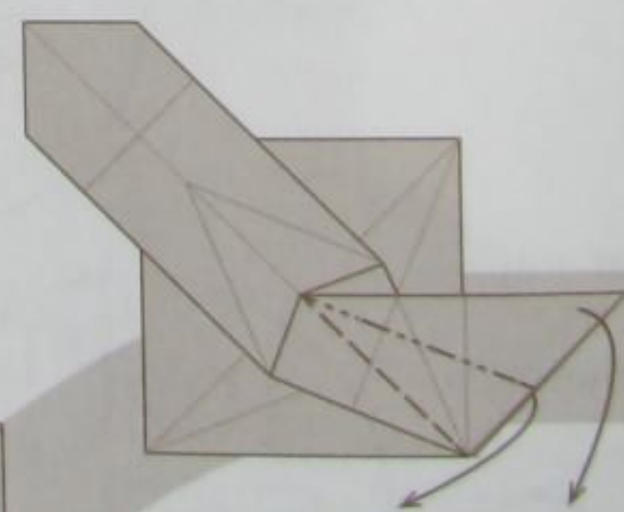
Reverse fold.

9



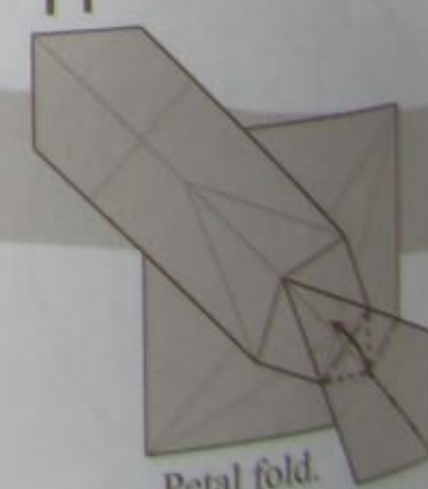
Unsink.

10

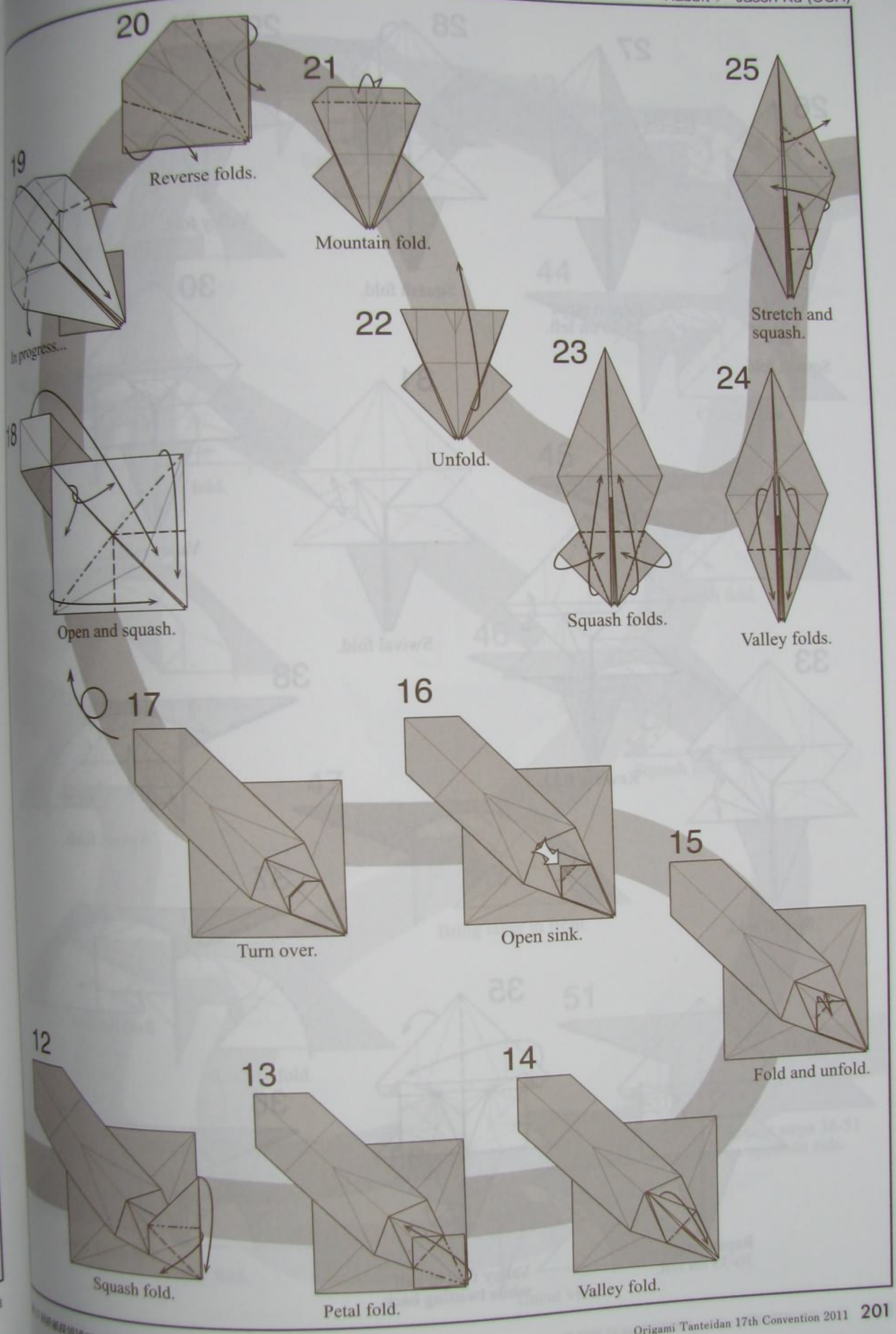


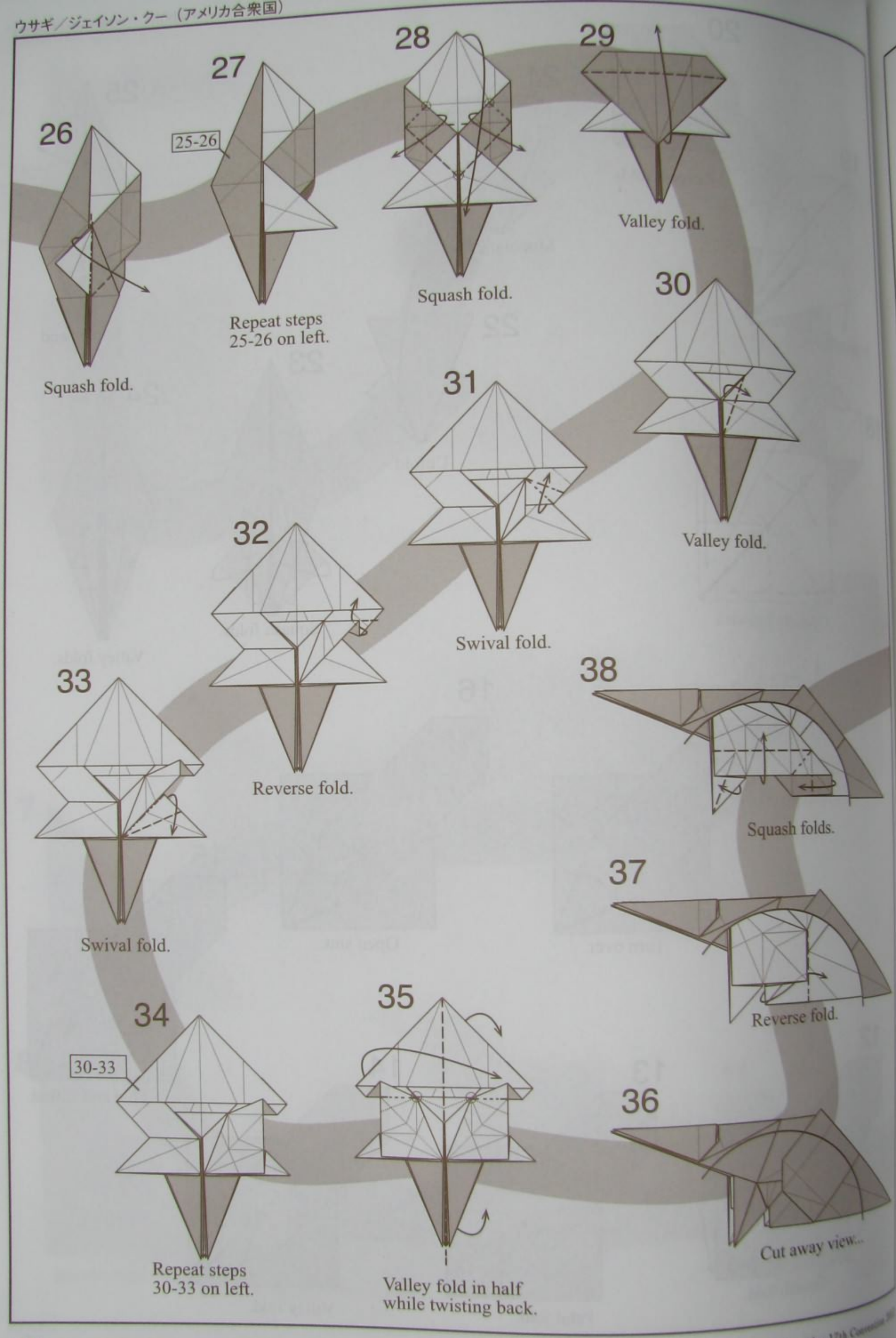
Squash fold.

11

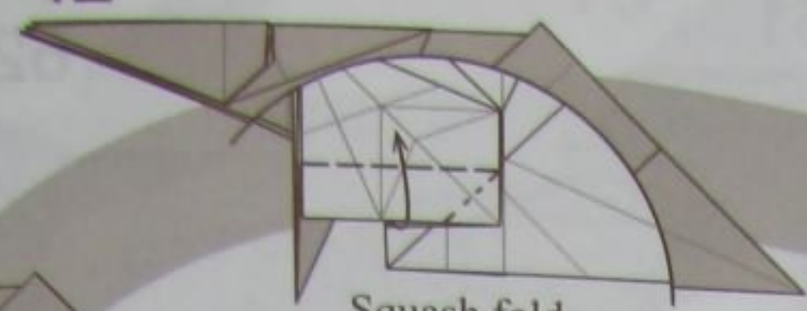


Petal fold.


20
Reverse folds.
21
Mountain fold.
25
Stretch and squash.
19
In progress...
22
Unfold.
23
Squash folds.
24
Valley folds.
18
Open and squash.
17
Turn over.
16
Open sink.
15
Fold and unfold.
12
Squash fold.
13
Petal fold.
14
Valley fold.

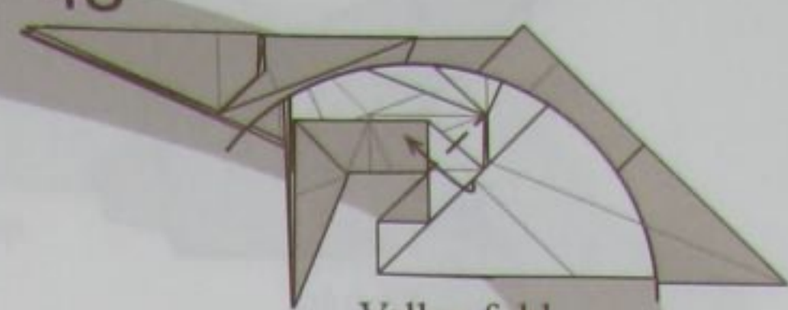

26
Squash fold.
27
25-26
Repeat steps
25-26 on left.
28
Squash fold.
29
Valley fold.
30
Valley fold.
31
Swival fold.
32
Reverse fold.
33
Swival fold.
34
30-33
Repeat steps
30-33 on left.
35
Valley fold in half
while twisting back.
36
Cut away view...
37
Reverse fold.
38
Squash folds.

42



Squash fold.

43

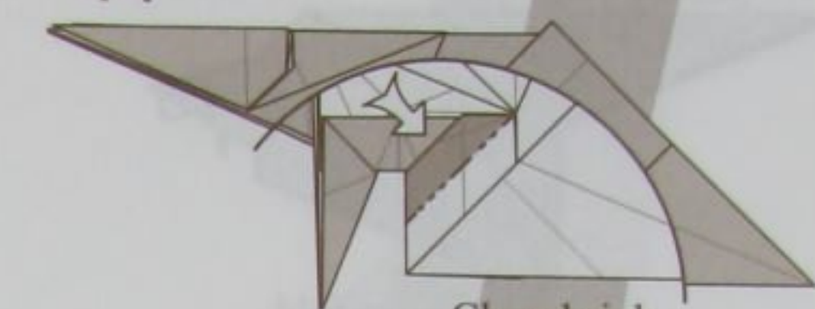


Valley fold.

41

Reverse fold.

44

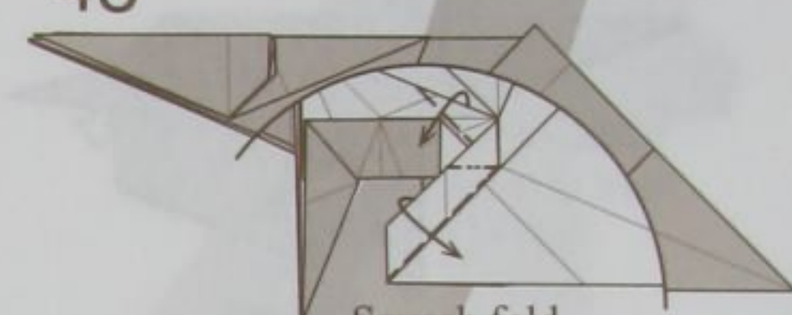


Closed sink.

40

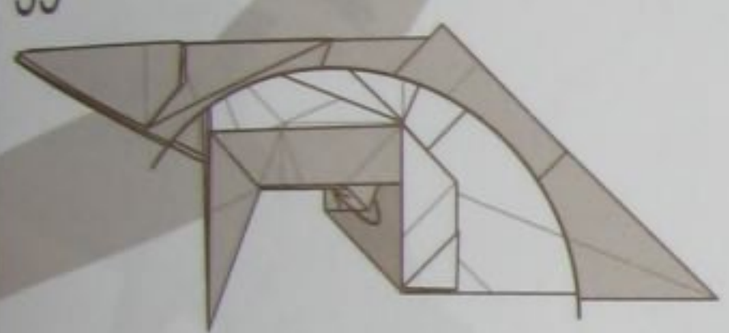
Squash fold.

45



Squash fold.

39

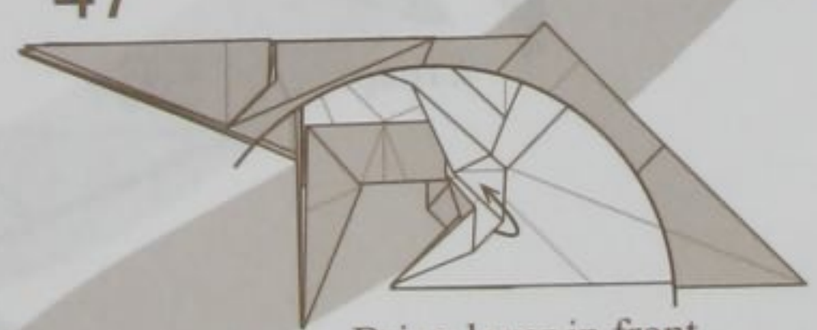


Bring layer in front.

46

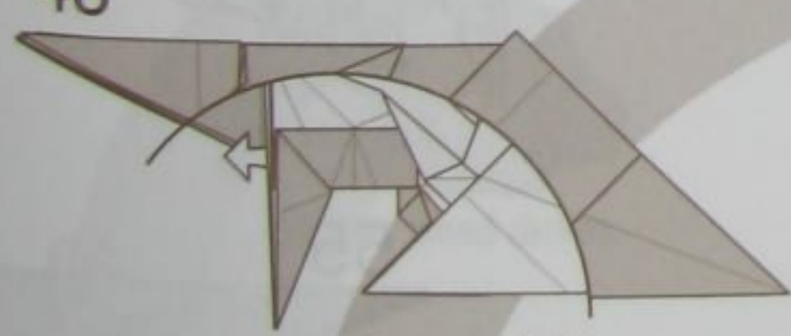
Squash fold.

47



Bring layer in front.

48



Reverse fold.

51

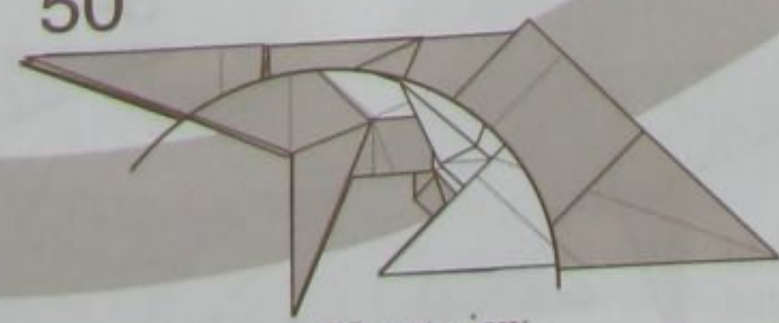
36-51

Repeat steps 36-51 on opposite side.

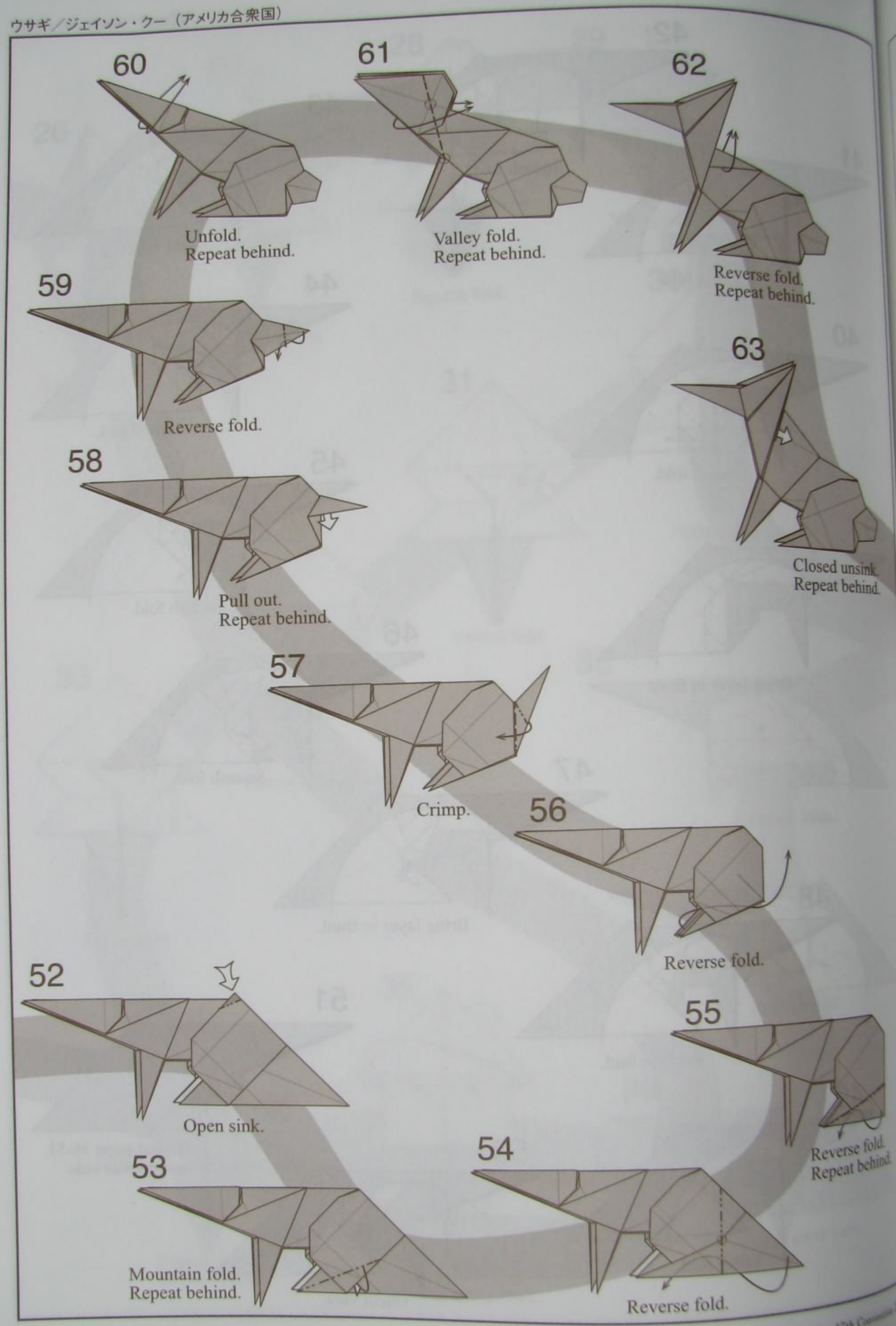
49

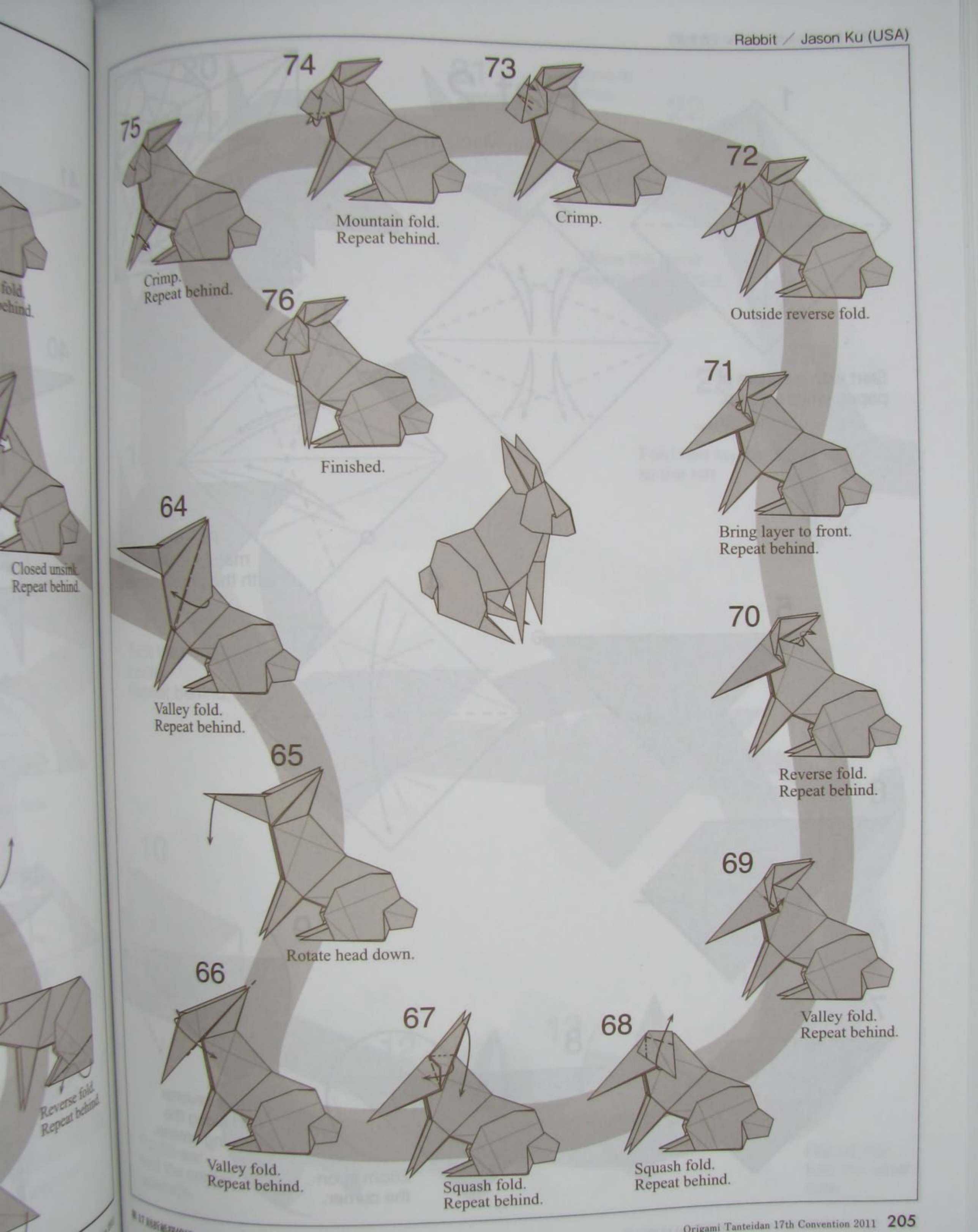
Valley fold.

50



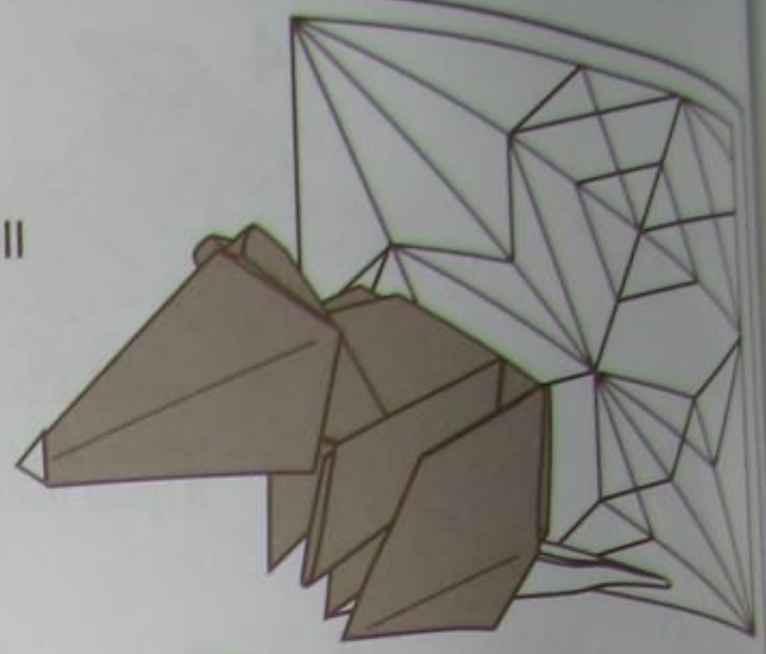
Uncut view.


60
Unfold.
Repeat behind.
61
Valley fold.
Repeat behind.
62
Reverse fold.
Repeat behind.
59
Reverse fold.
63
Closed unsink.
Repeat behind.
58
Pull out.
Repeat behind.
57
Crimp.
56
Reverse fold.
52
Open sink.
55
Reverse fold.
Repeat behind.
53
Mountain fold.
Repeat behind.
54
Reverse fold.

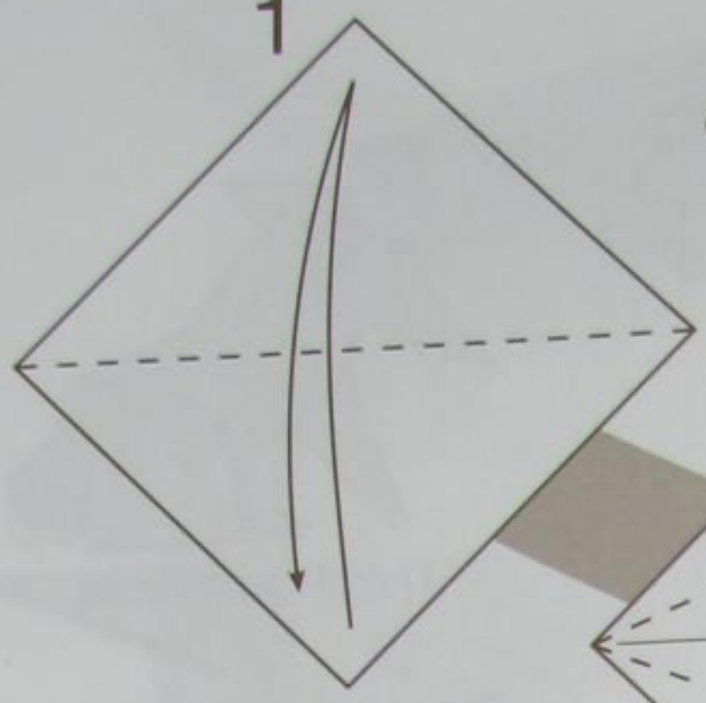

74
Mountain fold.
Repeat behind.
73
Crimp.
72
Outside reverse fold.
75
Crimp.
Repeat behind.
76
Finished.
71
Bring layer to front.
Repeat behind.
64
Valley fold.
Repeat behind.
70
Reverse fold.
Repeat behind.
65
Rotate head down.
69
Valley fold.
Repeat behind.
66
Valley fold.
Repeat behind.
67
Squash fold.
Repeat behind.
68
Squash fold.
Repeat behind.

# Rat 2

© 2010 Ryan MacDonell

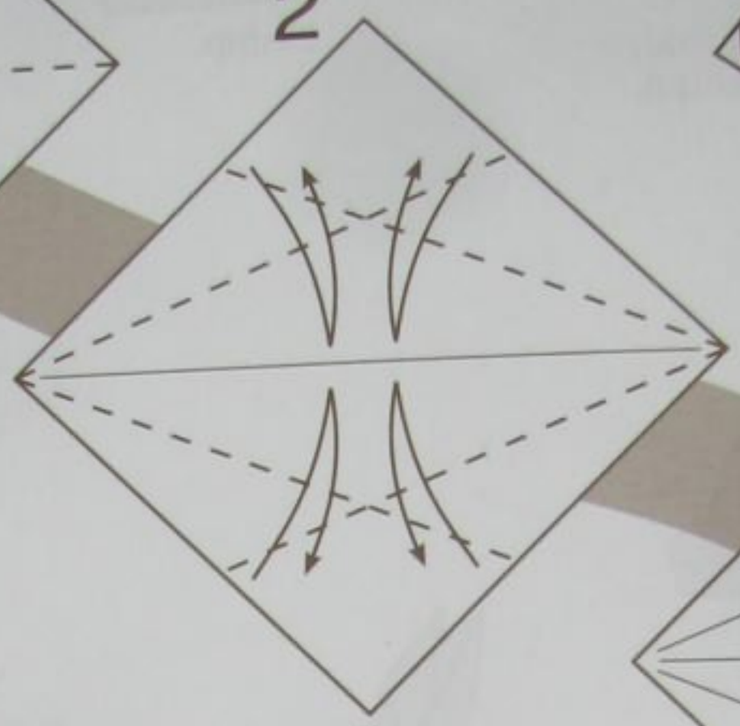


1



Start with a square of paper, white side up.

2



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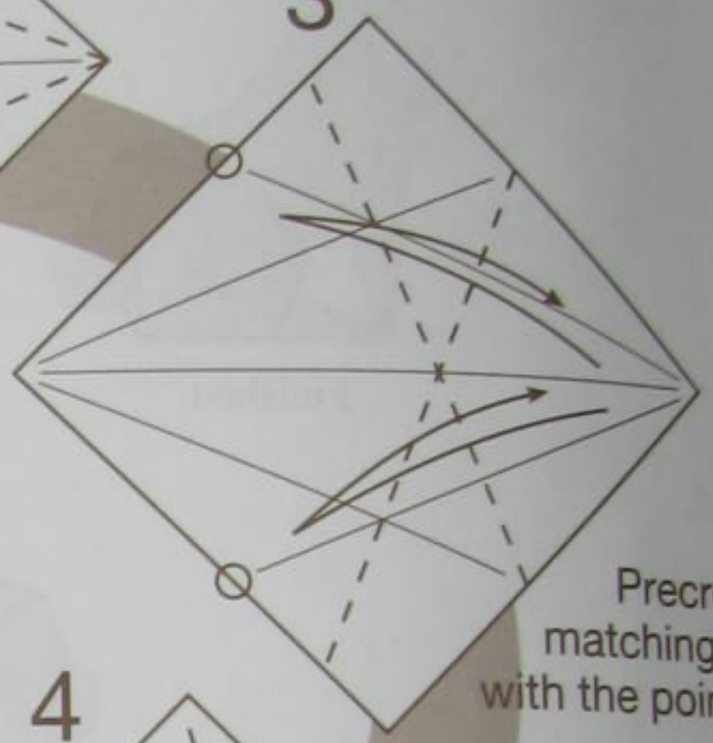
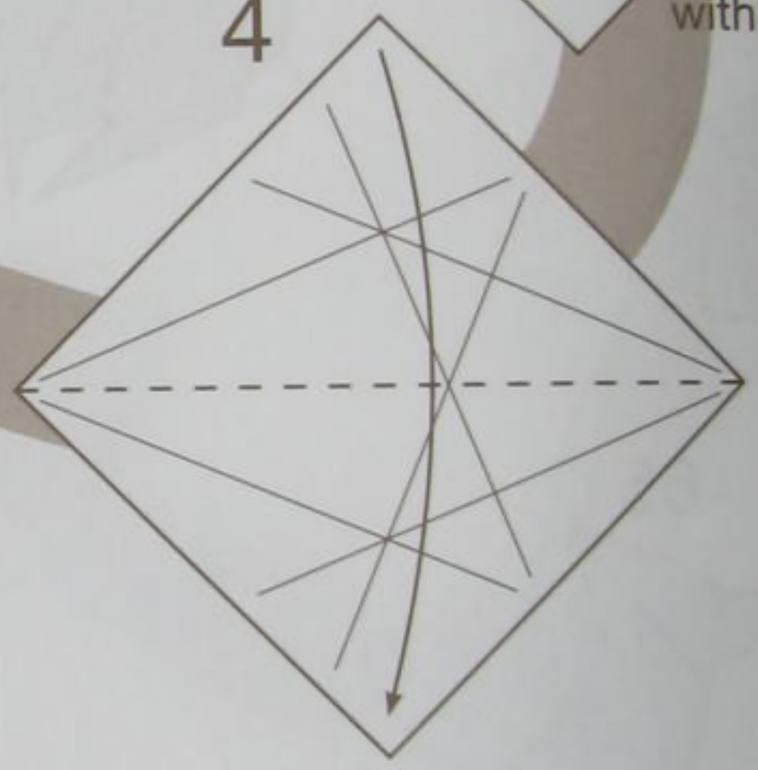


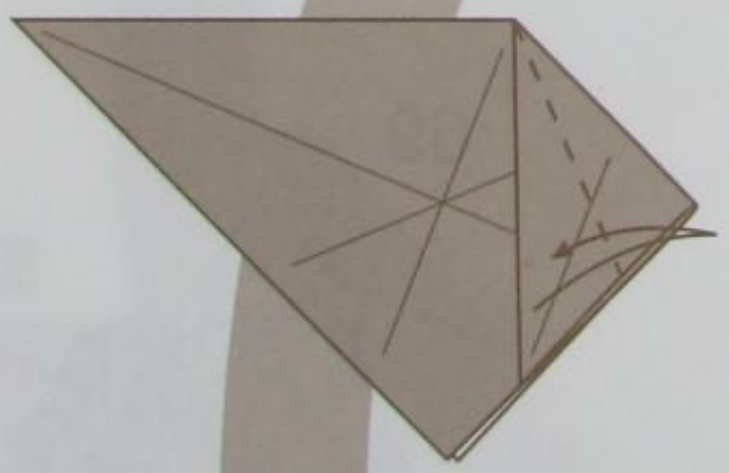
Precrease by matching the corner with the points shown.

4

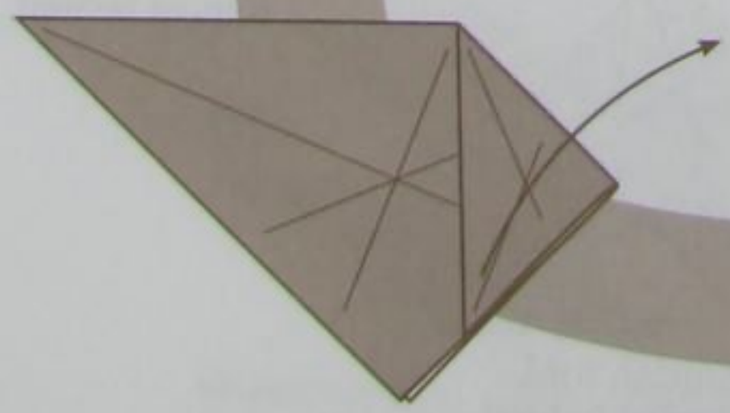


5

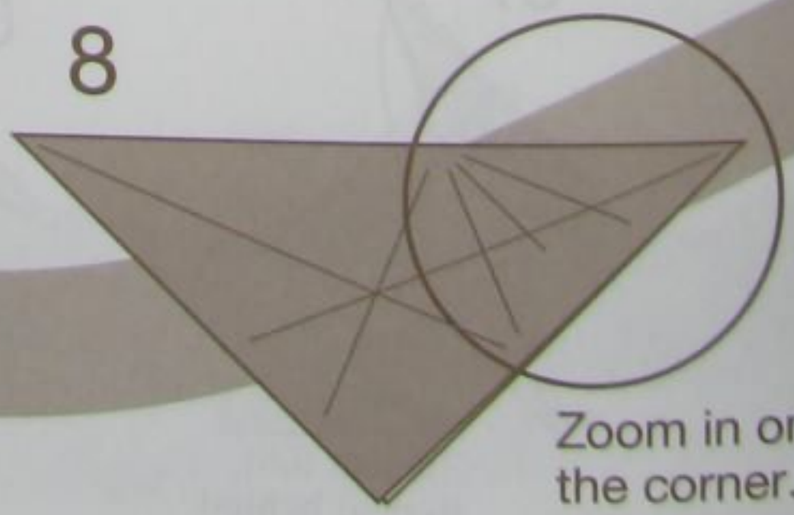
6



7



8



Zoom in on the corner.

9

Inside reverse fold along the existing crease.

rease by
g the corner
nts shown.

reverse
ong the
g crease.

20

Begin collapsing
on the top layer
as shown.

21

Collapse in
progress.

22

Move the lower
layers to the front.

23

Fold two layers
to the left.

19

18

Tuck the corner
inside.
Repeat behind.

17

16

15

10

11

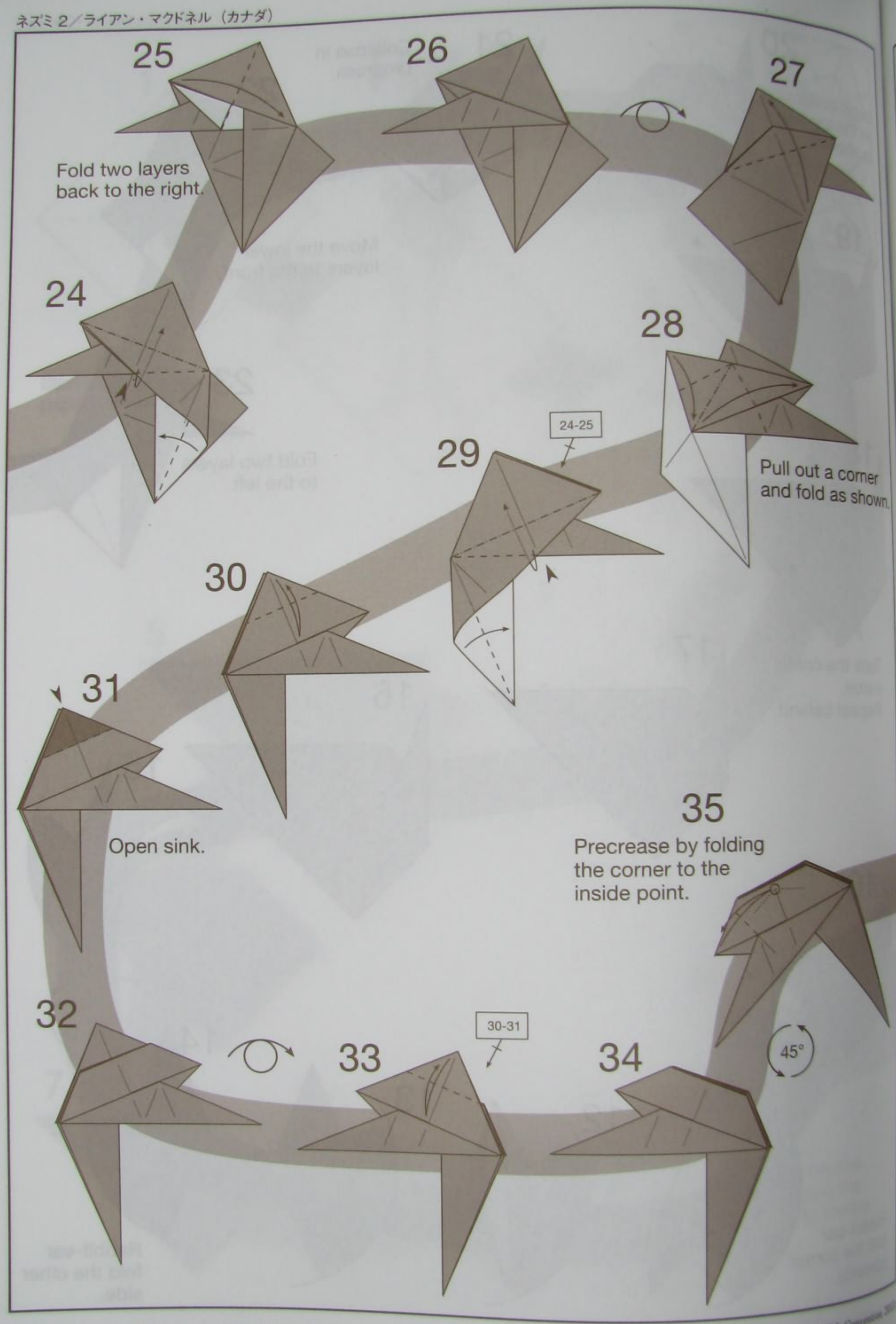
Rabbit-ear
fold the corner
upwards.

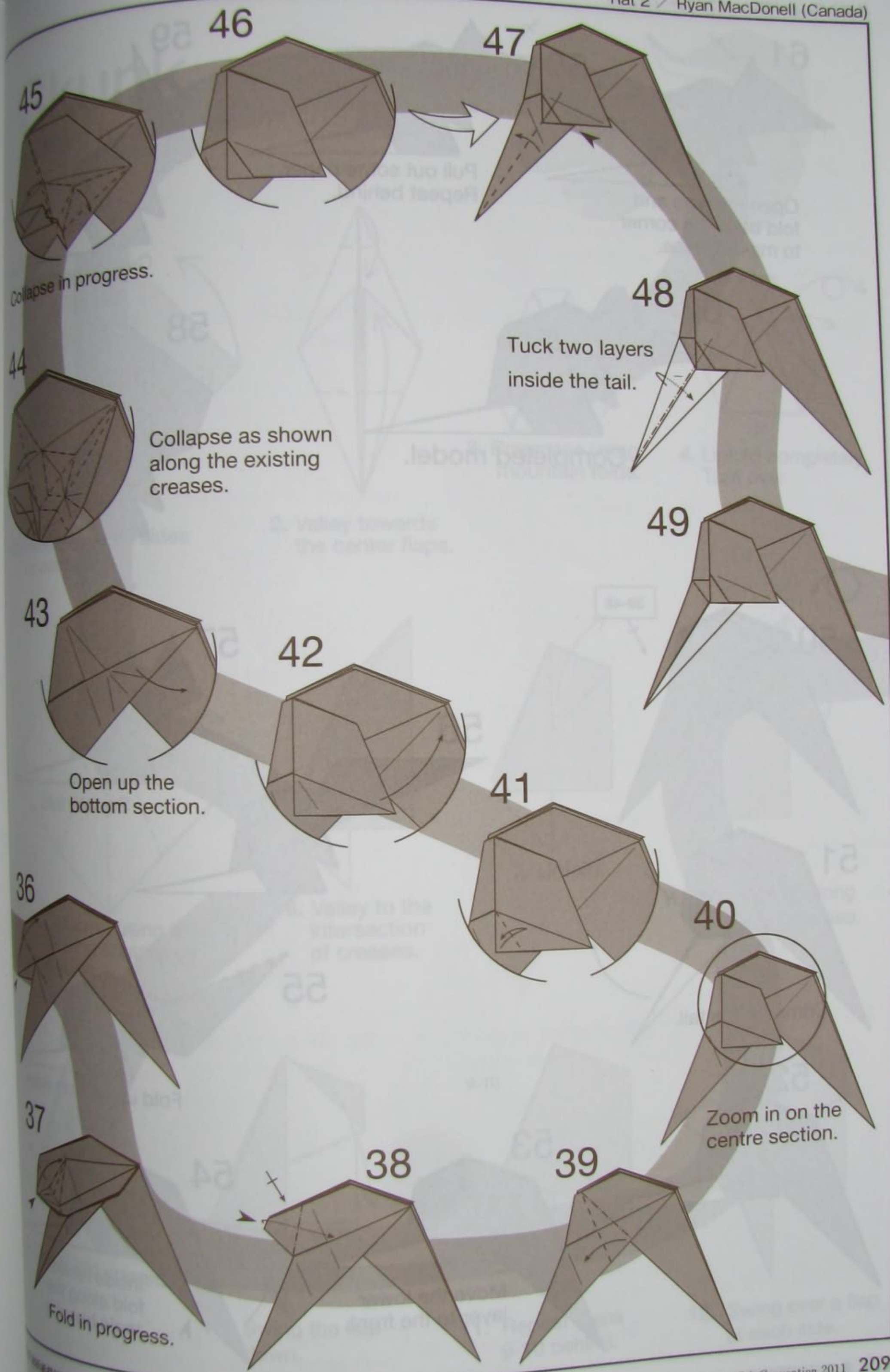
12

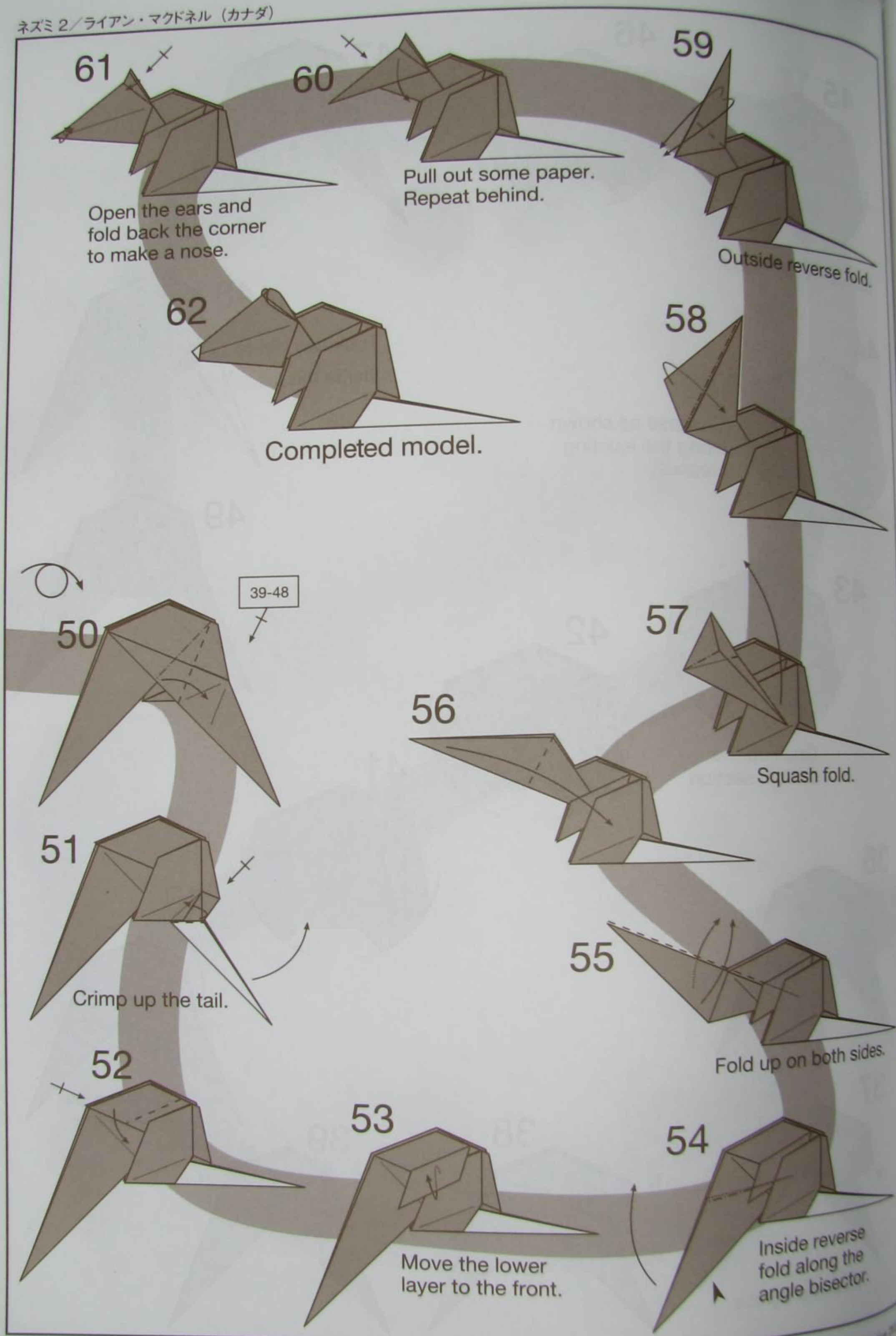
13

14

Rabbit-ear
fold the other
side.

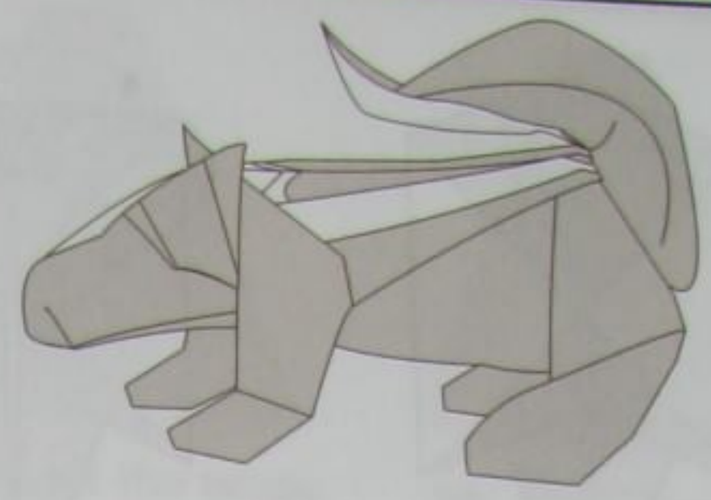

25
Fold two layers back to the right.
26
27
24
28
Pull out a corner and fold as shown.
24-25
29
30
31
Open sink.
35
Precrease by folding the corner to the inside point.
32
30-31
33
34
45°

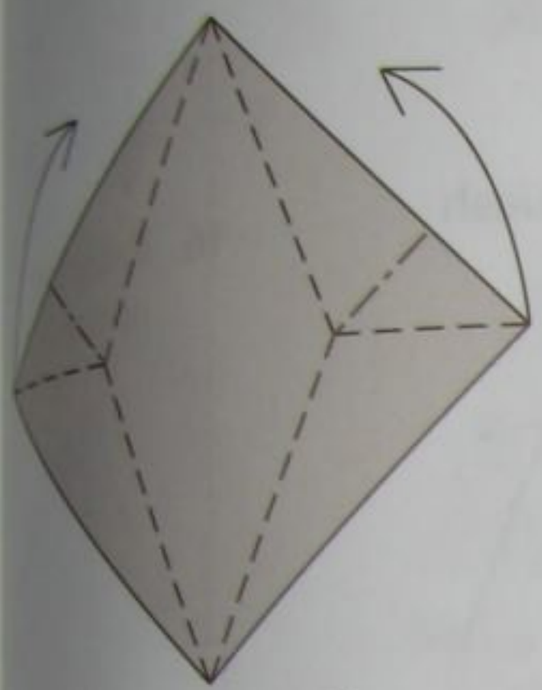

45
46
47
Collapse in progress.
48
Tuck two layers inside the tail.
44
Collapse as shown along the existing creases.
49
43
42
Open up the bottom section.
41
36
40
Zoom in on the centre section.
37
38
39
Fold in progress.


61
Open the ears and fold back the corner to make a nose.
60
Pull out some paper. Repeat behind.
59
Outside reverse fold.
62
Completed model.
58
39-48
50
57
Squash fold.
56
51
Crimp up the tail.
55
Fold up on both sides.
52
53
Move the lower layer to the front.
54
Inside reverse fold along the angle bisector.

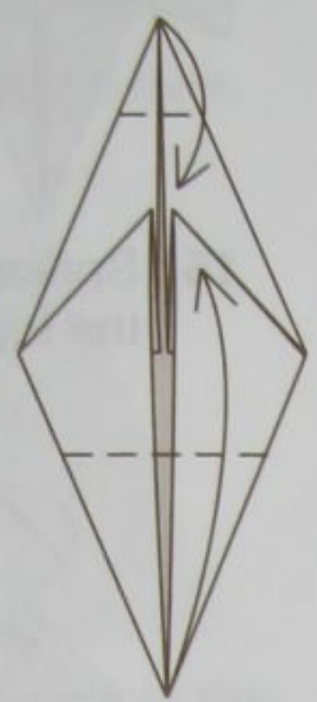
# Skunk

by Marc Kirschenbaum ©1994

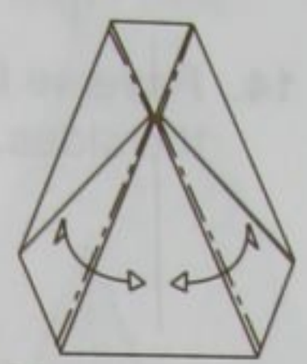




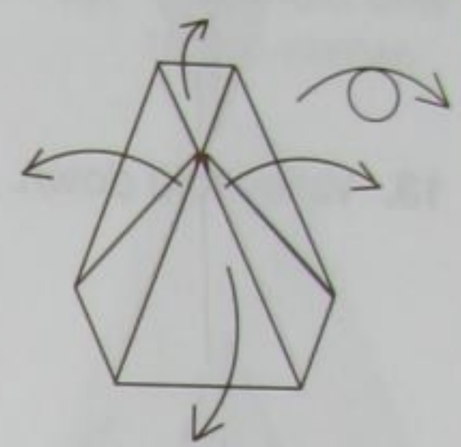
1. Rabbit ear both sides upwards.



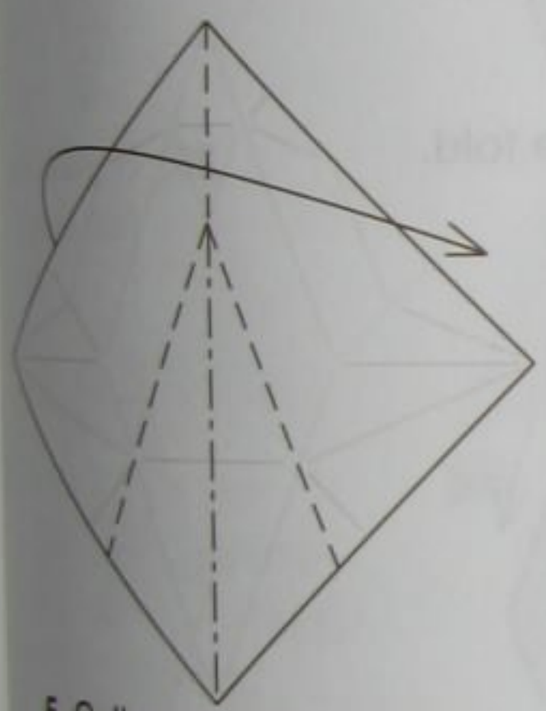
2. Valley towards the center flaps.



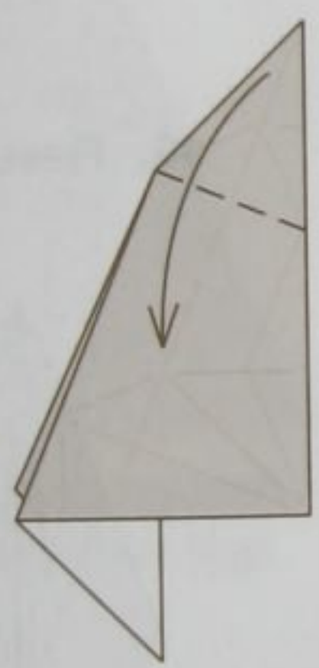
3. Precrease using mountain folds.



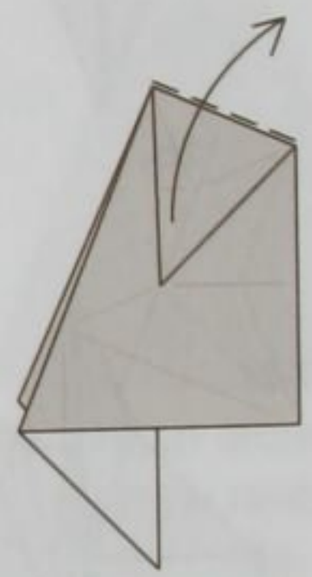
4. Unfold completely. Turn over



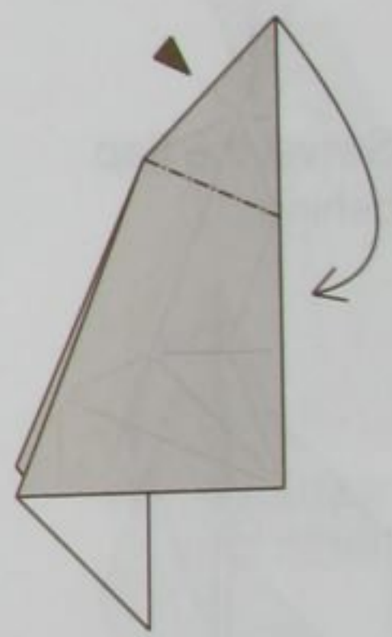
5. Collapse, using the existing creases as a guide.



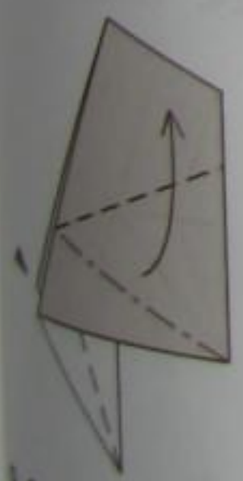
6. Valley to the intersection of creases.



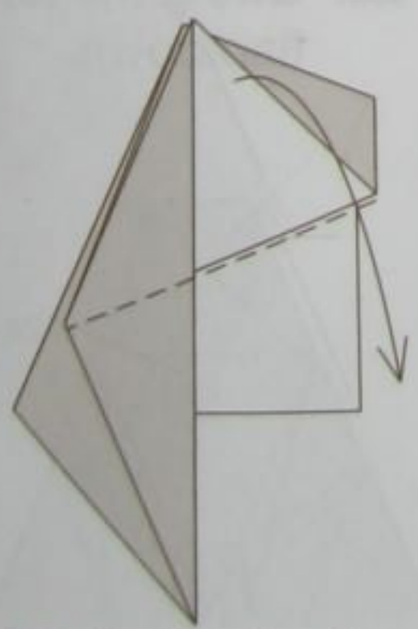
7. Unfold.



8. Reverse fold along the existing crease.



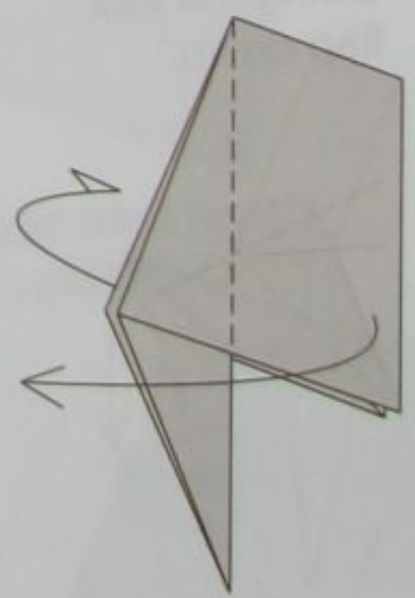
9. Swivel fold upwards.



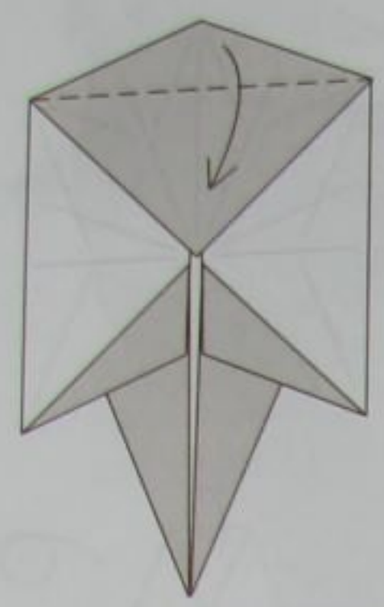
10. Swing the flap down.

9-10

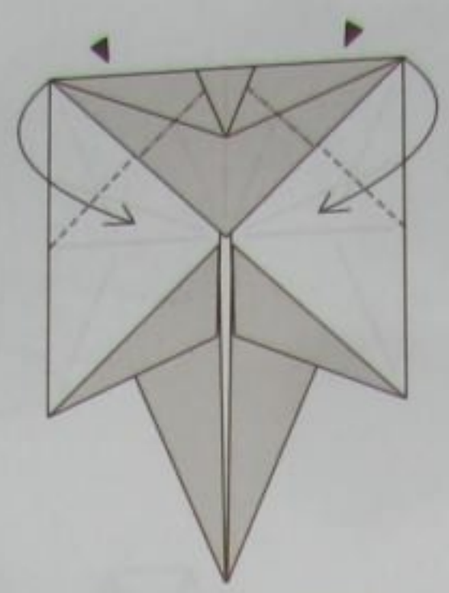
11. Repeat steps 9-10 behind.



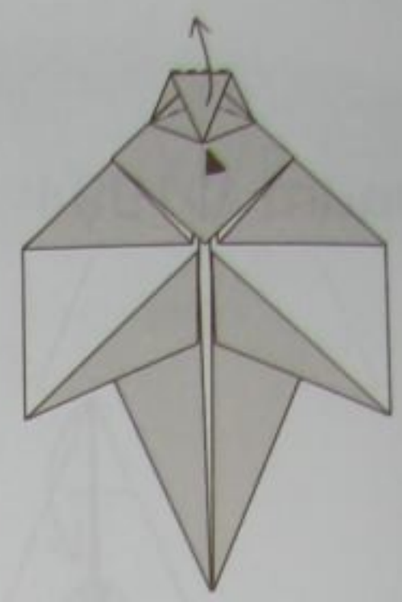
12. Swing over a flap at each side.



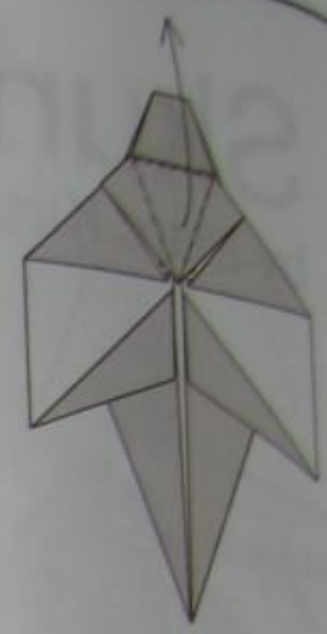
**13.** Valley fold down.



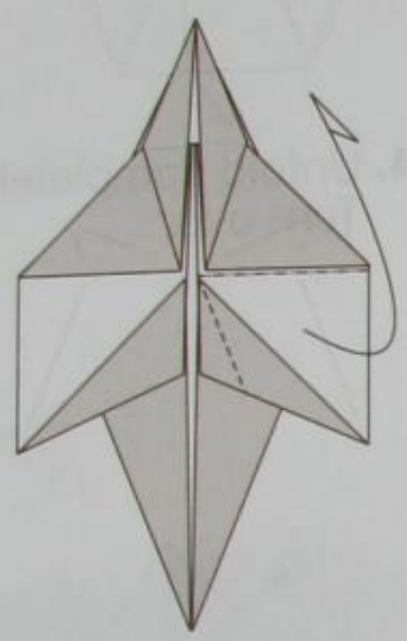
**14.** Reverse fold the sides.



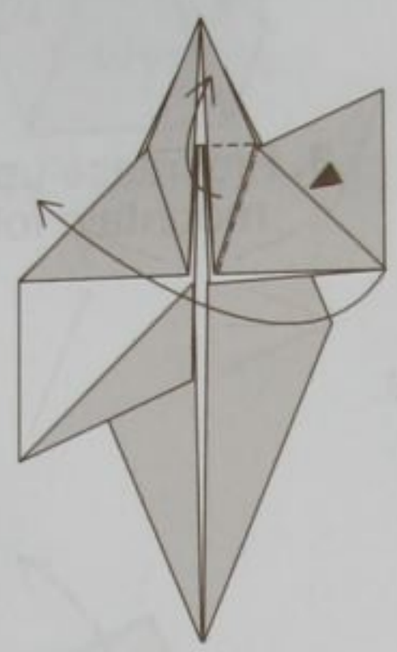
**15.** Spread squash the top.



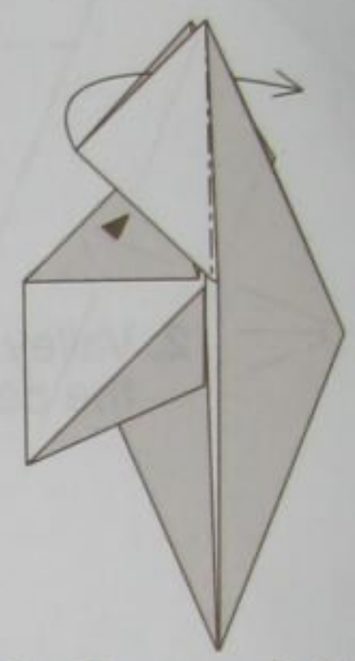
**16.** Petal fold upwards.



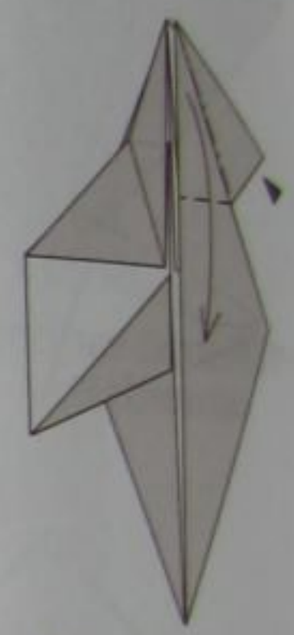
**17.** Swivel the flap behind.



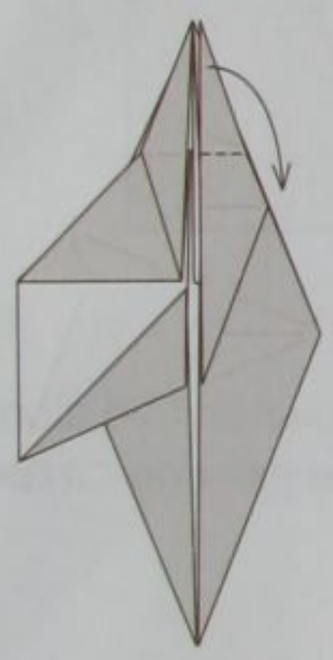
**18.**



**19.** Reverse fold.

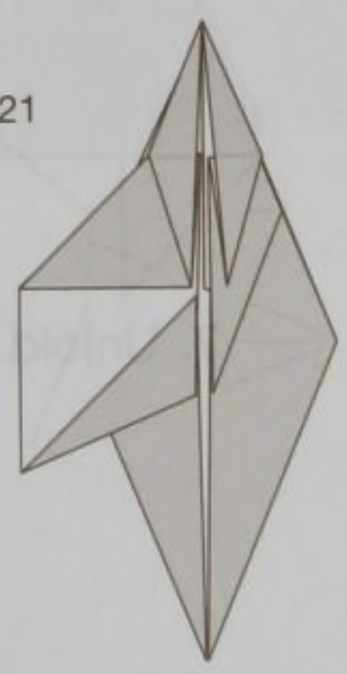


**20.** Squash the flap down.

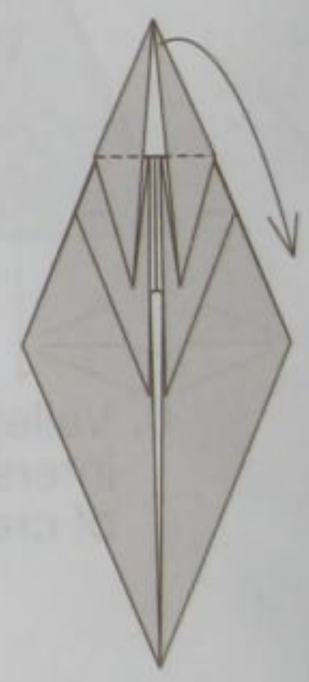


**21.** Swing the top flap down.

17-21

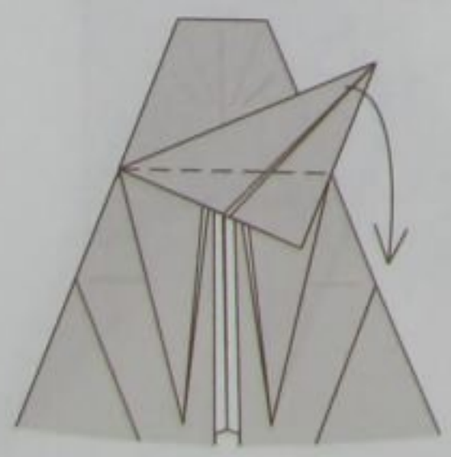


**22.** Repeat steps 17-21 in mirror image.

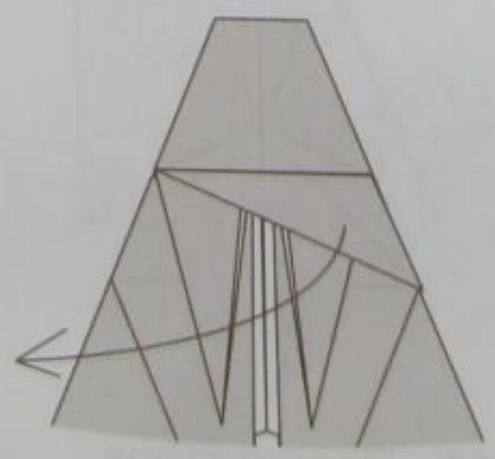


**23.** Swing the top flap down.

**24.** Valley fold up.

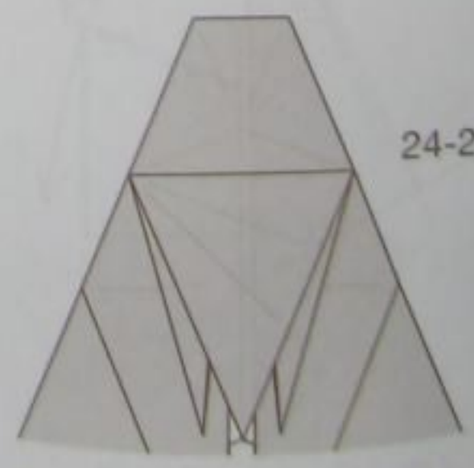


**25.** Valley fold down.



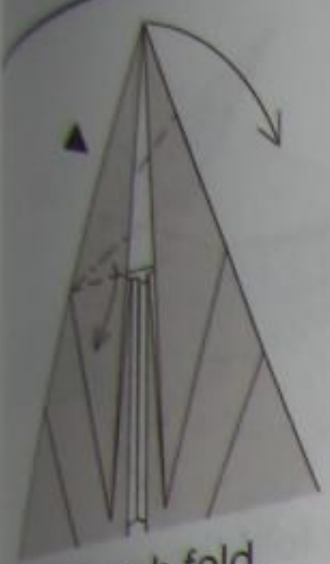
**26.** Unfold the pleat.

24-26

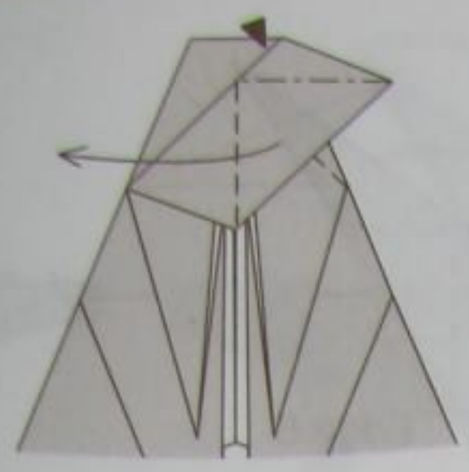


**27.** Repeat steps 24-26 in mirror image.

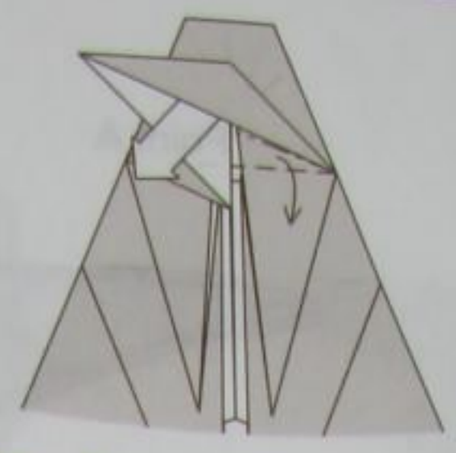
**28.** Swing the flap up.



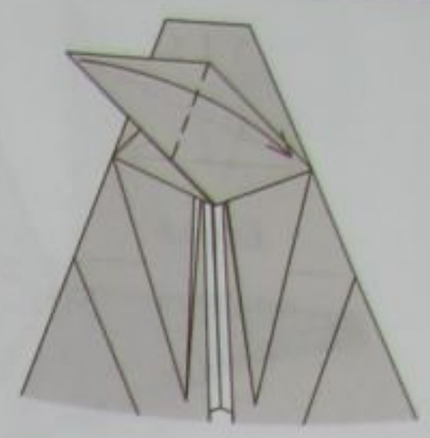
29. Squash fold.



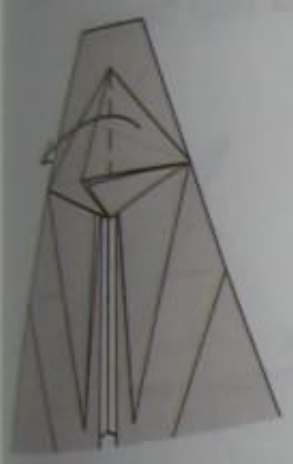
30. Squash over.



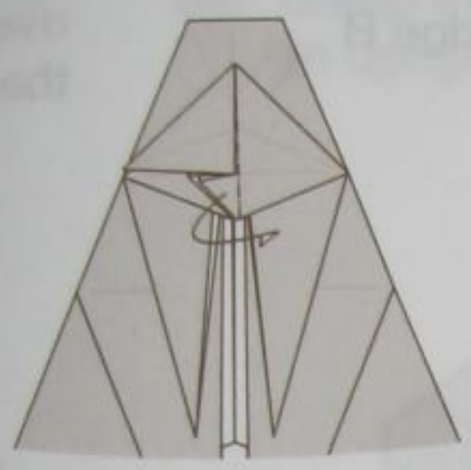
31. Pull out the single layer to match the other side.



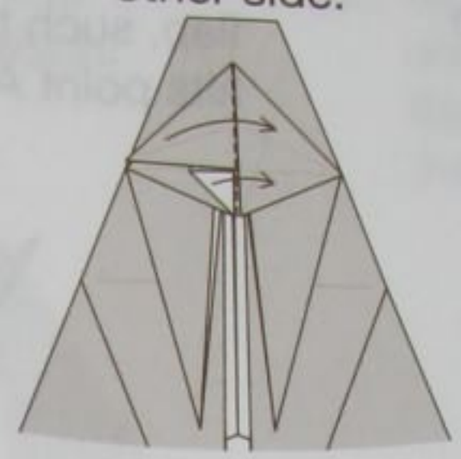
32. Valley fold over to the corner.



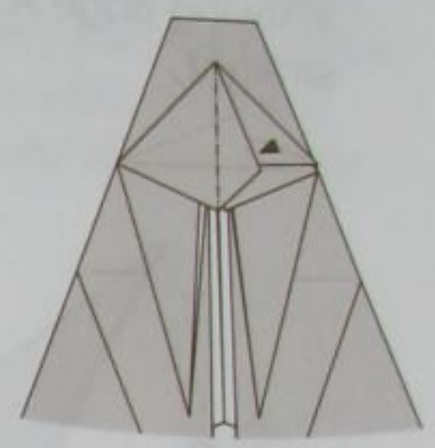
33. Valley fold over.



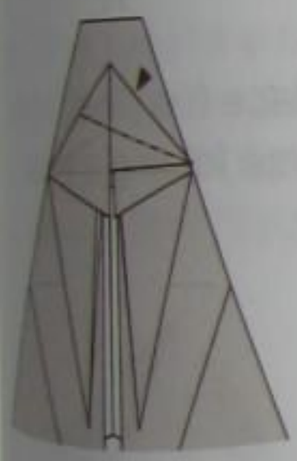
34. Mountain fold the small flap into the pocket.



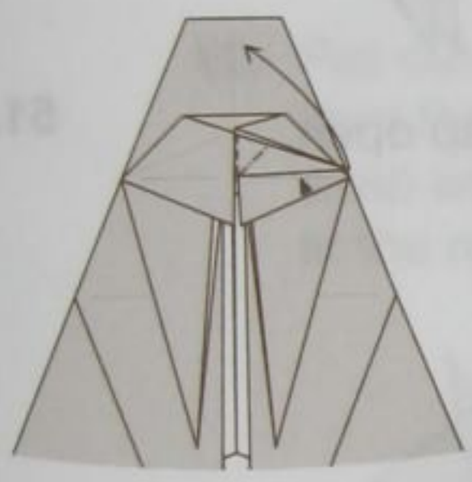
35. Swing over two flaps.



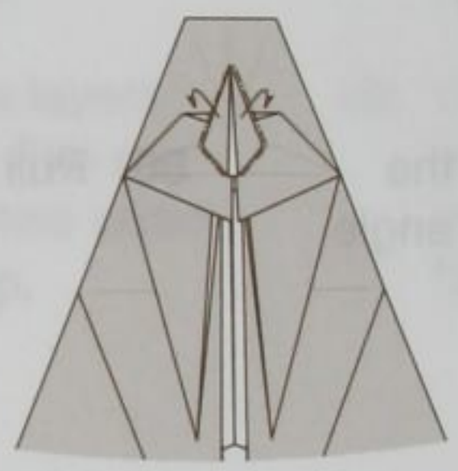
36. Reverse fold the flap through to match the other side.



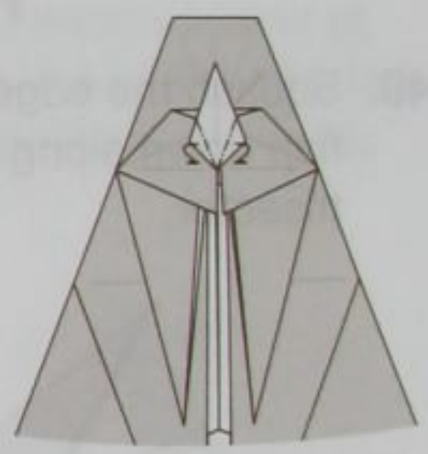
37. Sink the center flap, being careful not to let it's pleats come undone.



38. Spread squash the center flap.



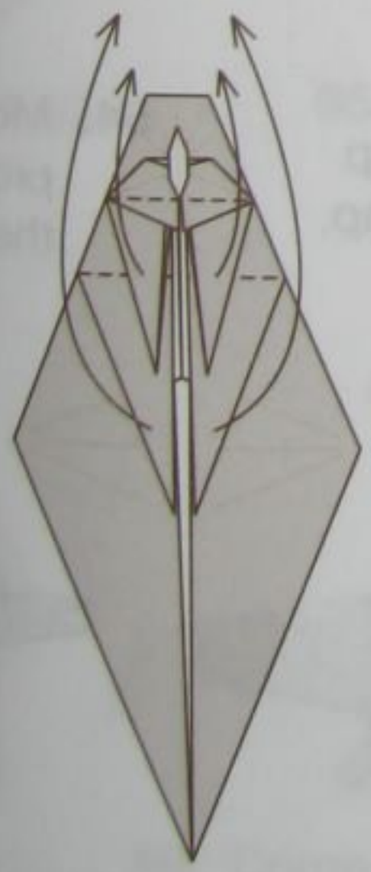
39. Wrap around a single layer at each side.



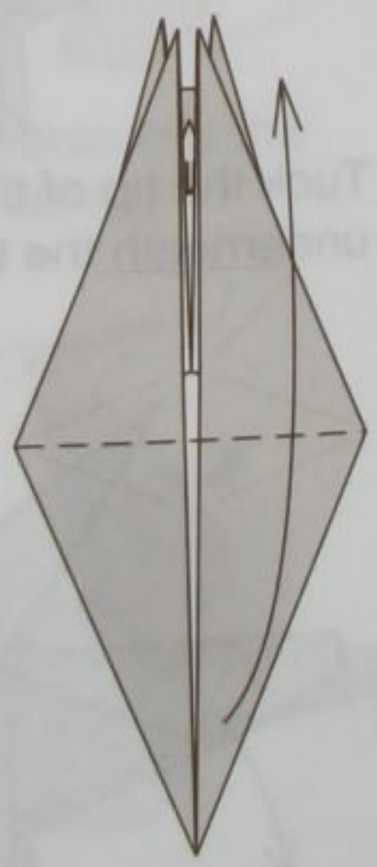
40. Mountain fold the lower edges.



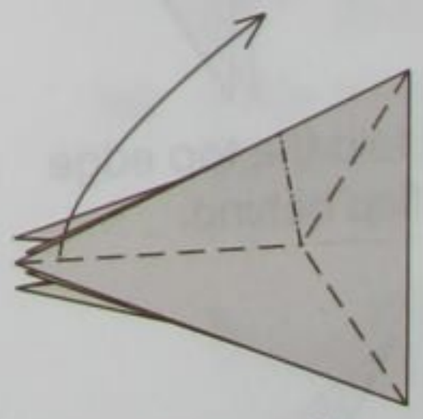
41. Mountain fold the sides.



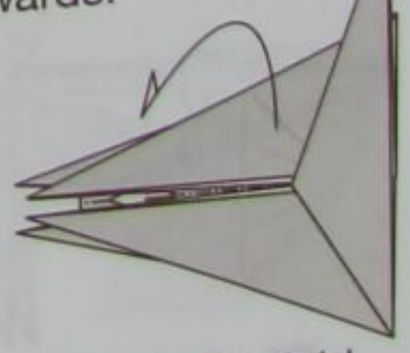
42. Swing the indicated sets of flaps upwards.



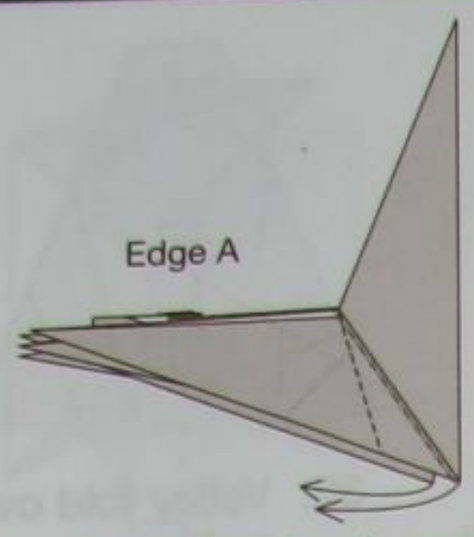
43. Valley fold the flap upwards. Rotate the model 1/4 turn.



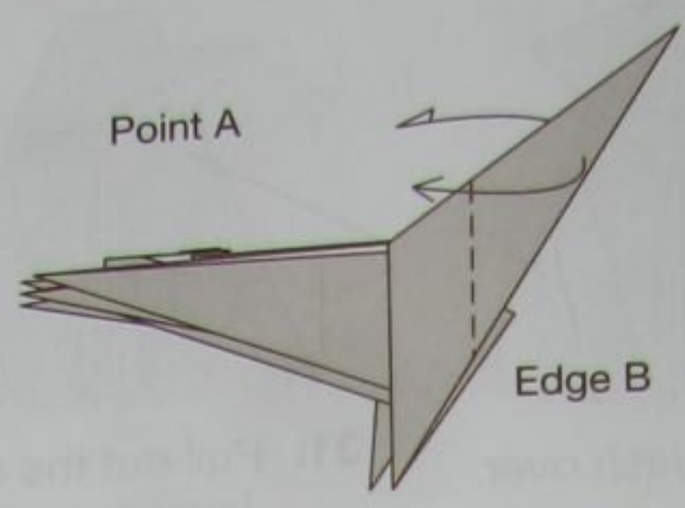
44. Rabbit ear the flap upwards.



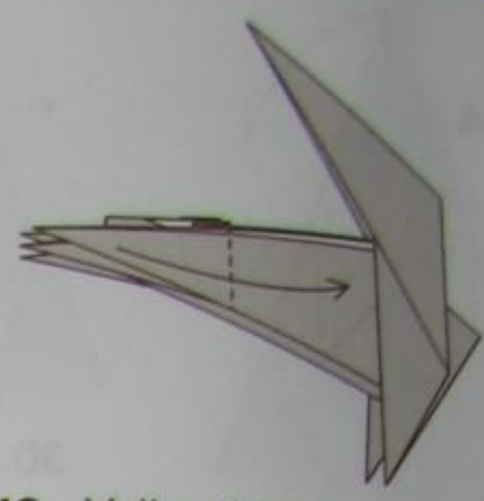
45. Mountain fold the model in half.



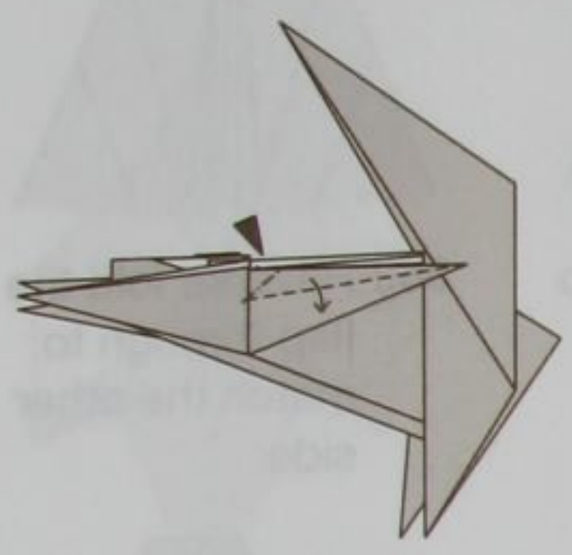

**46.** Crimp the back section, allowing edge A to lie straight.



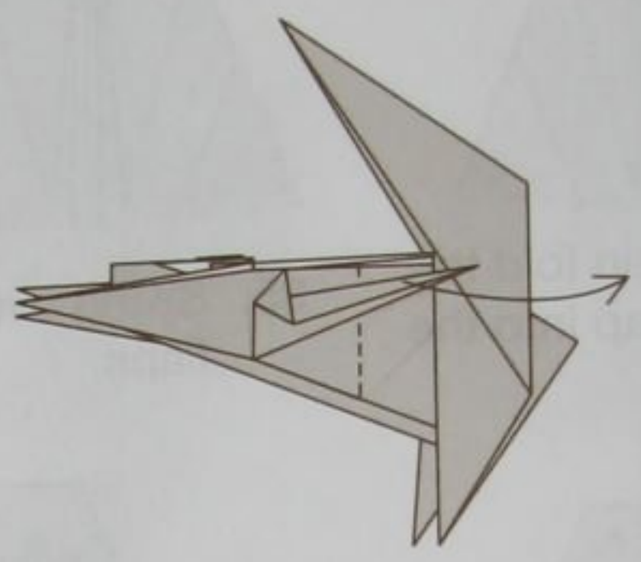

**47.** Outside reverse fold the flap, such that edge B hits point A.



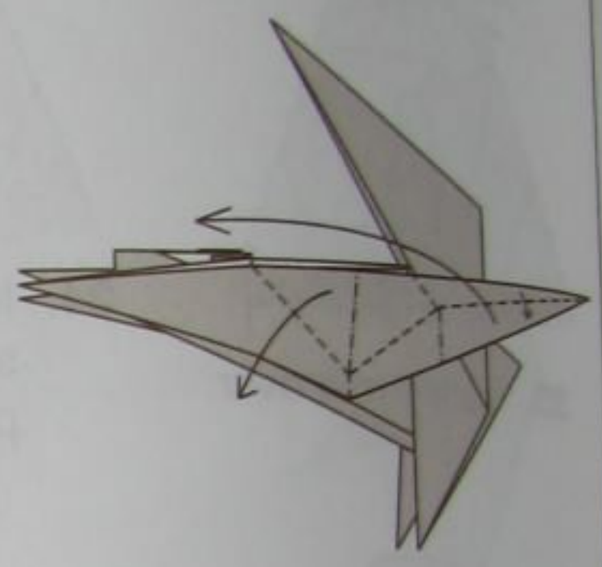
**48.** Valley fold the top flap over, at the point where the head flap begins.



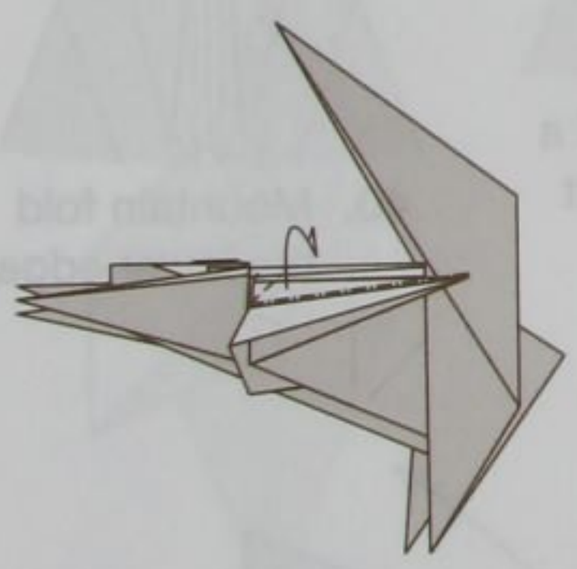
**49.** Squash the edge of the flap down along the angle trisector.



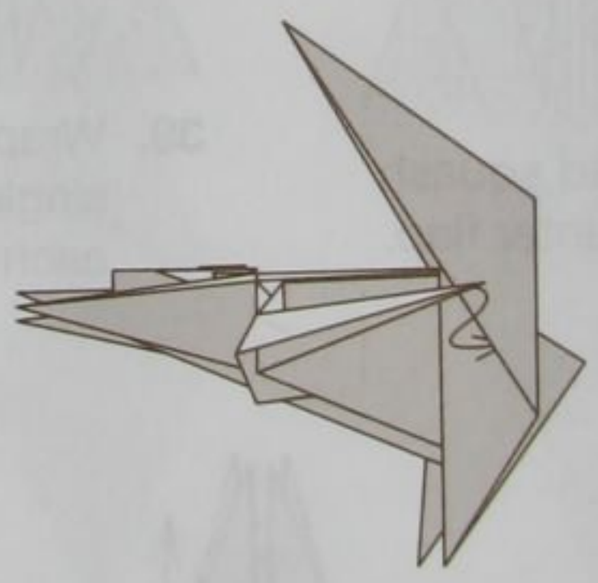
**50.** Pull the flap open.



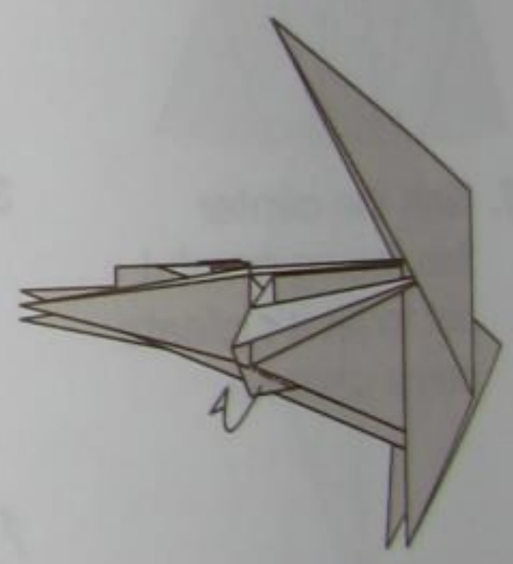
**51.** Replace the pleat, while reverse folding the top layer.



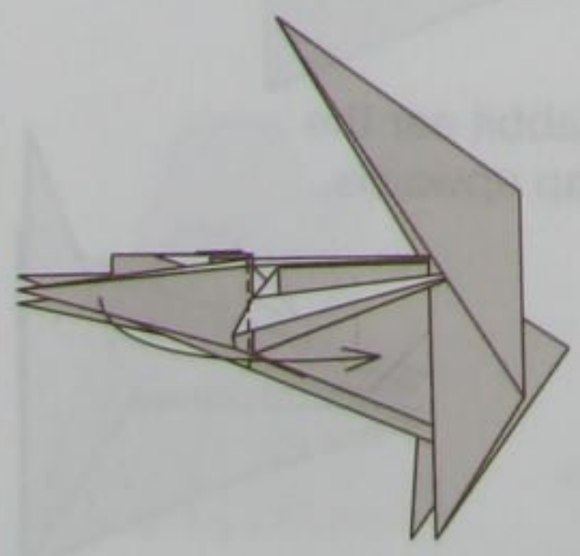
**52.** Swivel fold the top edge of the flap behind.



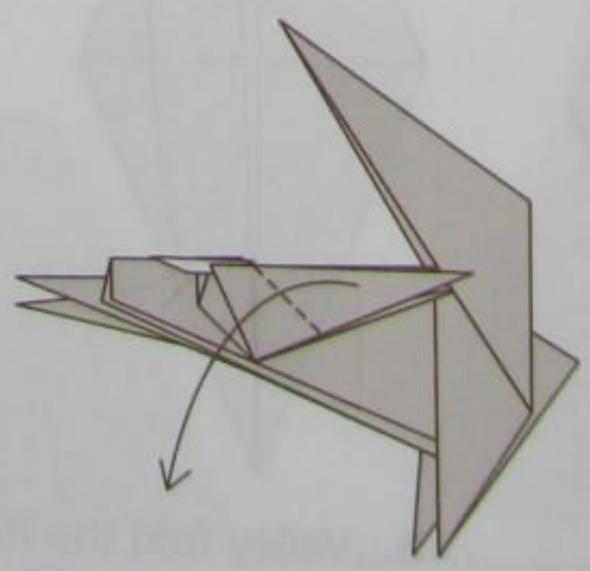
**53.** Tuck the tip of the flap underneath the tail flap.



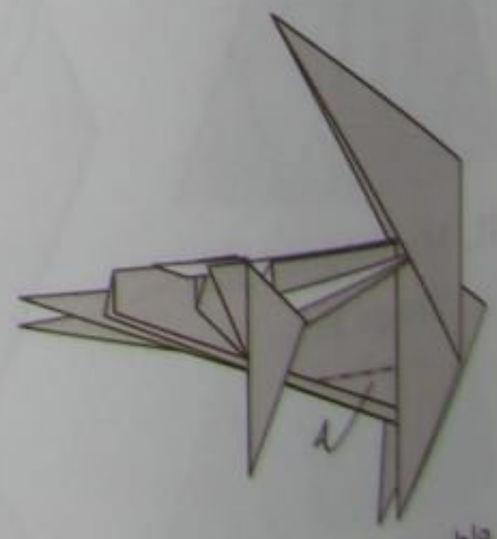
**54.** Mountain fold the protruding section into the model.



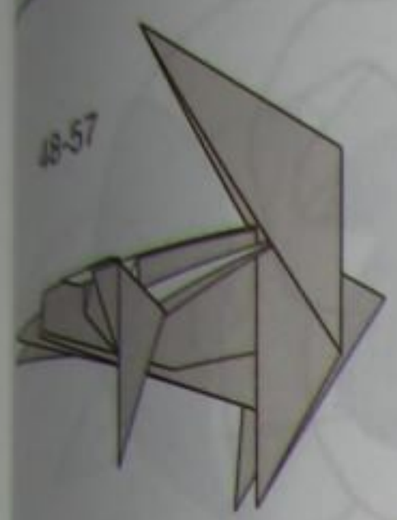
**55.** Swing over one flap.



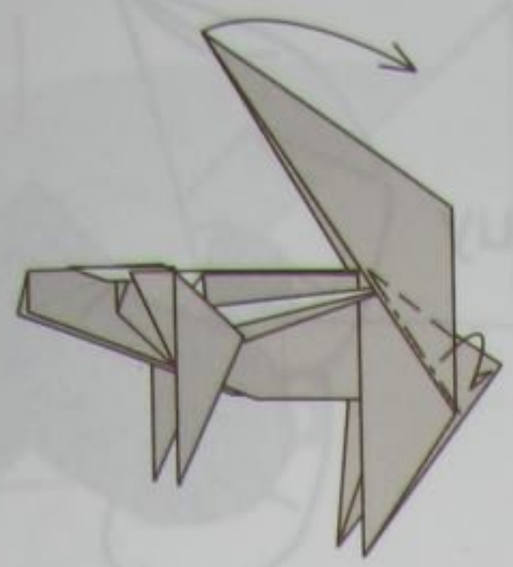
**56.** Valley fold the flap down.



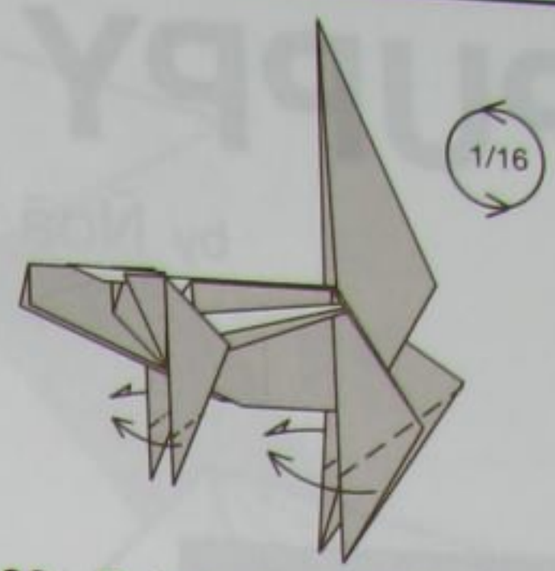
**57.** Swivel fold the double layered side under.



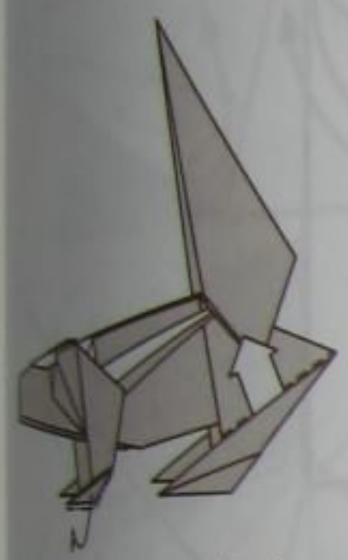

58. Repeat steps 48-57 behind.



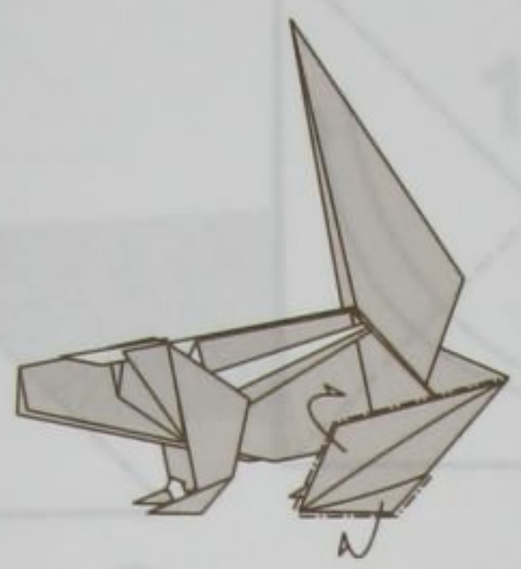
**59.** Crimp the tail into an upright position.



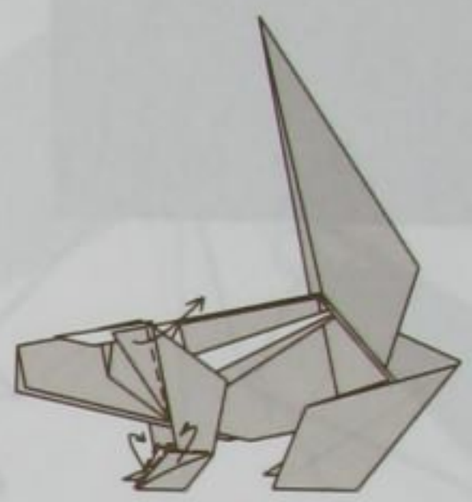

**60.** Rotate the model slightly, and valley fold the bottom flaps forward, ensuring the model stands evenly.



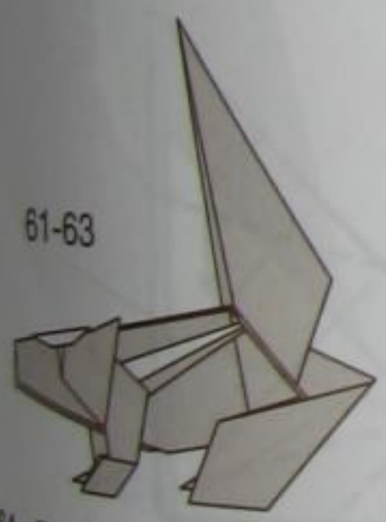
61. Wrap around a layer at the front foot flap and pull out paper at the rear foot flap.



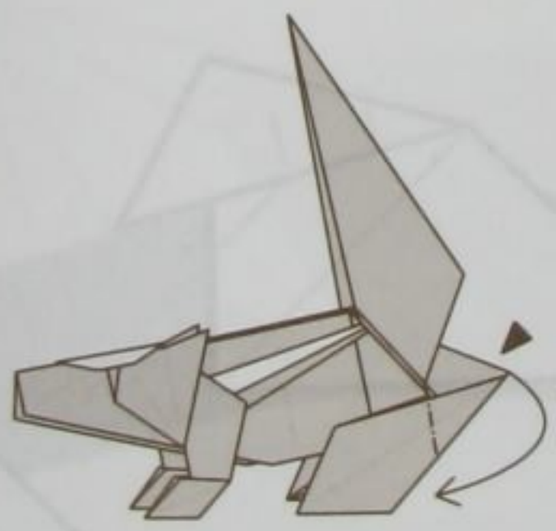
**62.** Pull out all the layers from the front flap and wrap around two layers at the rear flap.



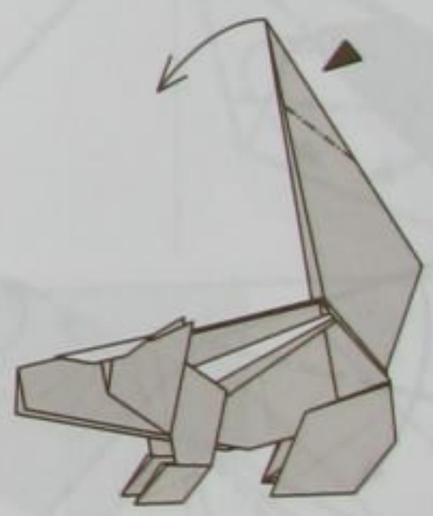
**63.** Wrap around a layer at each side of the foot flap and swing over the ear flap.




64. Repeat steps 61-63 behind.

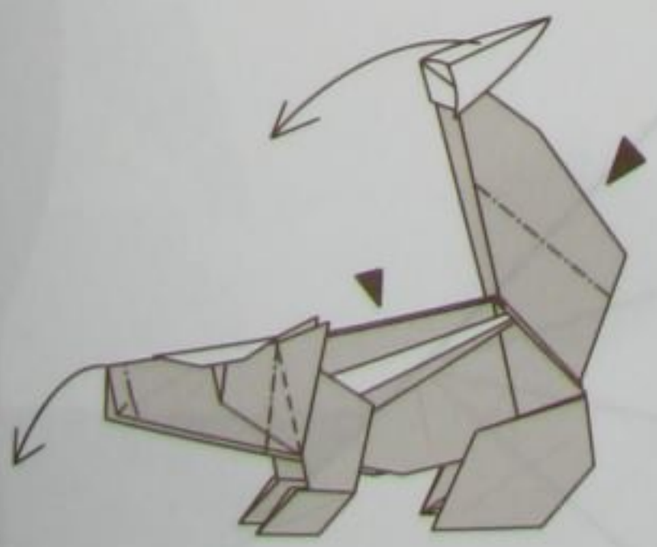


**65.** Reverse fold the center flap.

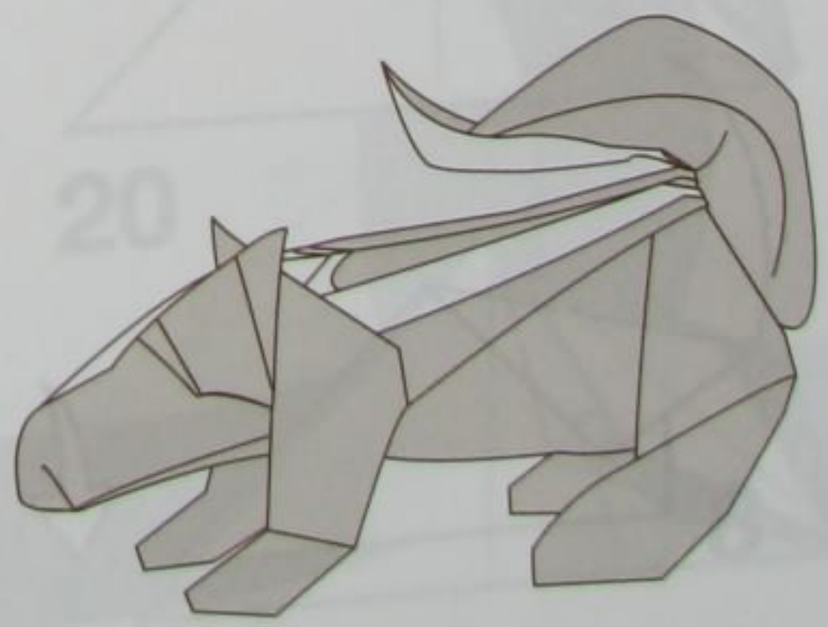


**66.** Softly reverse fold the tip of the tail flap.

67. Softly wrap around the tip of the flap.



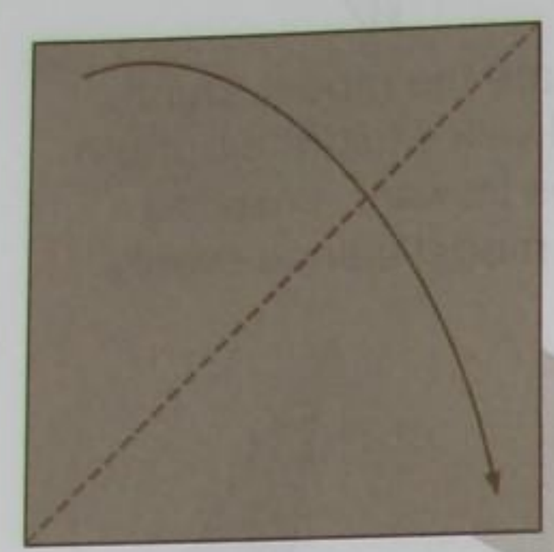
**68.** Crimp the head down and shape the body and tail to taste.



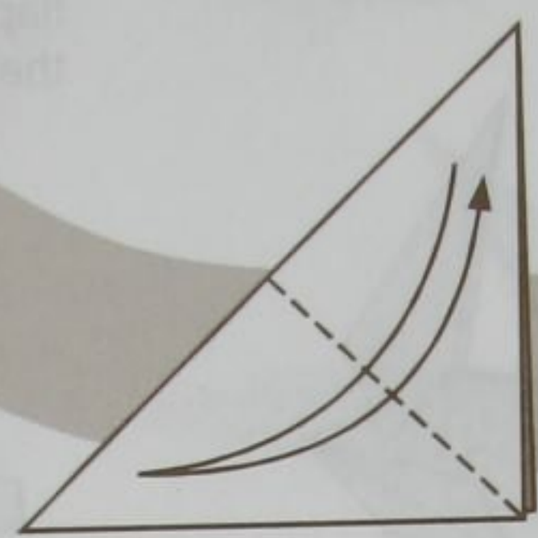
**69.** Completed Skunk
©1994 Marc Kirschenbaum

# PUPPY

by Ñoã Baù Huy



1



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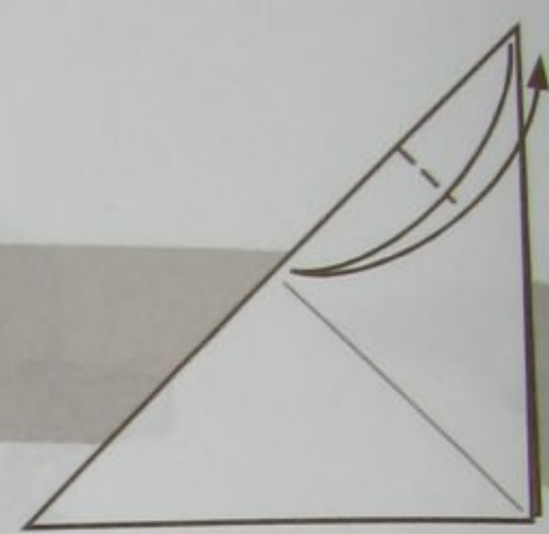

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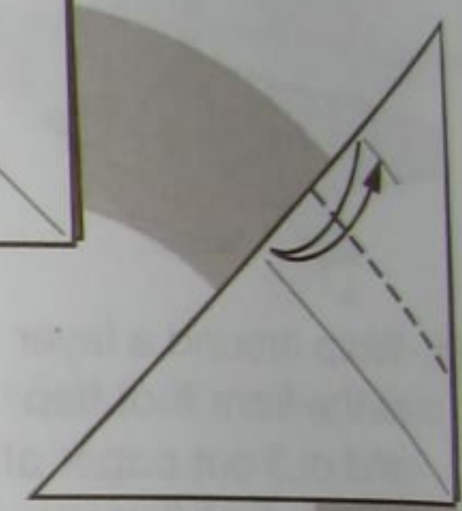
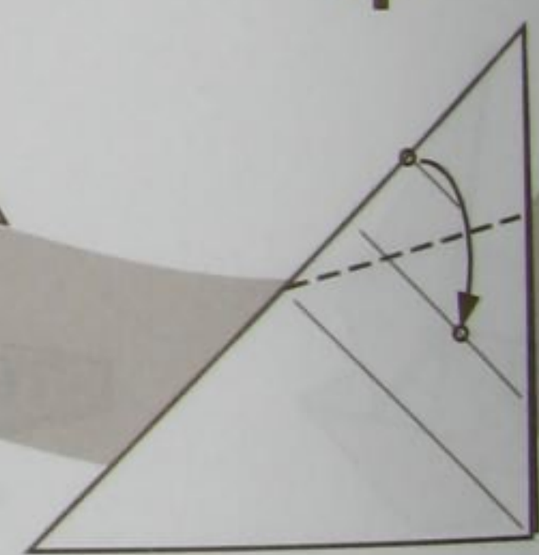


4



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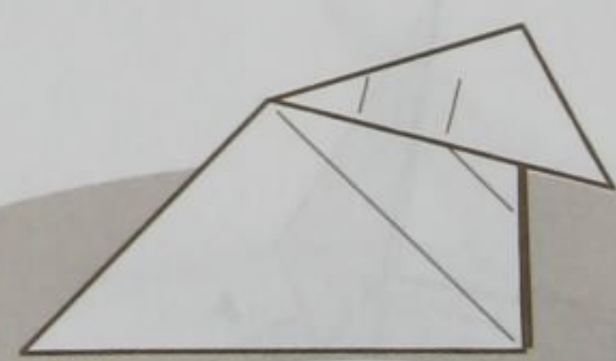

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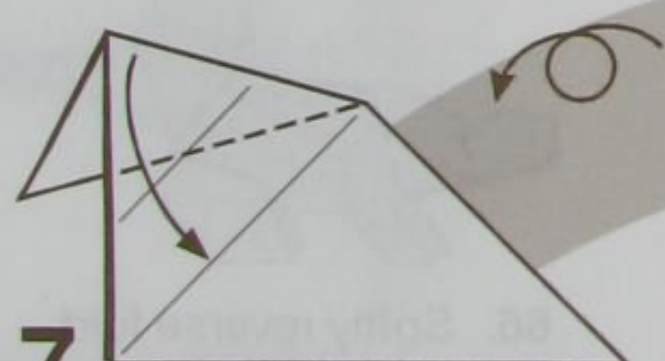

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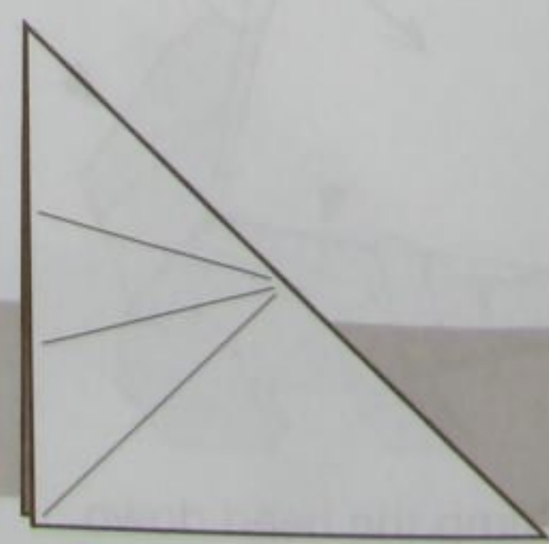

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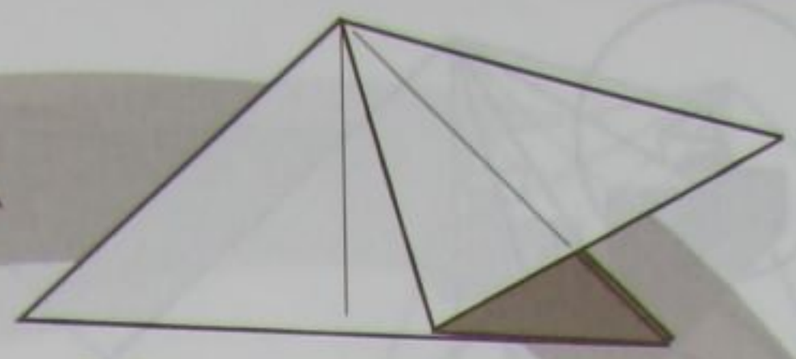

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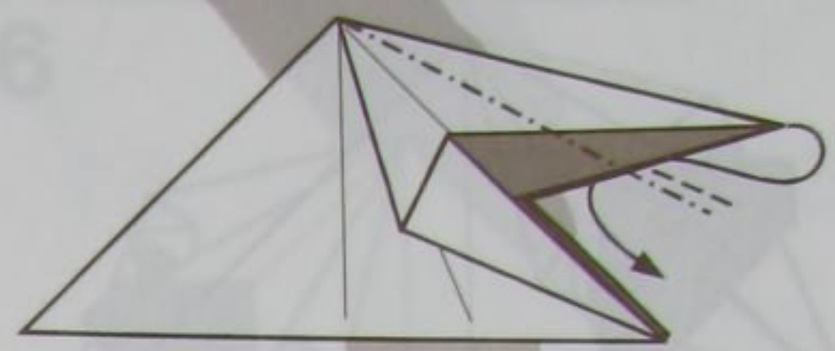

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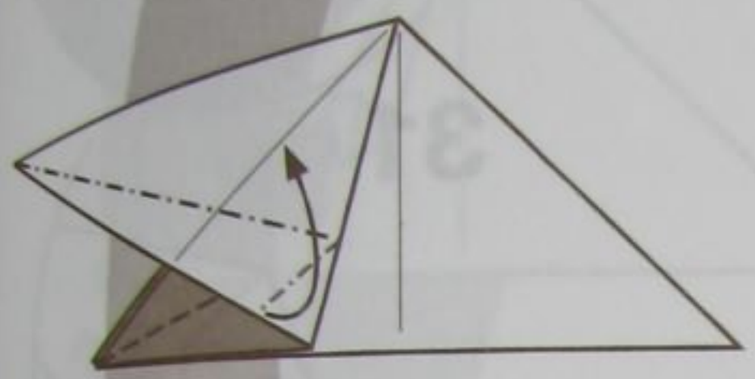

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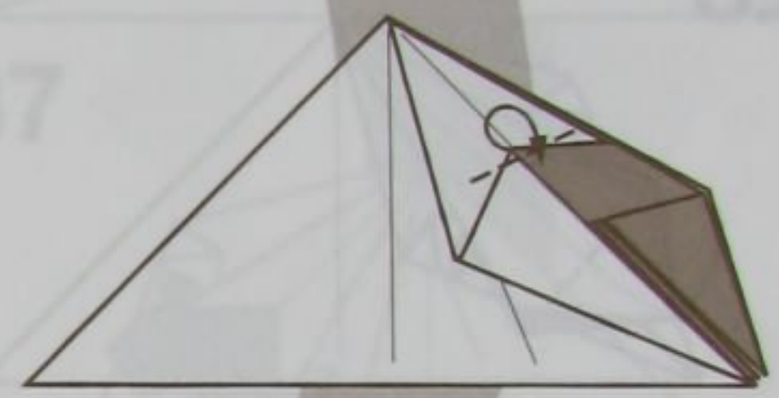

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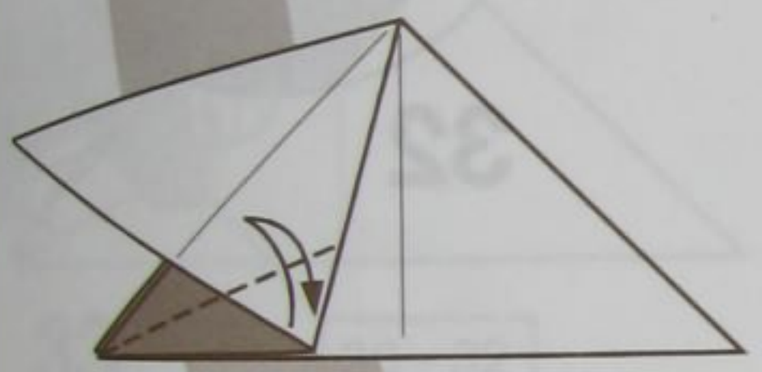

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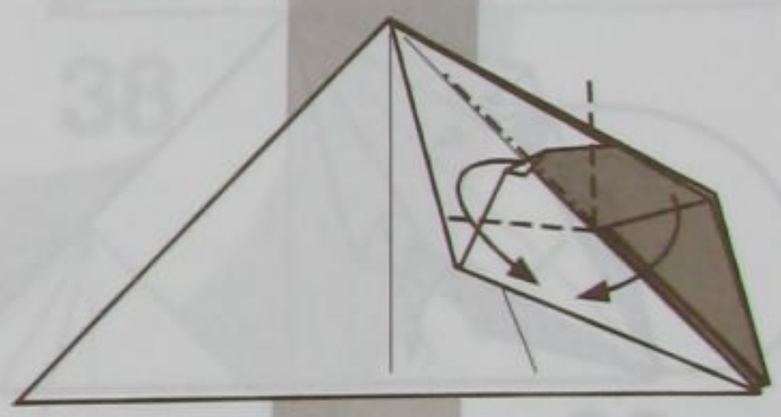

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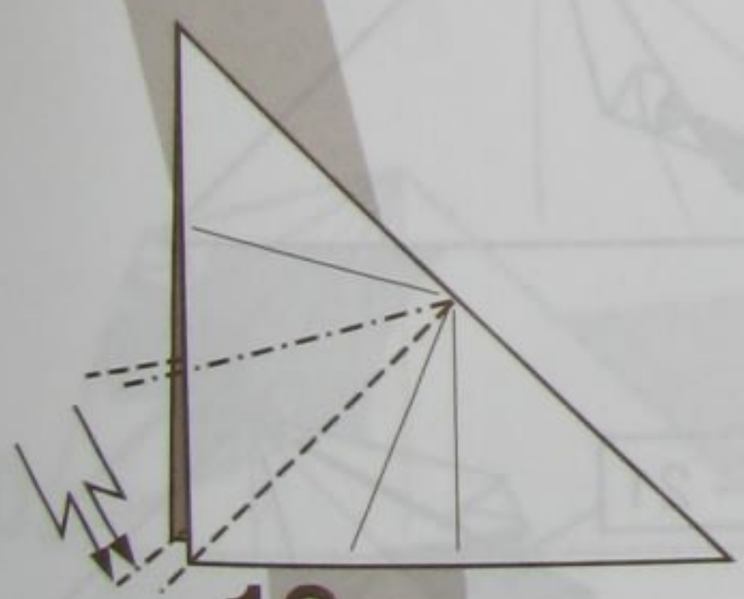

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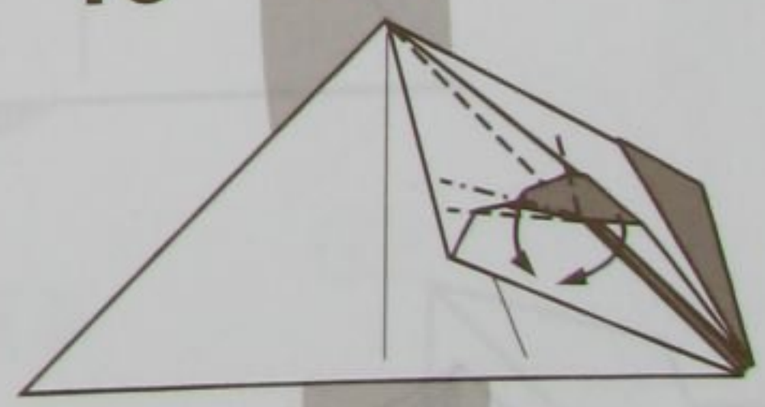

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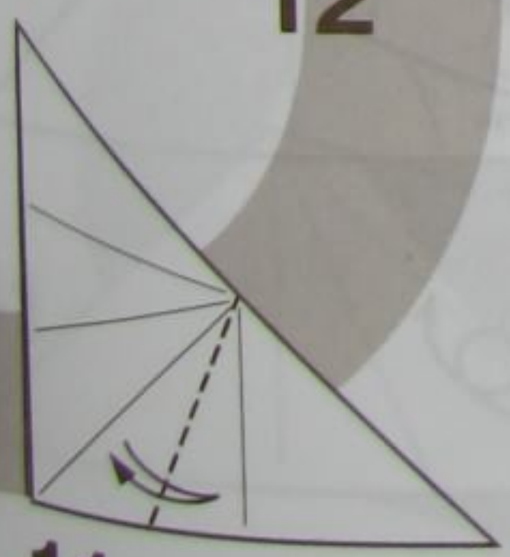

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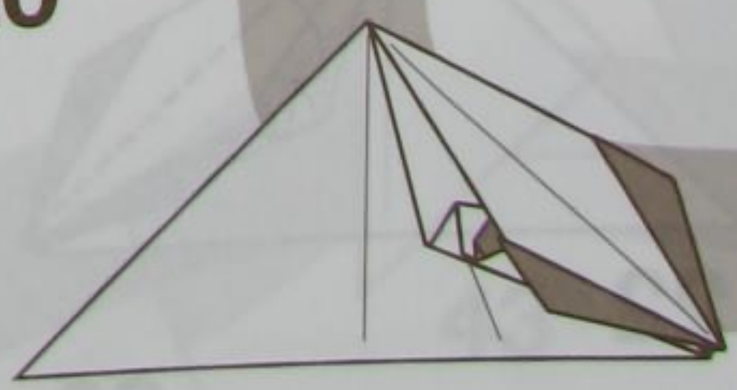

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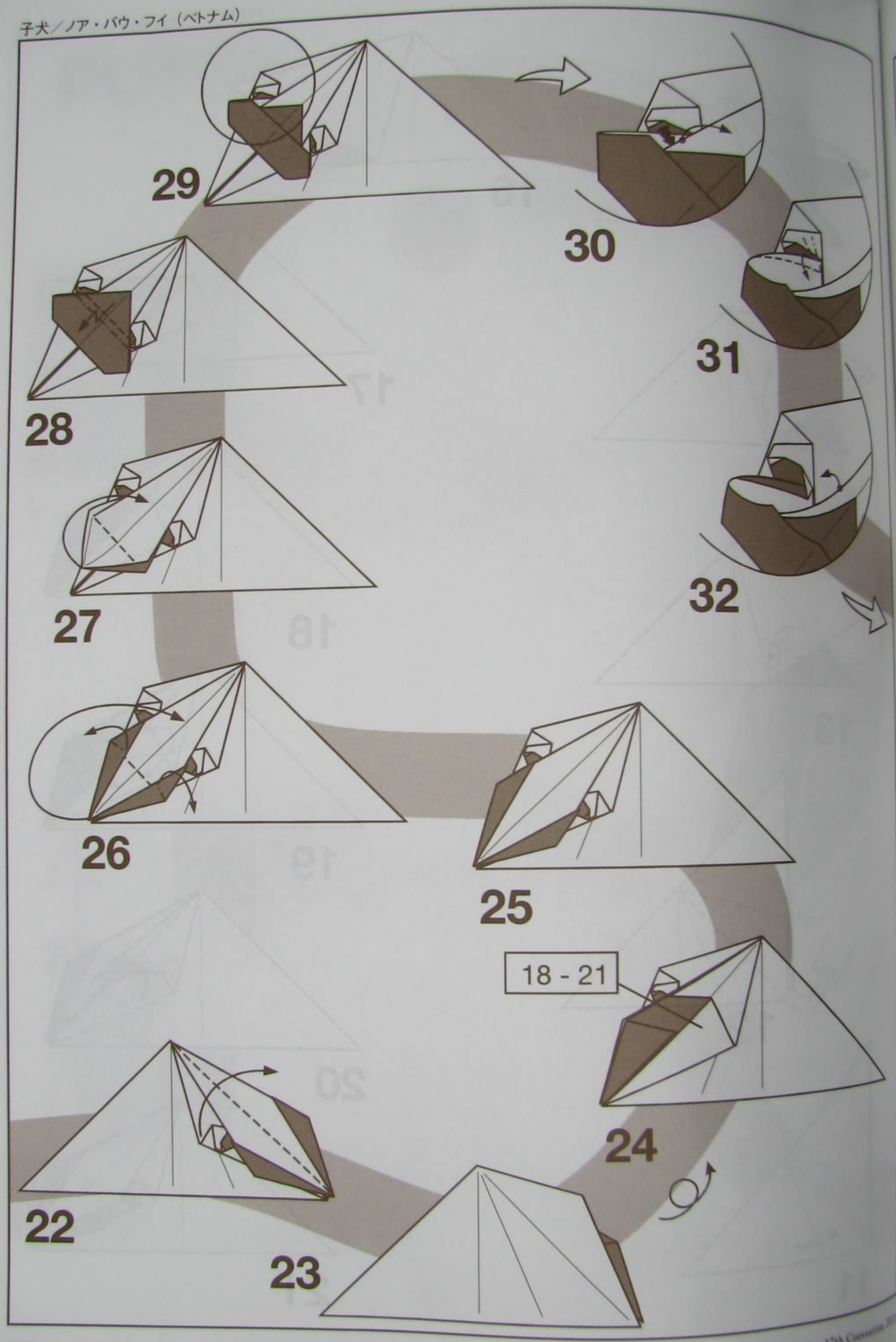
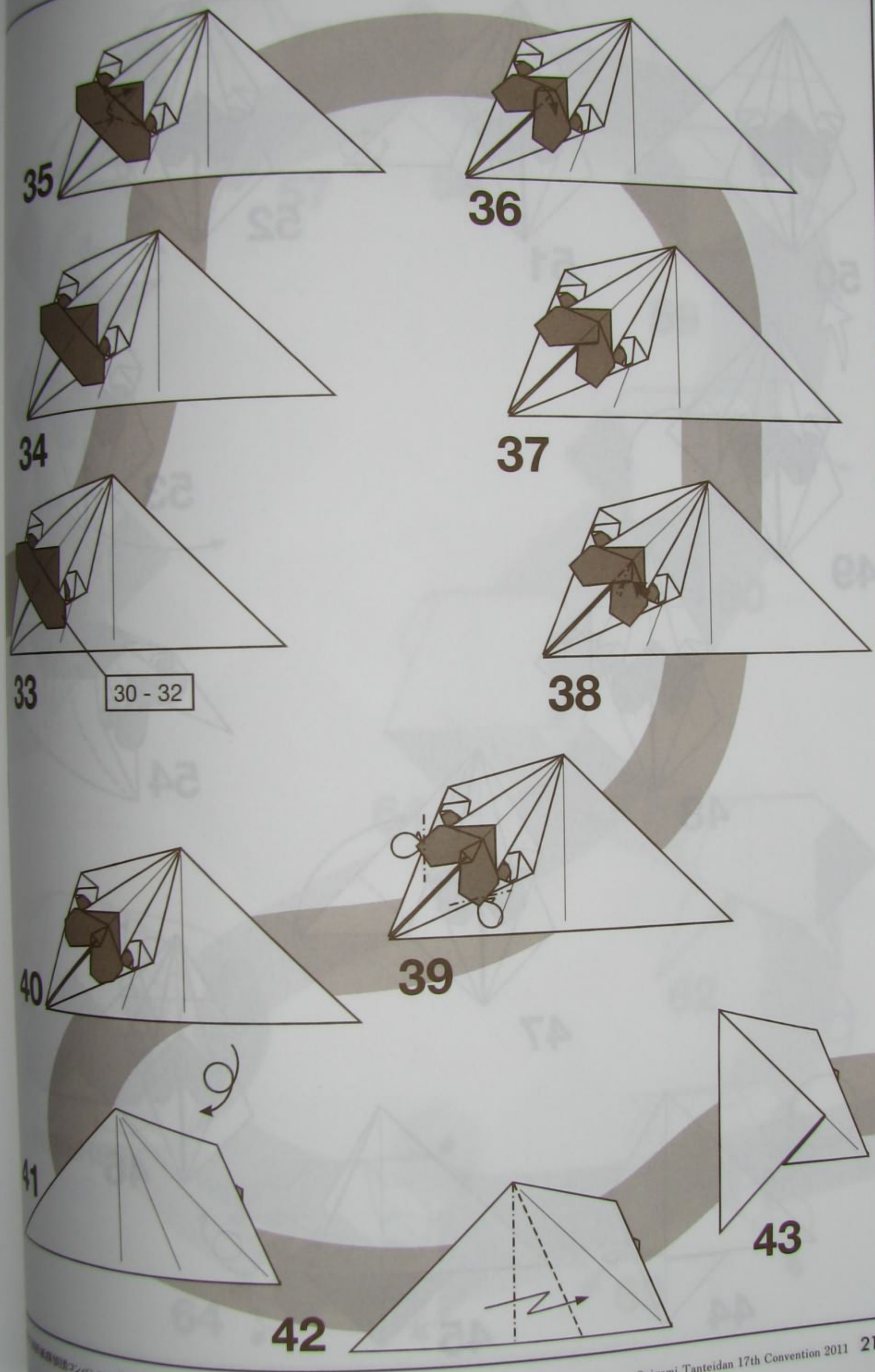
子犬／ノア・バウ・フイ（ベトナム）

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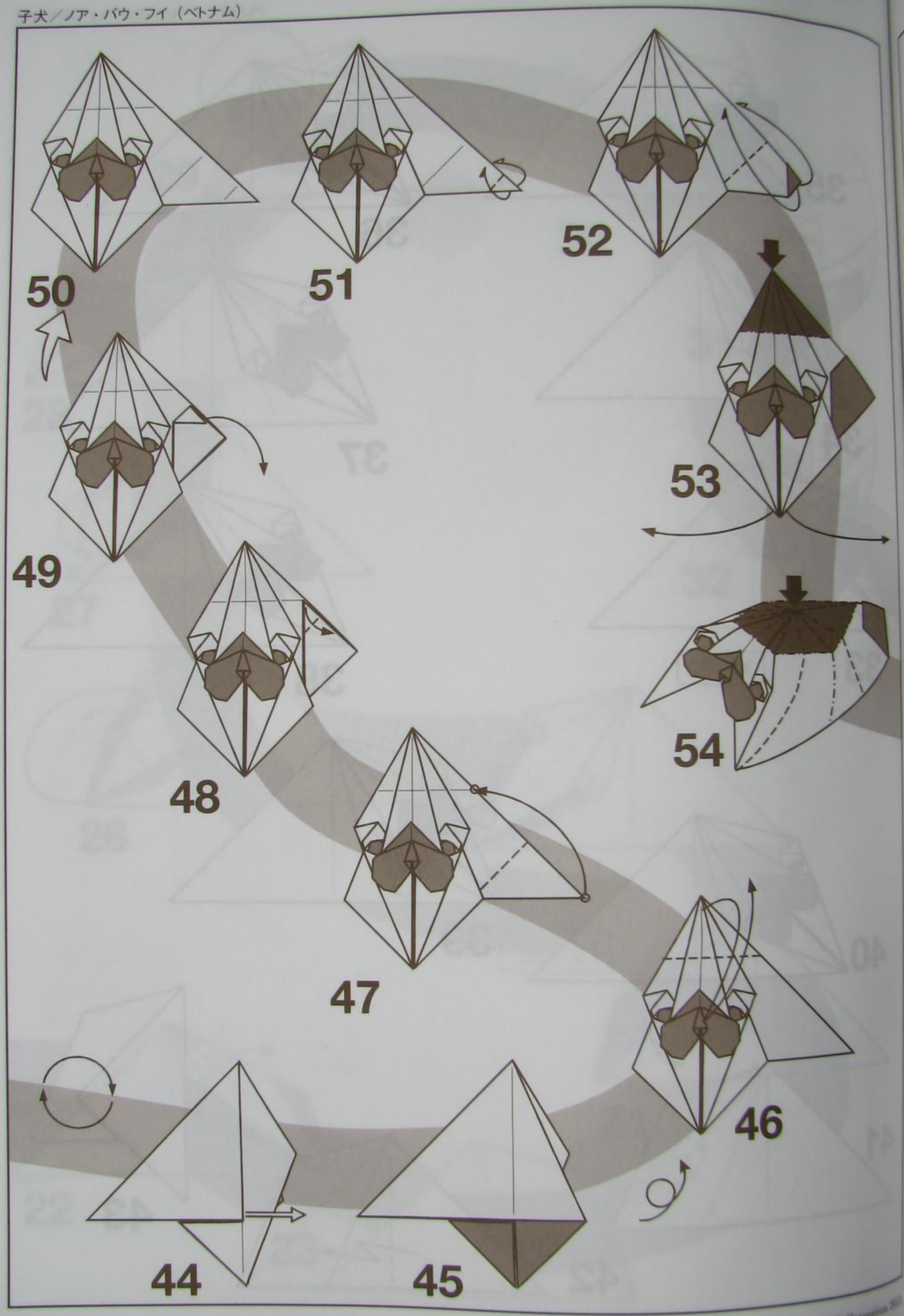
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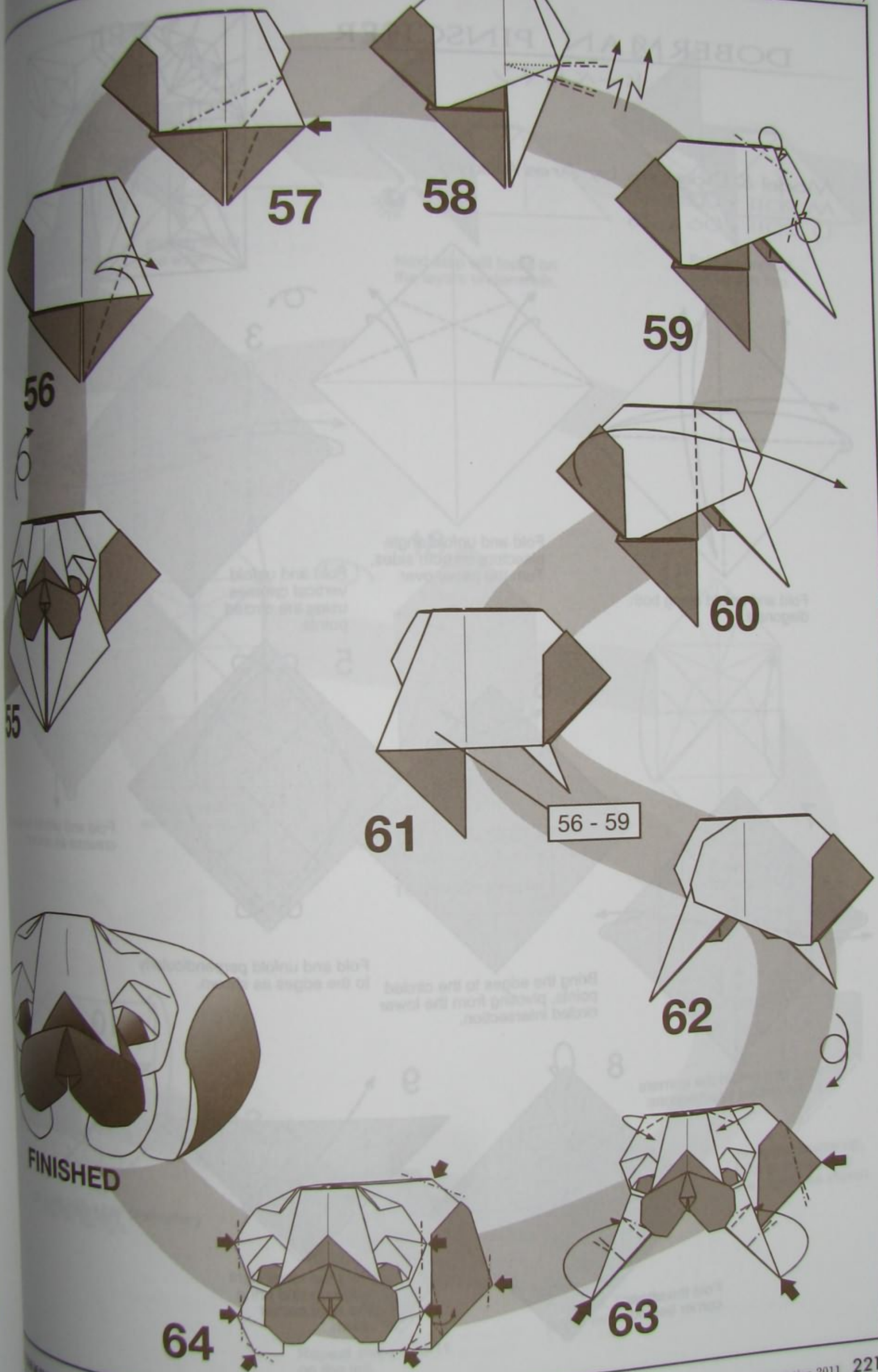
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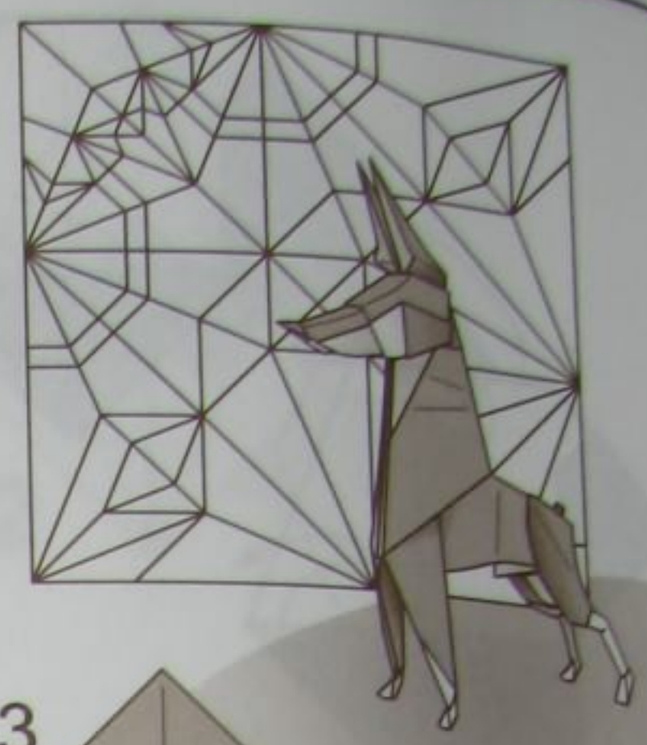
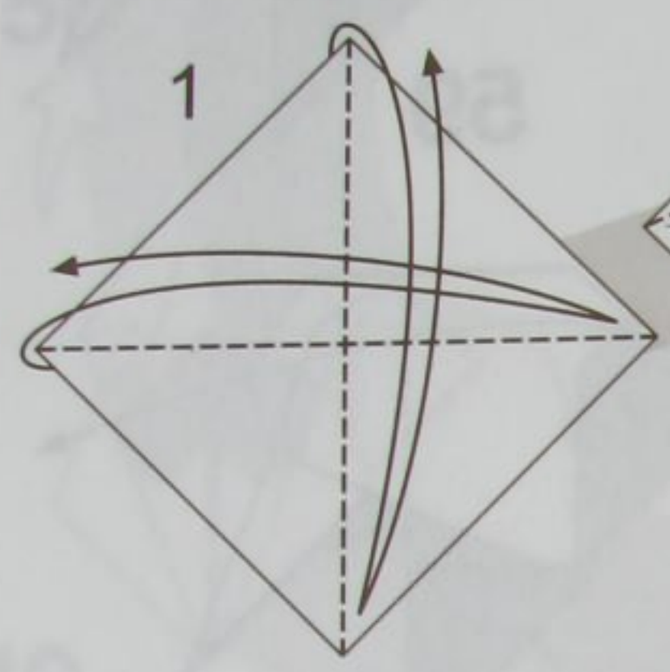
FINISHED

# DOBERMAN PINSCHER

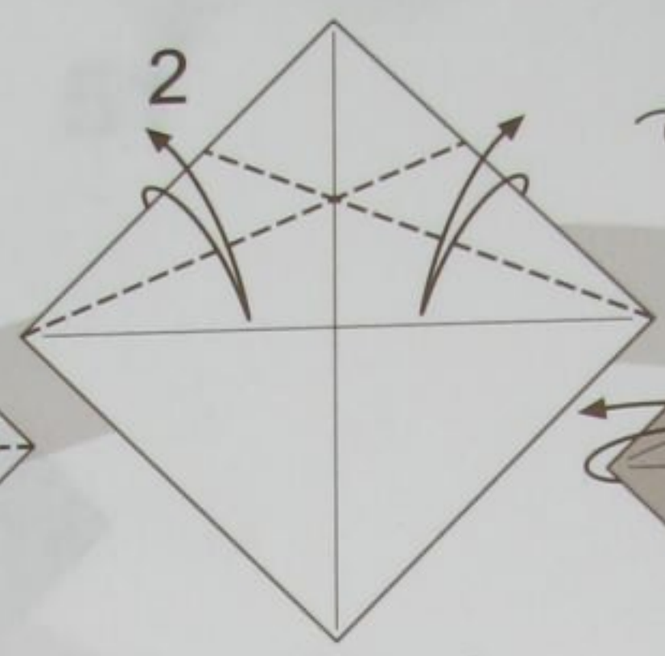
## ドーベルマン



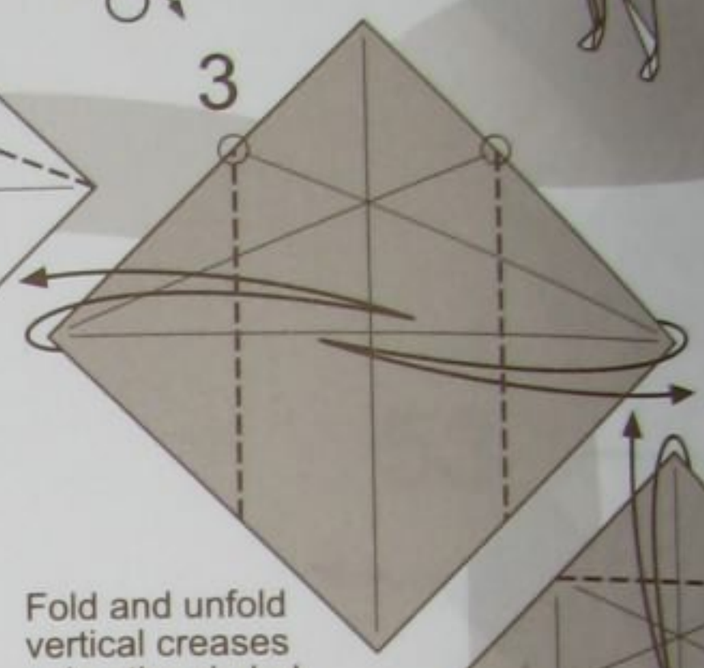
Model & Diagrams by Ares Alanya
M 2011 ▪ 02 ▪ xx
D 2011 ▪ 06 ▪ 23



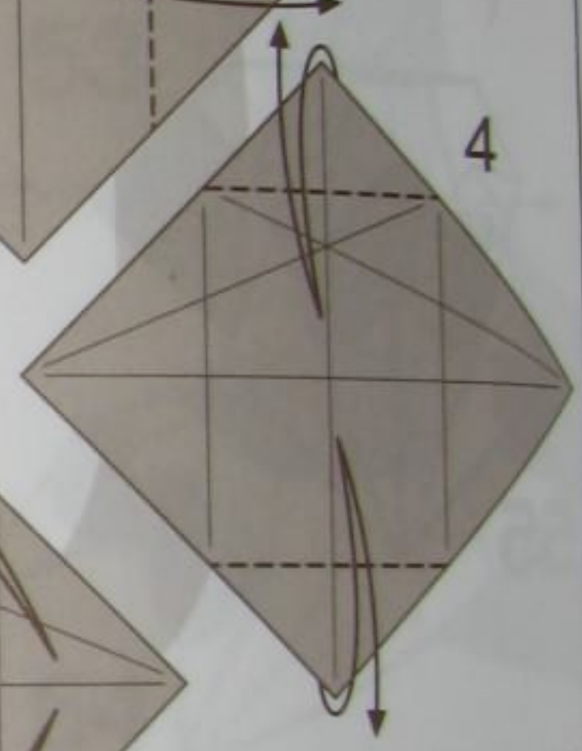

Fold and unfold along both diagonals.



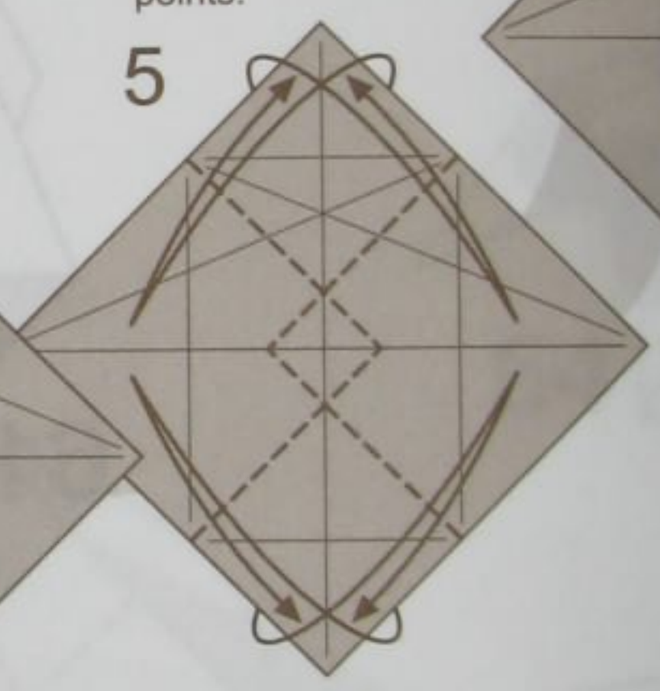

Fold and unfold angle bisectors on both sides. Turn the paper over.



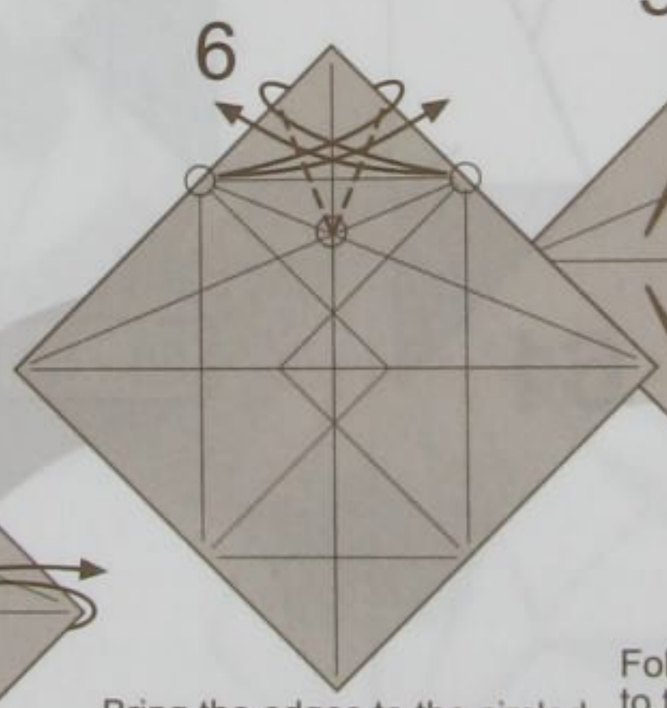

Fold and unfold vertical creases using the circled points.



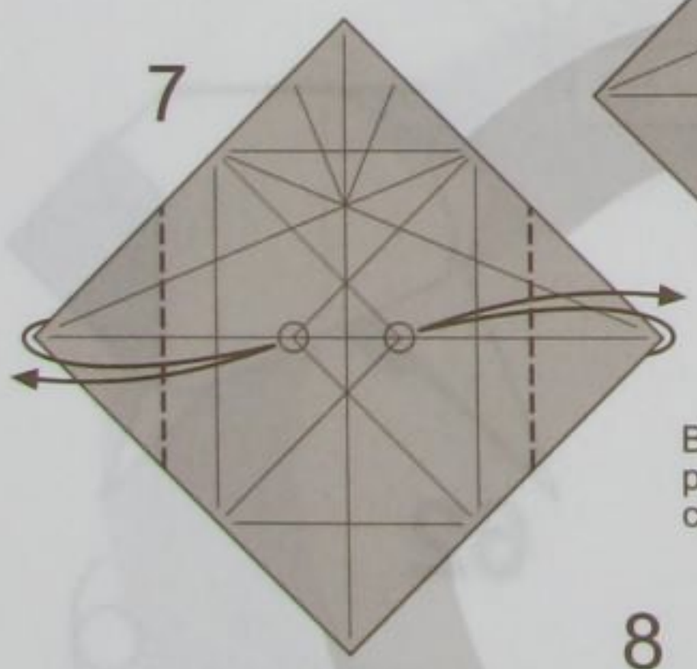

Fold and unfold horizontal creases as shown.



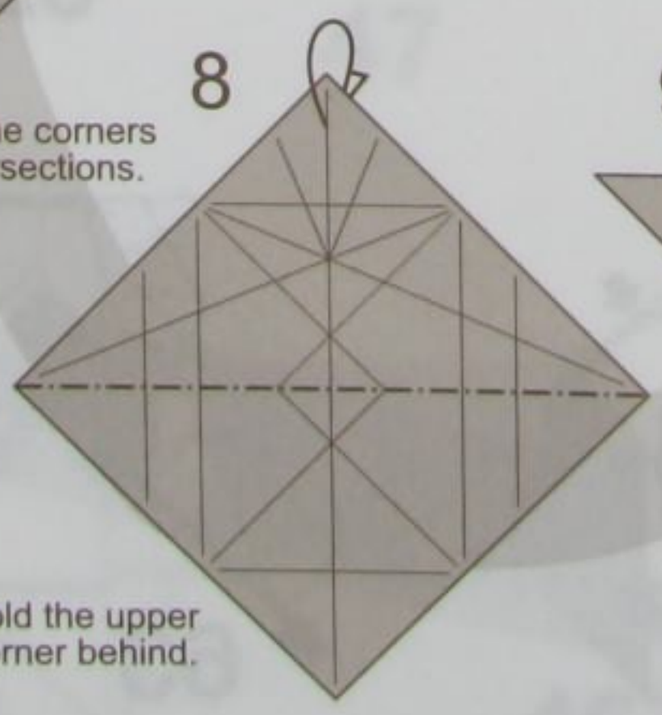

Fold and unfold perpendicularly to the edges as shown.



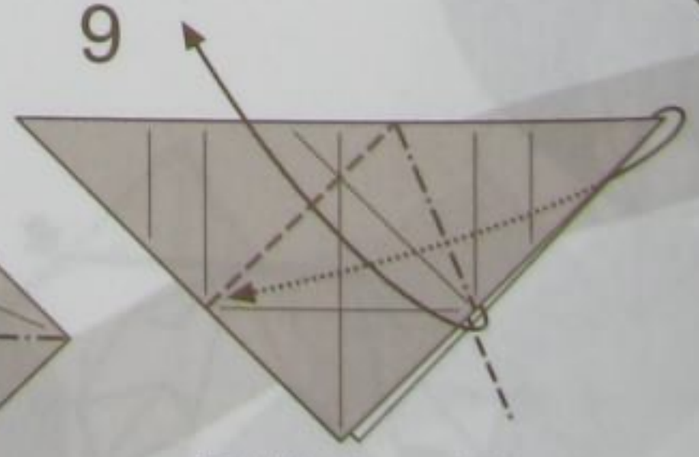

Bring the edges to the circled points, pivoting from the lower circled intersection.



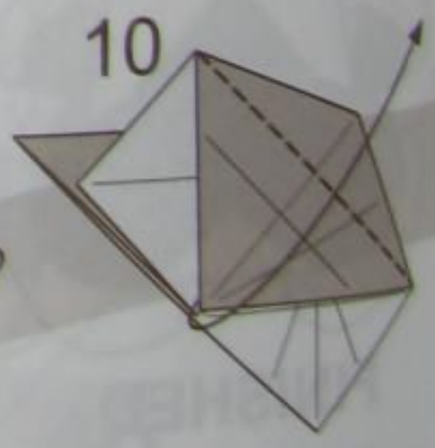

Fold and unfold the corners to the circled intersections.



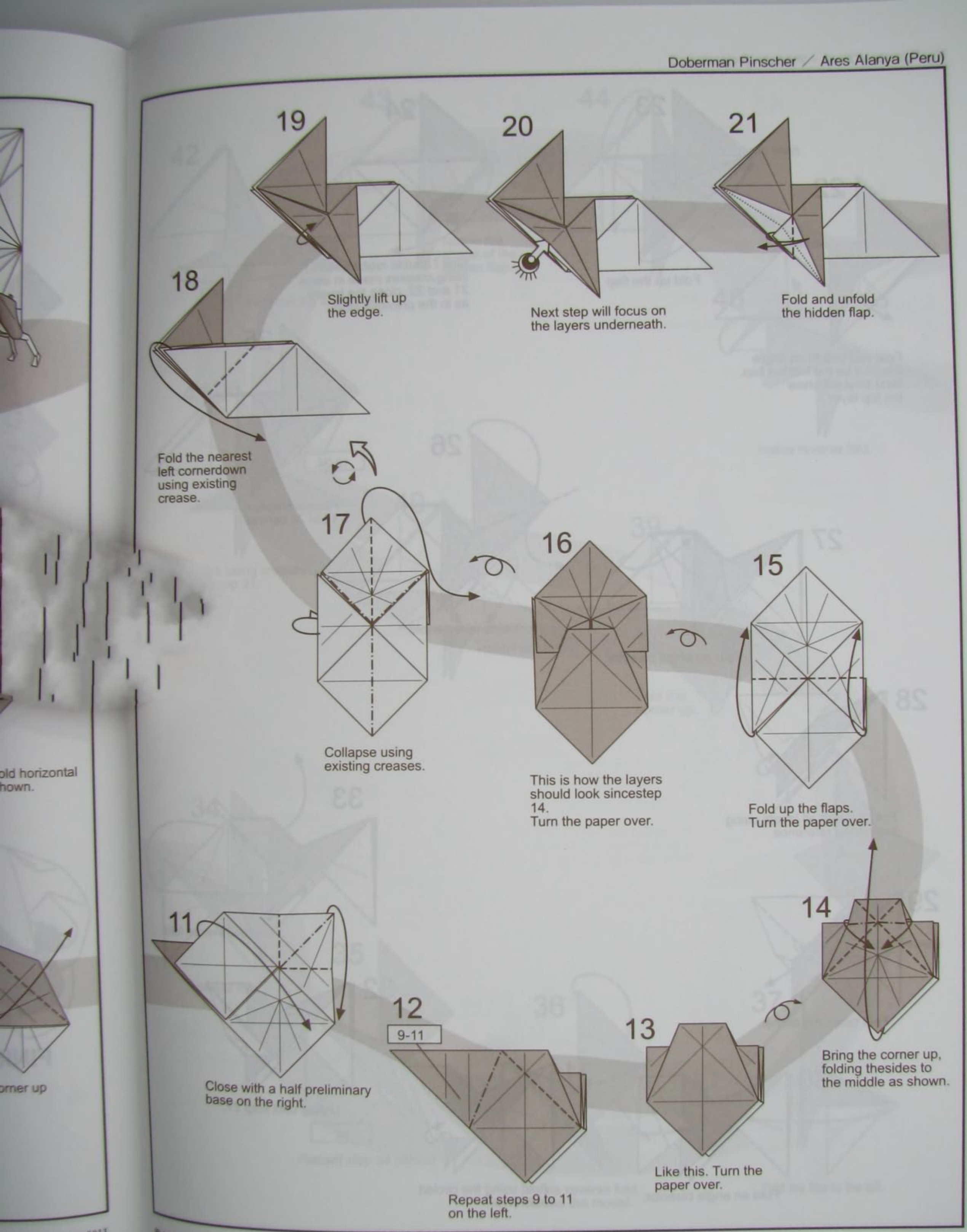

Fold the upper corner behind.

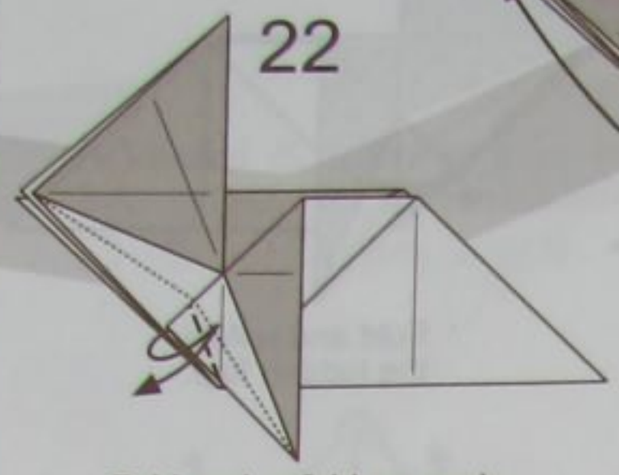



Fold the lower right edge up and bring the right corner down.

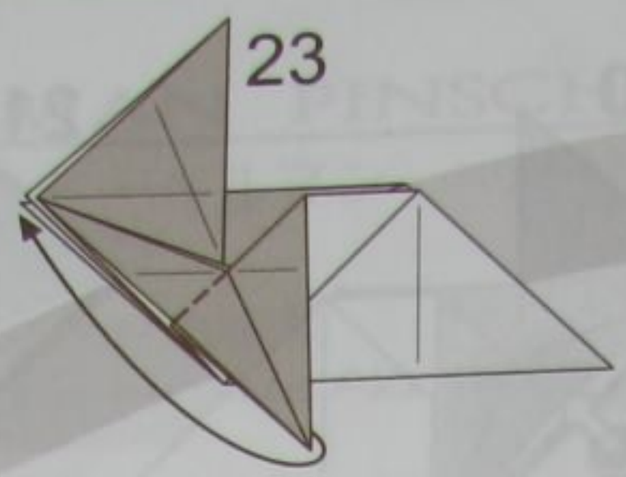



Fold the corner up

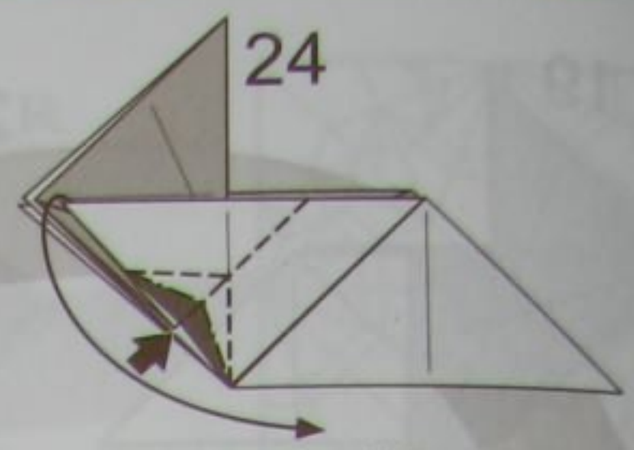

19
Slightly lift up the edge.
20
Next step will focus on the layers underneath.
21
Fold and unfold the hidden flap.
18
Fold the nearest left cornerdown using existing crease.
17
Collapse using existing creases.
16
This is how the layers should look sincestep 14.
Turn the paper over.
15
Fold up the flaps.
Turn the paper over.
14
Bring the corner up, folding thesides to the middle as shown.
13
Like this. Turn the paper over.
12
9-11
Repeat steps 9 to 11 on the left.
11
Close with a half preliminary base on the right.



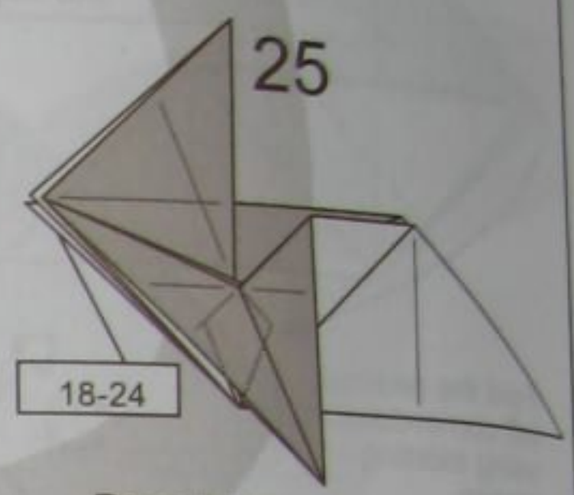

Fold and unfold an angle bisector on the hidden flap. Next step will show the top layer.



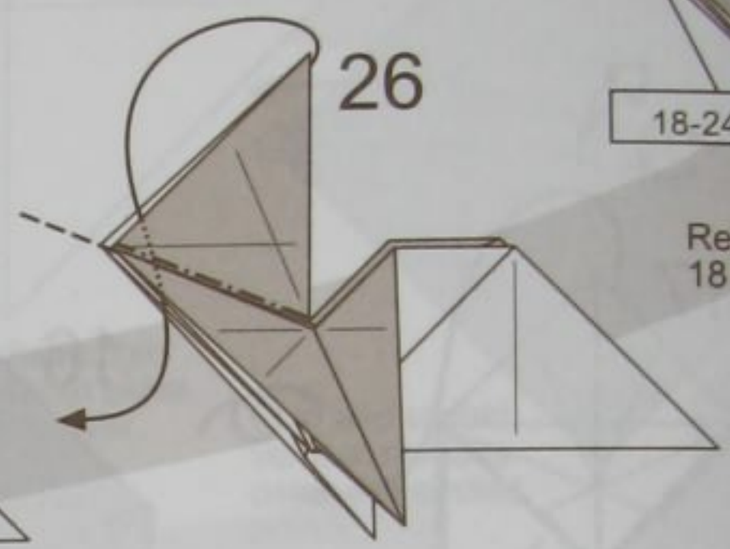

Fold up the flap



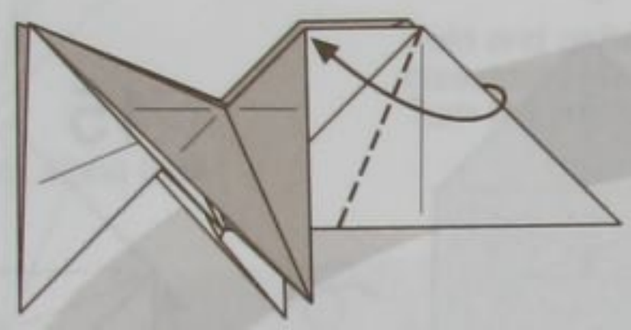

Sink / double rabbit ear fold using,creases made in steps 21 and 22, close the layers as in the previous step.



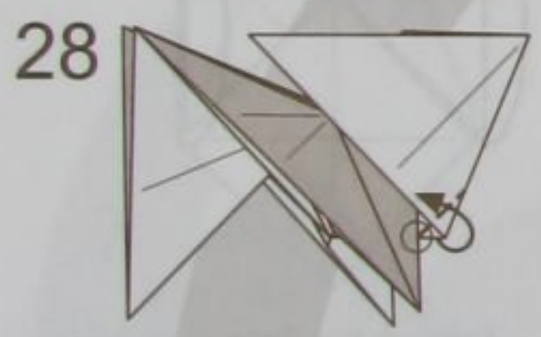

Repeat steps 18 to 24 behind.



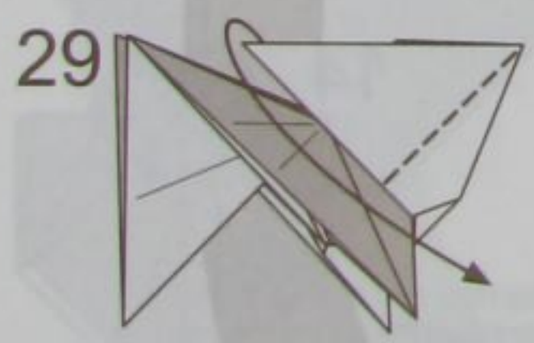

Inside reverse fold.



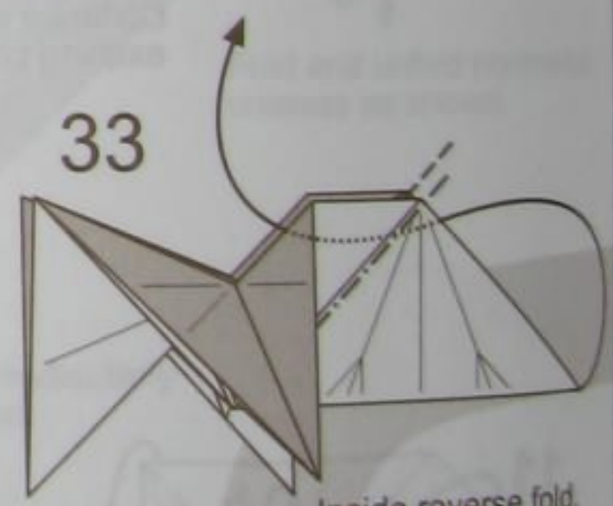

Fold an angle bisector.




Fold through all layers using the circled reference.

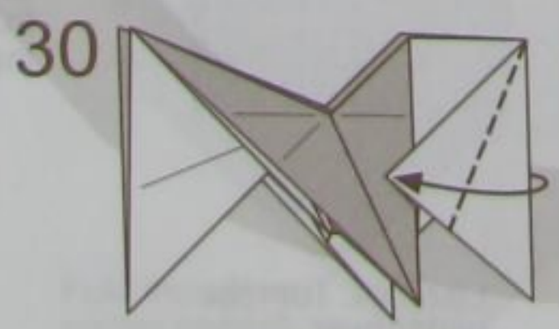



Fold down the corner.

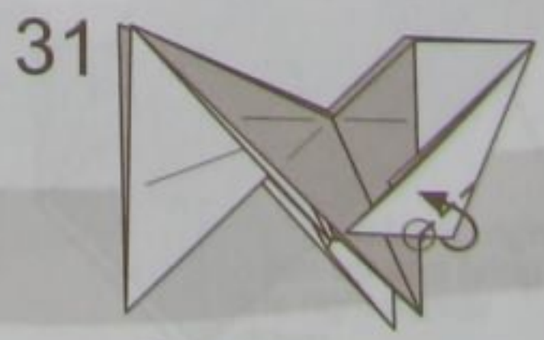



Inside reverse fold.

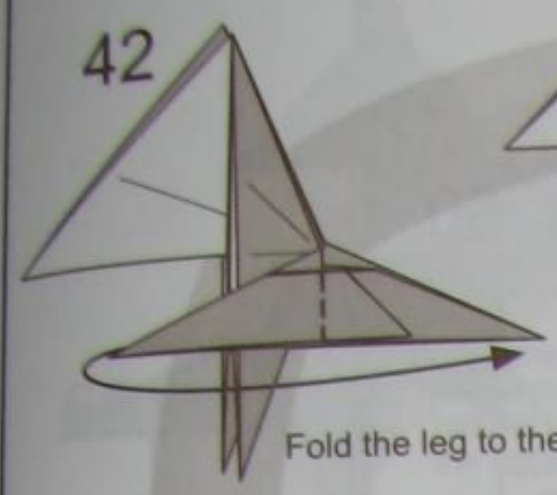
Unfold until step 27.



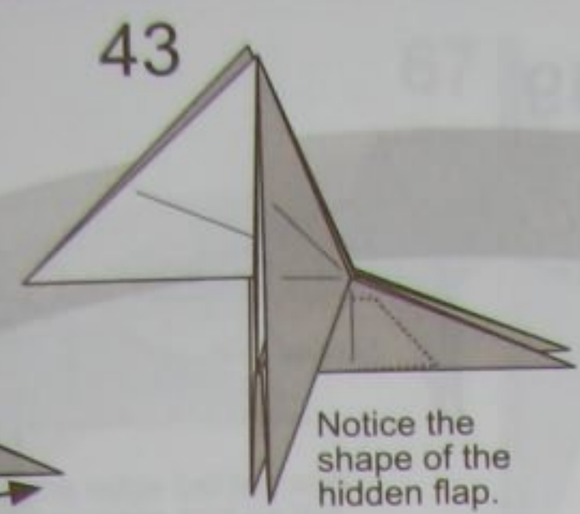

Fold an angle bisector.



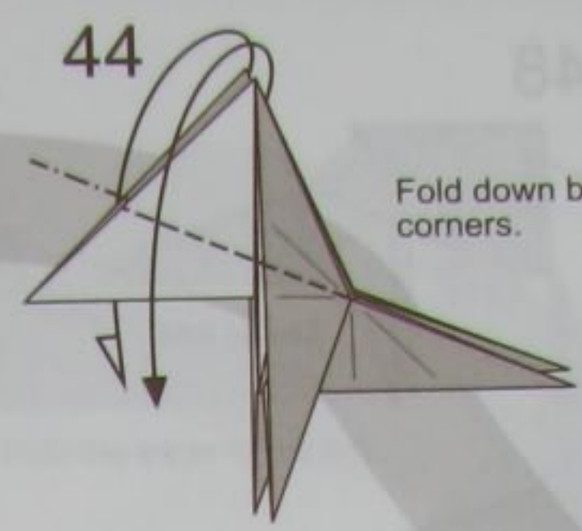

Fold using the circled reference.




Fold the leg to the right.

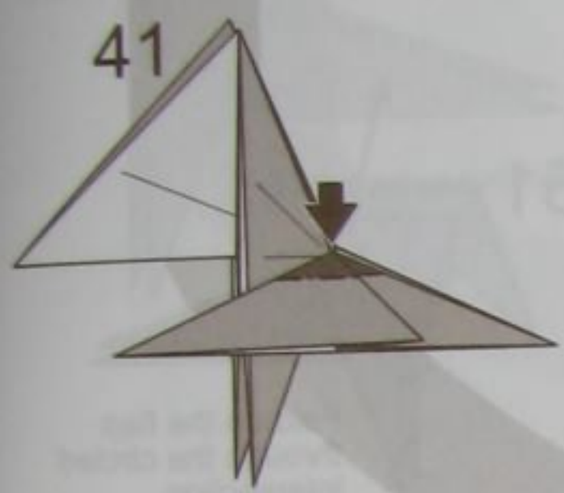



Notice the shape of the hidden flap.

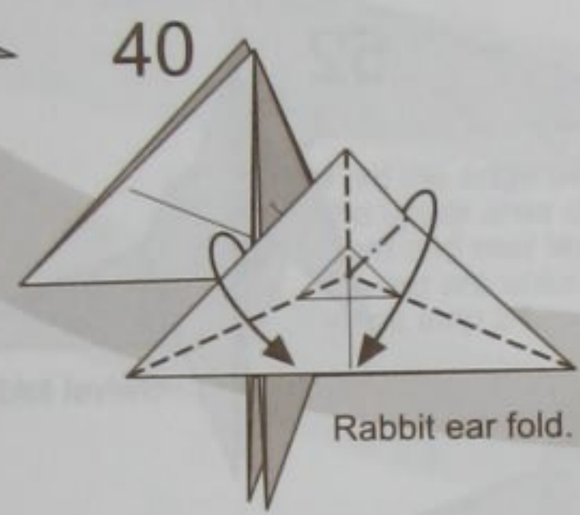



Fold down both corners.

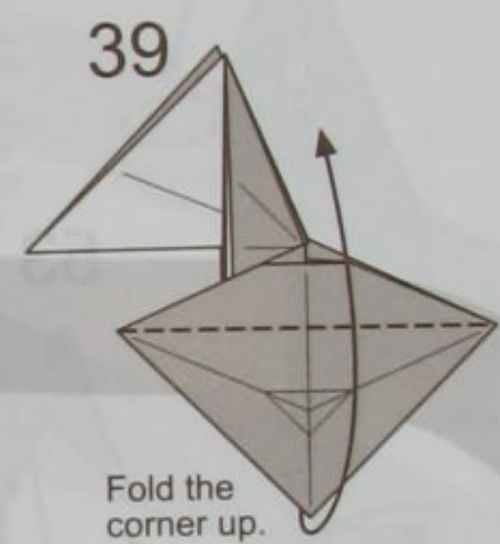
Inside reverse fold.



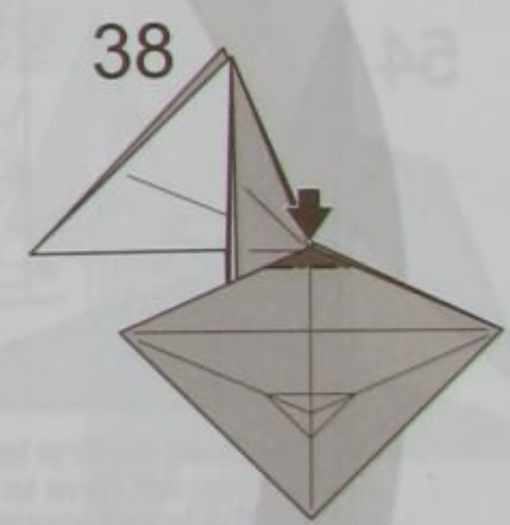

Open sink using creases made in step 31.



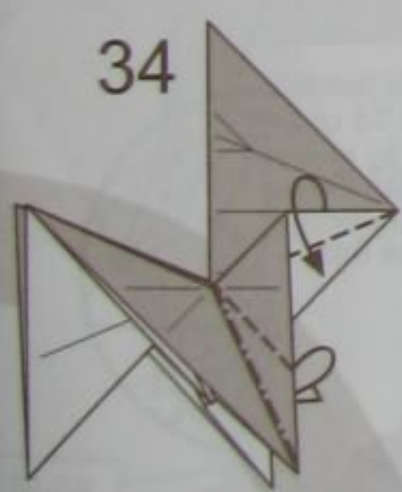

Rabbit ear fold.



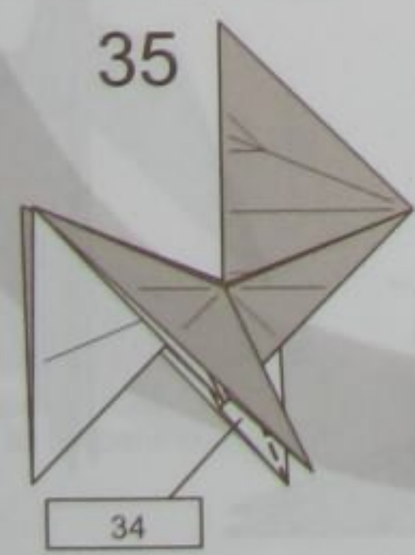

Fold the corner up.



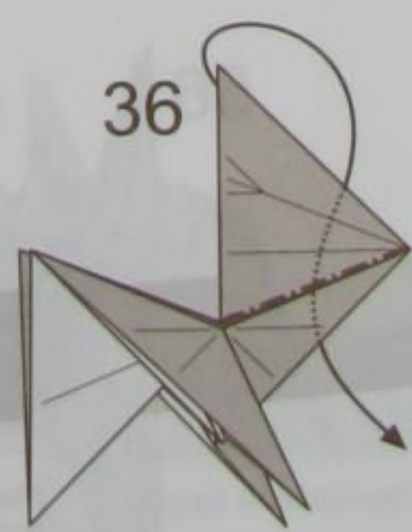

Open sink using creases made in step 28.



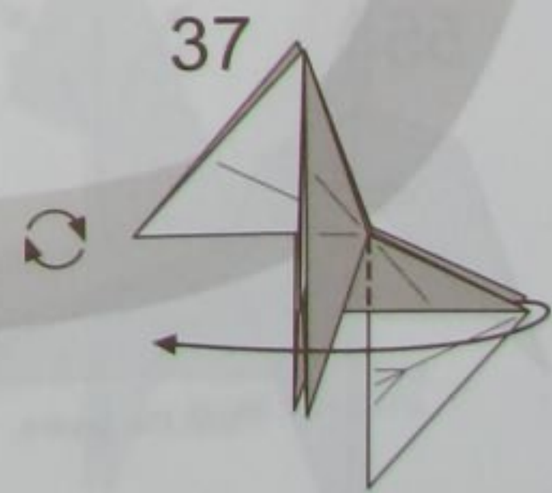

Swivel fold.



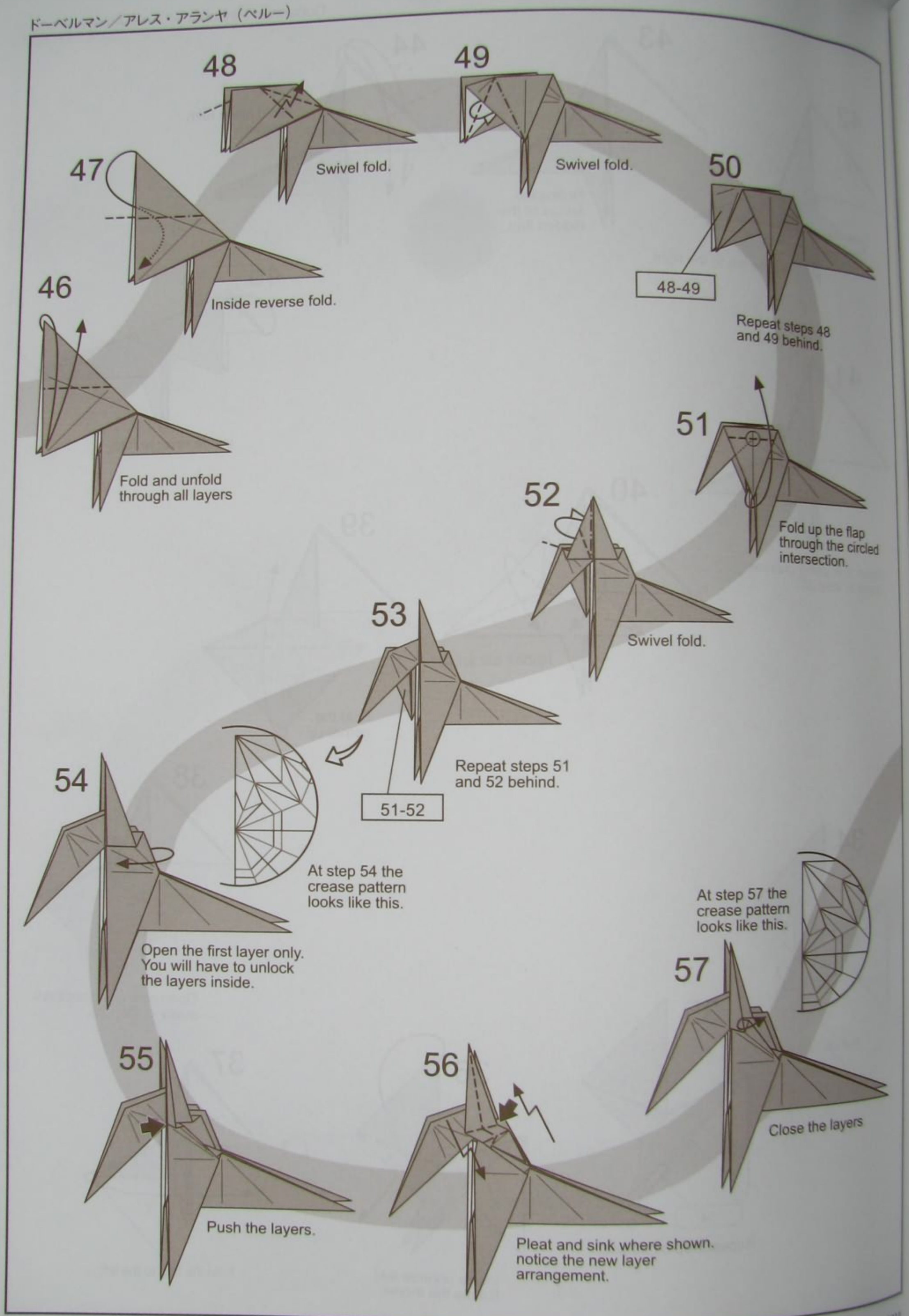

Repeat step 34 behind.

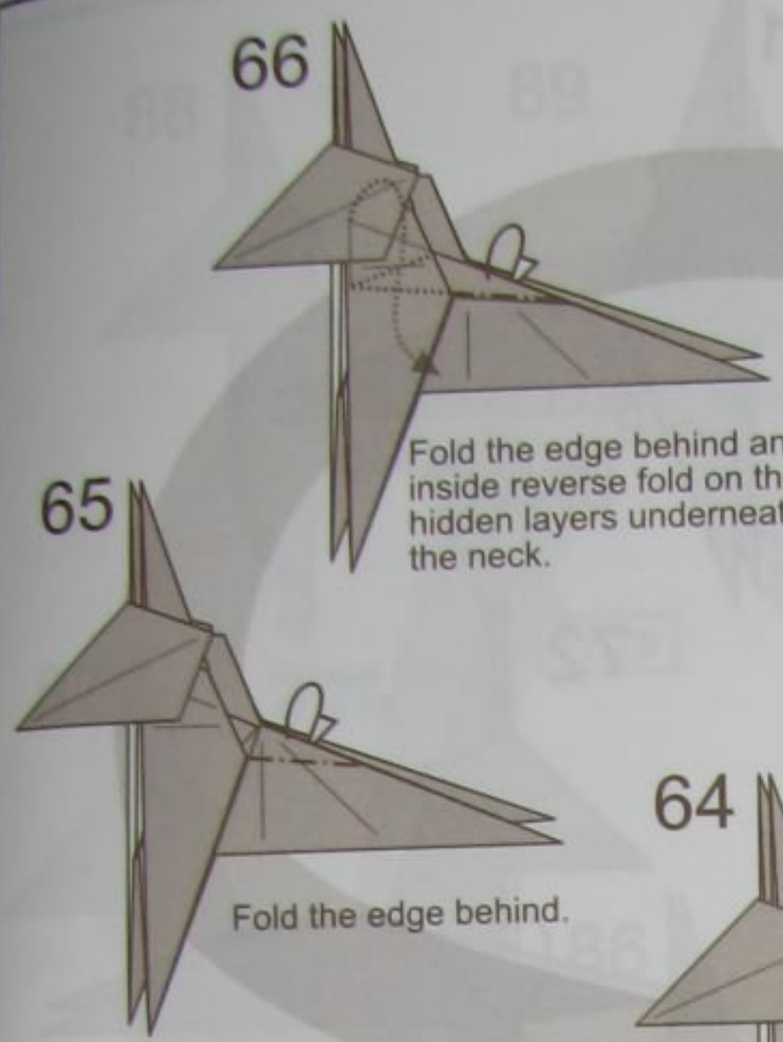


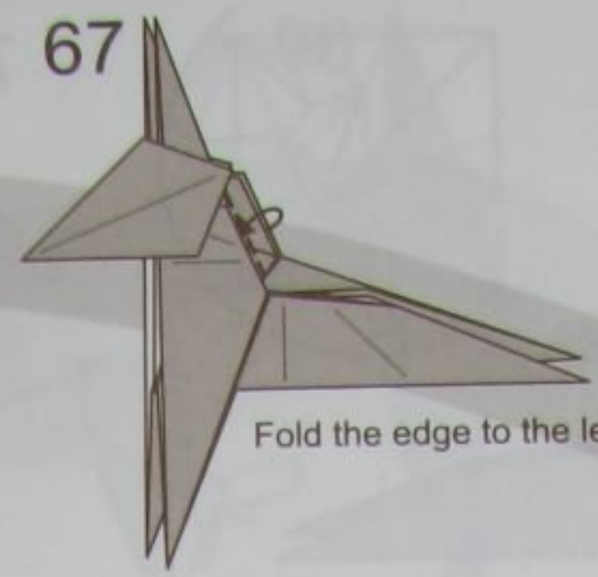

Inside reverse fold.
Rotate the model.

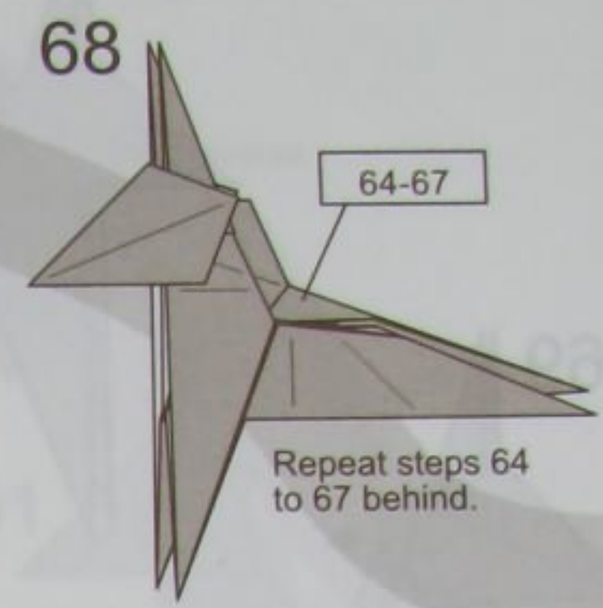


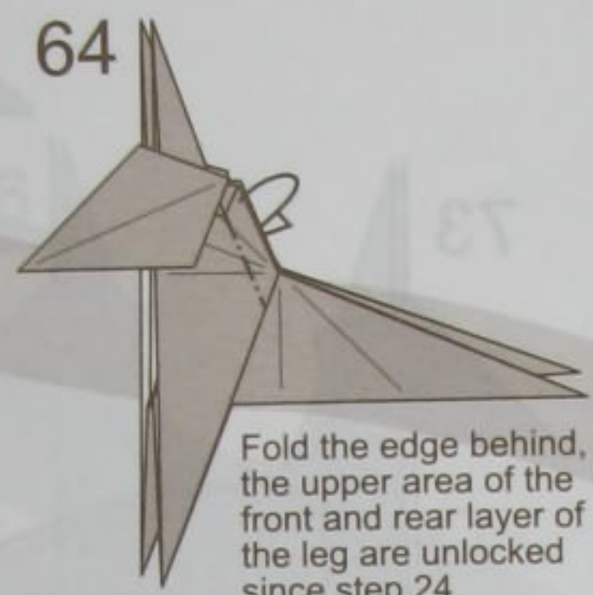

Fold the flap to the left.

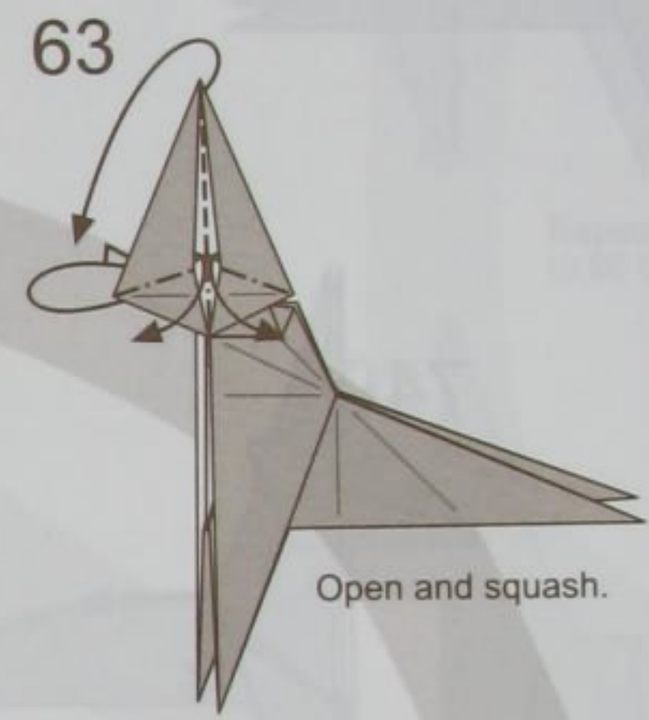

48
Swivel fold.
49
Swivel fold.
47
Inside reverse fold.
50
48-49
Repeat steps 48 and 49 behind.
46
Fold and unfold through all layers
51
Fold up the flap through the circled intersection.
52
Swivel fold.
53
51-52
Repeat steps 51 and 52 behind.
54
At step 54 the crease pattern looks like this.
Open the first layer only. You will have to unlock the layers inside.
At step 57 the crease pattern looks like this.
57
Close the layers
55
Push the layers.
56
Pleat and sink where shown. notice the new layer arrangement.

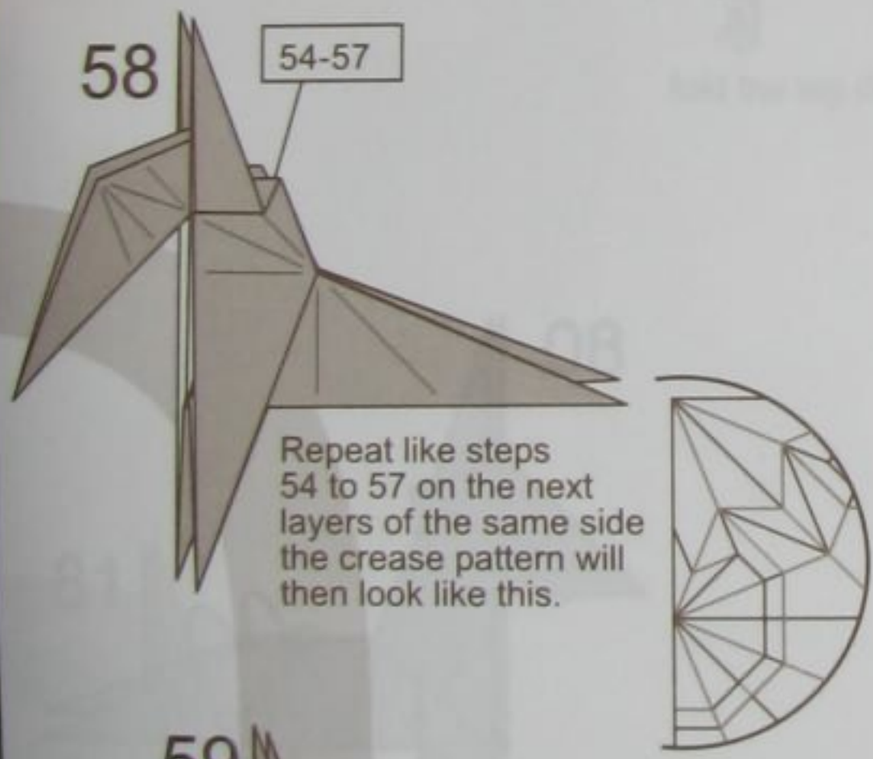

66
Fold the edge behind and inside reverse fold on the hidden layers underneath the neck.
65
Fold the edge behind.

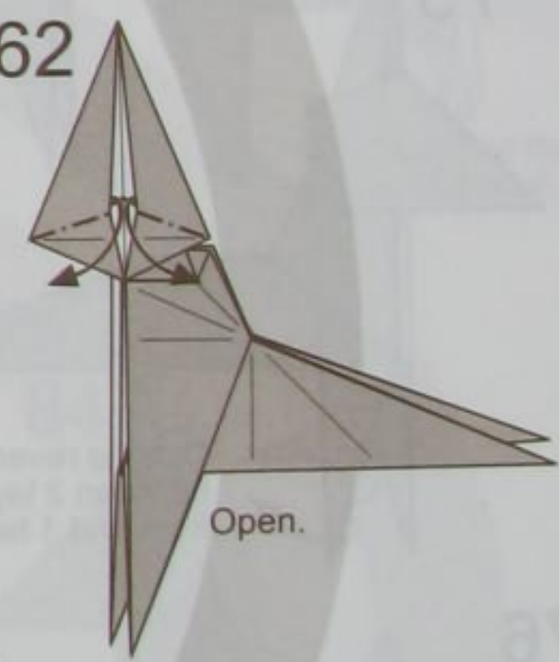

67
Fold the edge to the left.

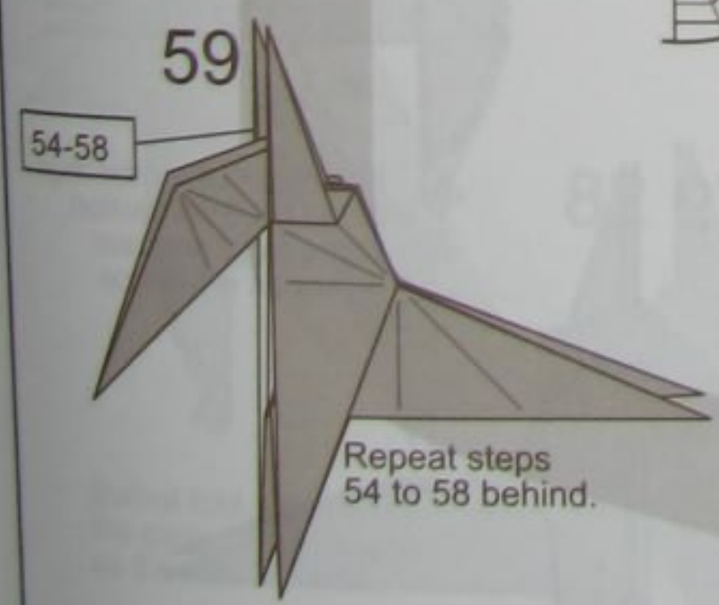

68
64-67
Repeat steps 64 to 67 behind.

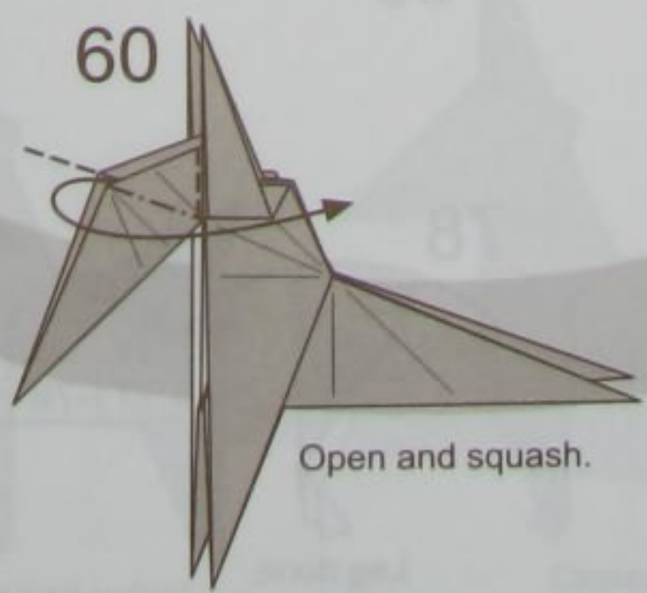

64
Fold the edge behind, the upper area of the front and rear layer of the leg are unlocked since step 24.

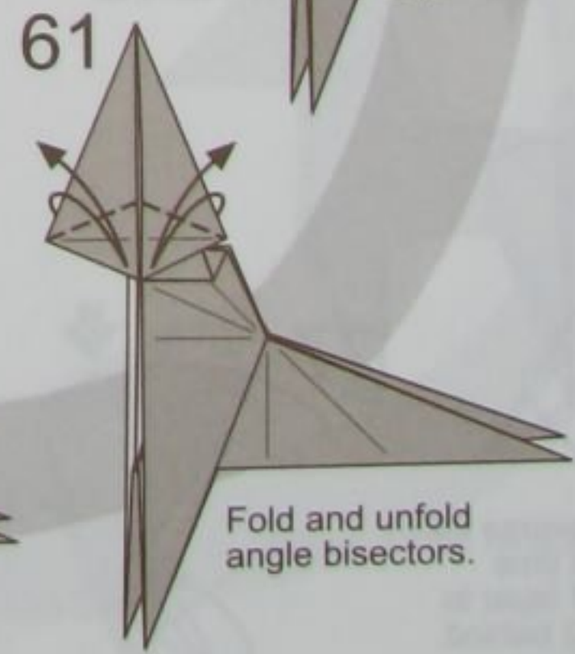

63
Open and squash.

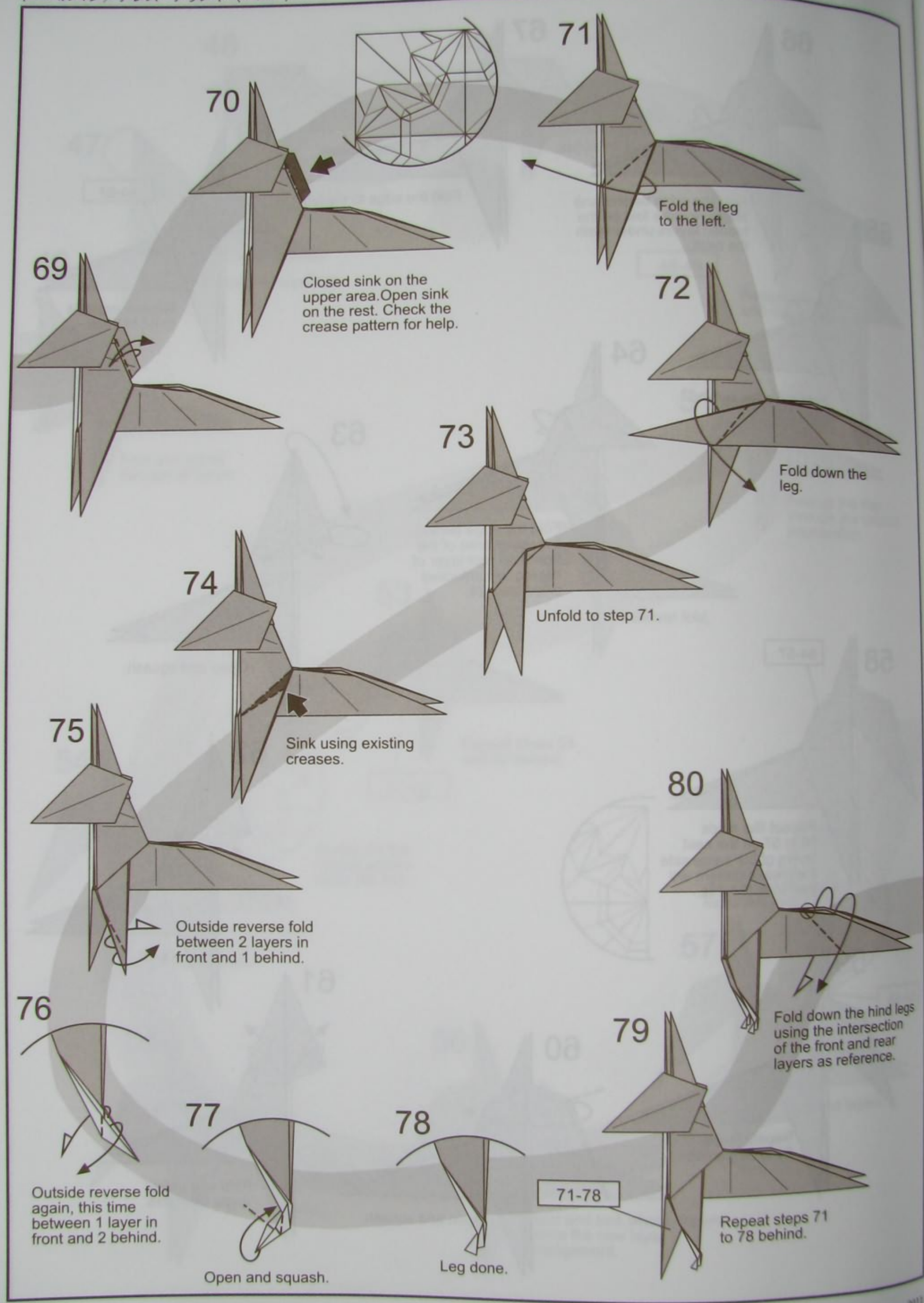

58
54-57
Repeat like steps 54 to 57 on the next layers of the same side the crease pattern will then look like this.

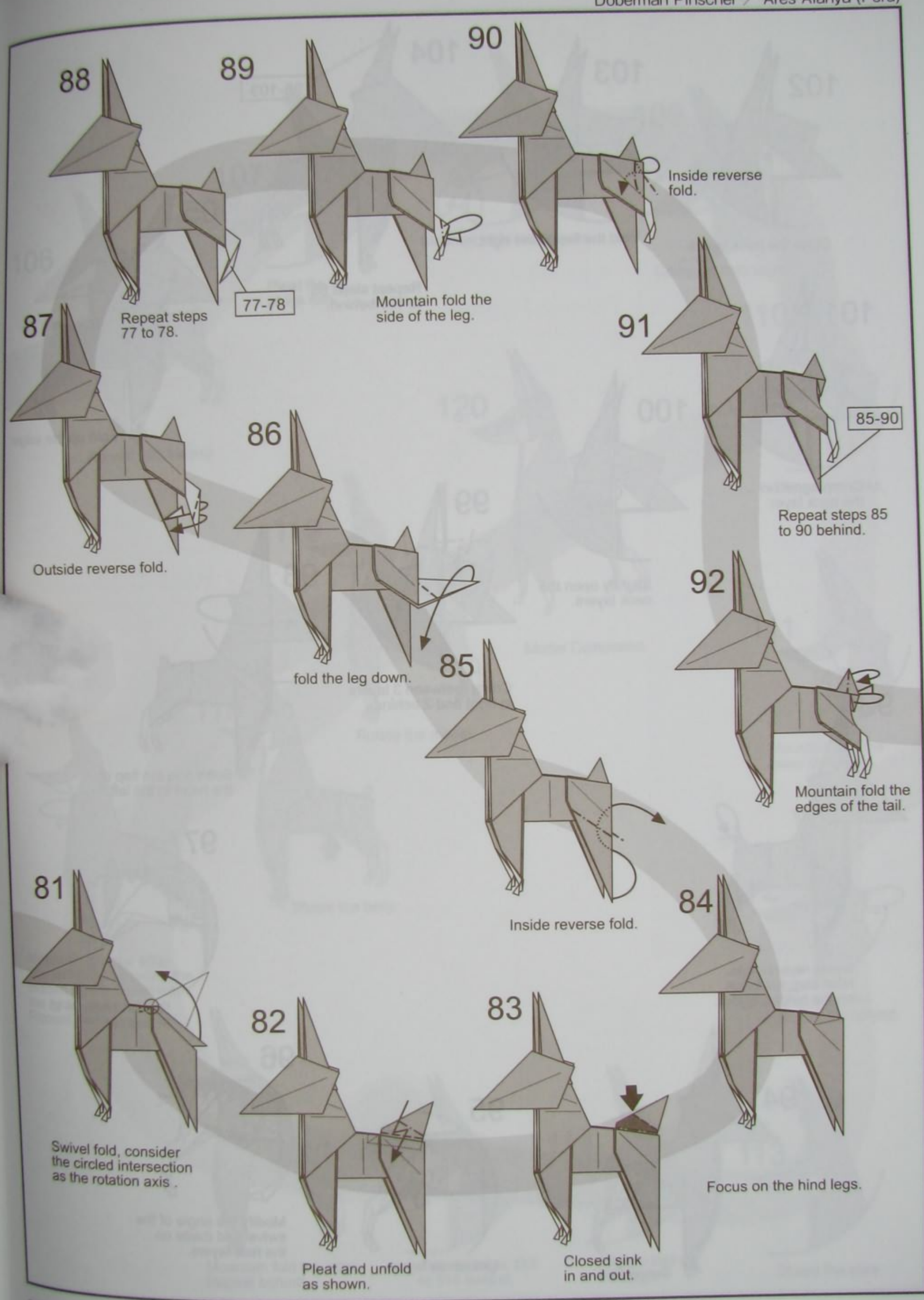

62
Open.

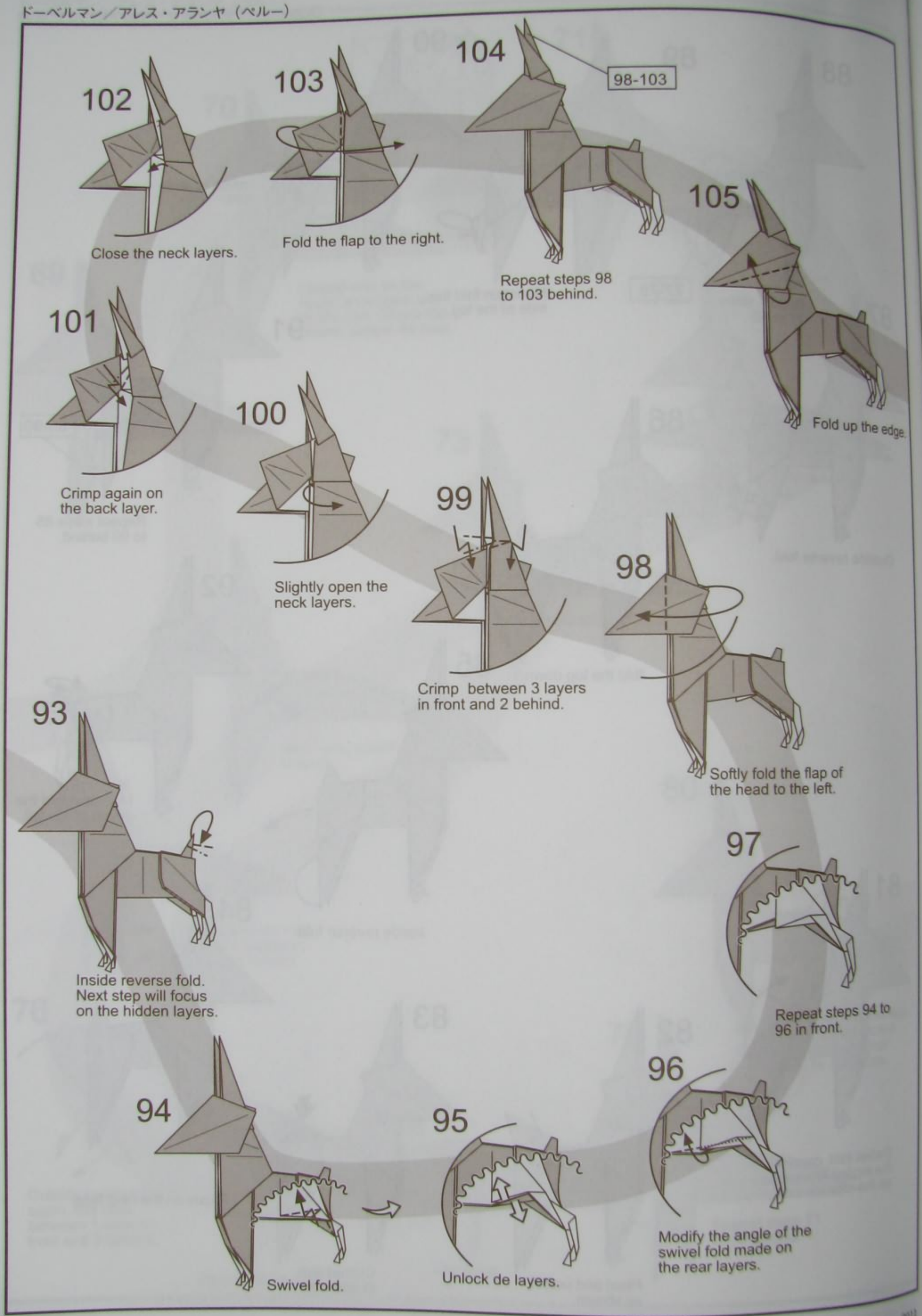

59
54-58
Repeat steps 54 to 58 behind.

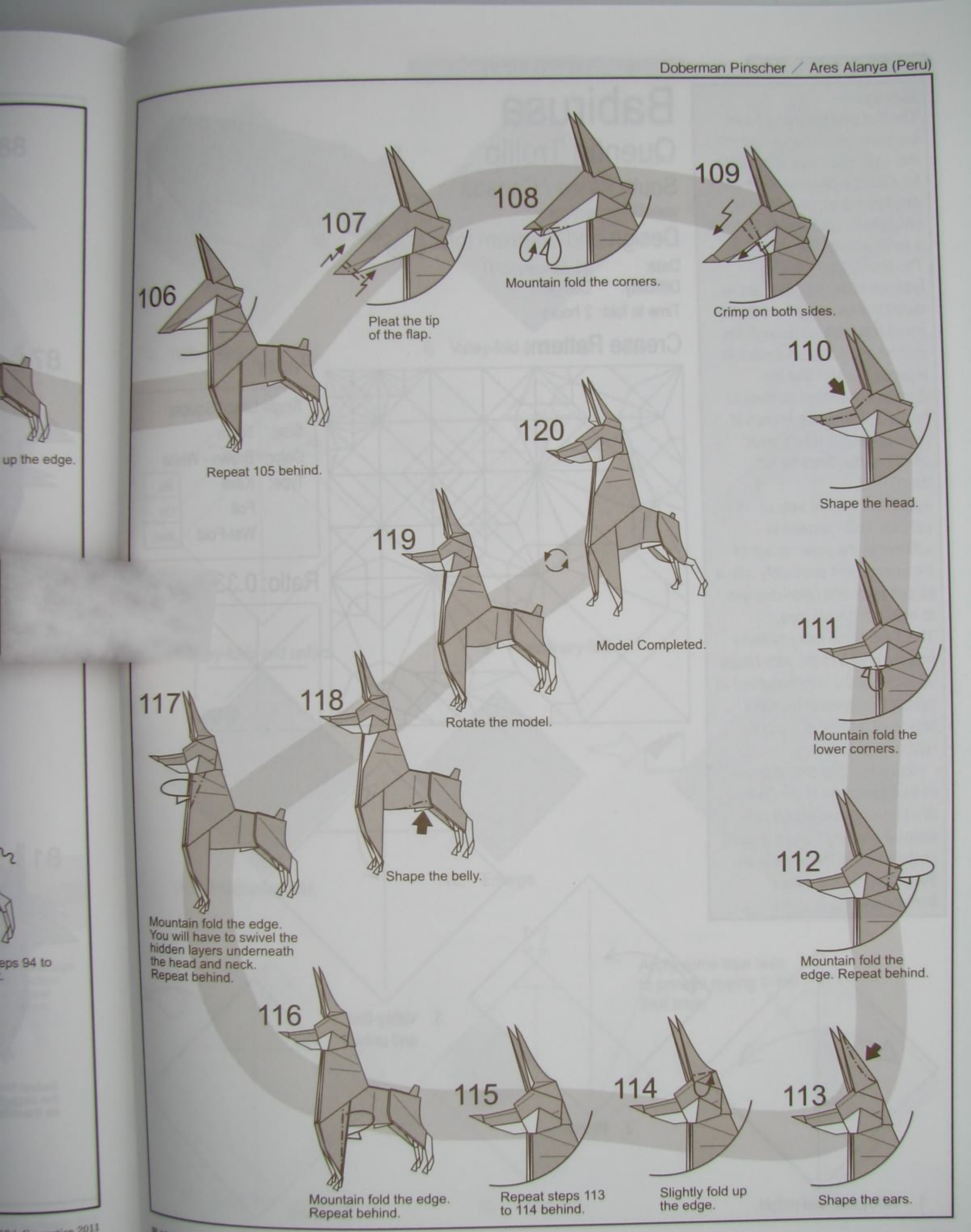

60
Open and squash.


61
Fold and unfold angle bisectors.


70
Closed sink on the upper area.Open sink on the rest. Check the crease pattern for help.
71
Fold the leg to the left.
69
72
Fold down the leg.
73
Unfold to step 71.
74
Sink using existing creases.
75
Outside reverse fold between 2 layers in front and 1 behind.
80
Fold down the hind legs using the intersection of the front and rear layers as reference.
76
Outside reverse fold again, this time between 1 layer in front and 2 behind.
77
Open and squash.
78
Leg done.
79
71-78
Repeat steps 71 to 78 behind.


88
89
90
Inside reverse fold.
77-78
Repeat steps 77 to 78.
Mountain fold the side of the leg.
87
91
85-90
Repeat steps 85 to 90 behind.
Outside reverse fold.
86
92
fold the leg down.
85
Mountain fold the edges of the tail.
Inside reverse fold.
81
84
82
83
Swivel fold, consider the circled intersection as the rotation axis .
Focus on the hind legs.
Pleat and unfold as shown.
Closed sink in and out.


102
Close the neck layers.
103
Fold the flap to the right.
104
98-103
Repeat steps 98 to 103 behind.
105
Fold up the edge.
101
Crimp again on the back layer.
100
Slightly open the neck layers.
99
Crimp between 3 layers in front and 2 behind.
98
Softly fold the flap of the head to the left.
93
Inside reverse fold. Next step will focus on the hidden layers.
97
Repeat steps 94 to 96 in front.
94
Swivel fold.
95
Unlock de layers.
96
Modify the angle of the swivel fold made on the rear layers.


106
Repeat 105 behind.
107
Pleat the tip of the flap.
108
Mountain fold the corners.
109
Crimp on both sides.
110
Shape the head.
111
Mountain fold the lower corners.
112
Mountain fold the edge. Repeat behind.
113
Shape the ears.
114
Slightly fold up the edge.
115
Repeat steps 113 to 114 behind.
116
Mountain fold the edge. Repeat behind.
117
Mountain fold the edge. You will have to swivel the hidden layers underneath the head and neck. Repeat behind.
118
Shape the belly.
119
Rotate the model.
120
Model Completed.

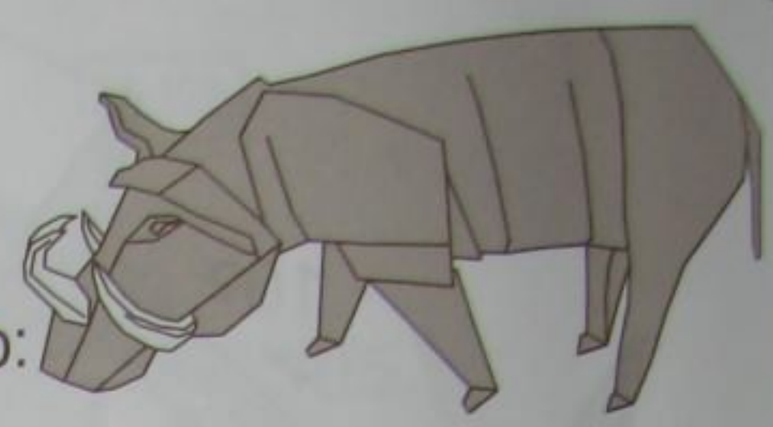
Babirusa
The first time my friend Pavel suggested this strange animal to me, I thought it was impossible for such a bizarre creature to exist! However, they do exist naturally in a vulnerable status in a small area of S.E. Asia.
The obvious outstanding features of the Babirusa are its distinctive upper canines (in the male) that grow up through the muzzle and curve backward. In legends it is said that the Babirusa use these canines to hang itself on a tree branch at night to sleep (I mean, what other use can there be for them?).
Apart from the two sets of canines, I also wanted to achieve all the other details of the animal, and preferably with a closed-back and color-changes to highlight the canines.
There are some tricky sinks to free the layers of the ears (steps 30 to 34) and a long sequence of getting the layers of the front legs to sit outside of the body (steps 41 to 62).
Use a thin and strong paper so that the layers of the tusks don't become too thick. I also suggest shaping it into a grazing posture so that the jaw sits on the ground as it is quite front-heavy.

# Babirusa

## Quentin Trollip

South Africa / Canada

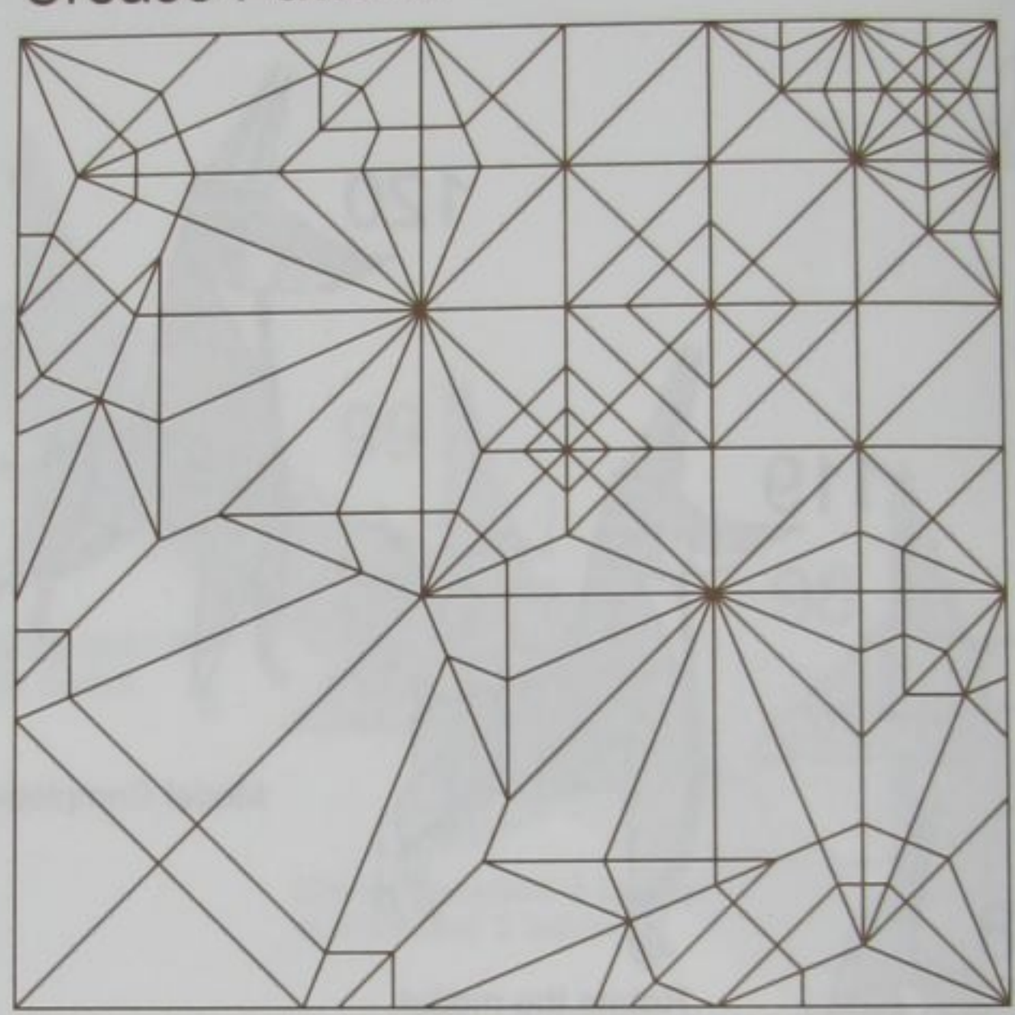
www.liveorigami.com



## Design and diagram info:

Date: 28 January 2011
Difficulty: Complex
Time to fold: 2 hours

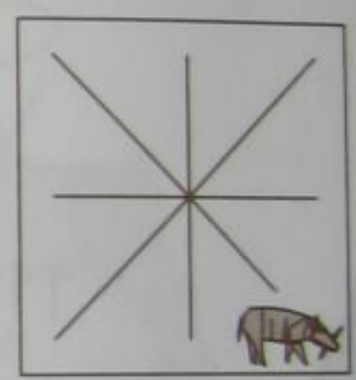
## Crease Pattern:

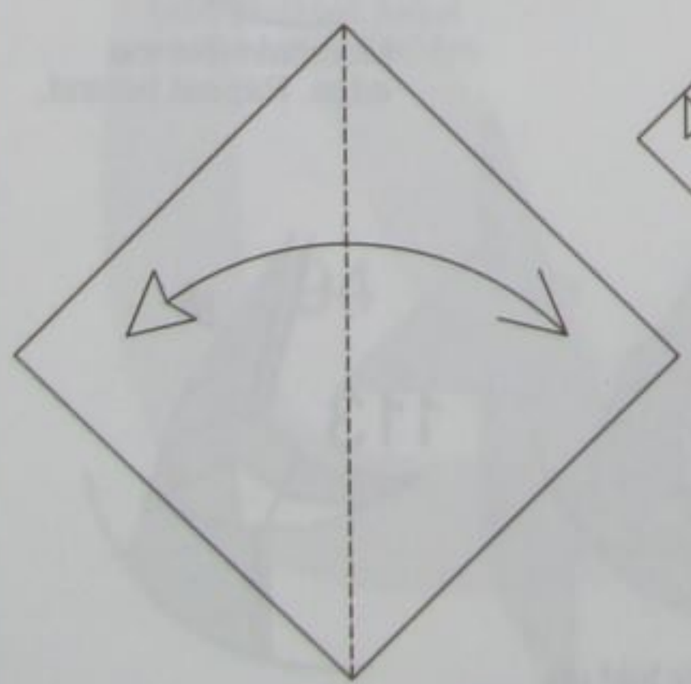


## Paper:

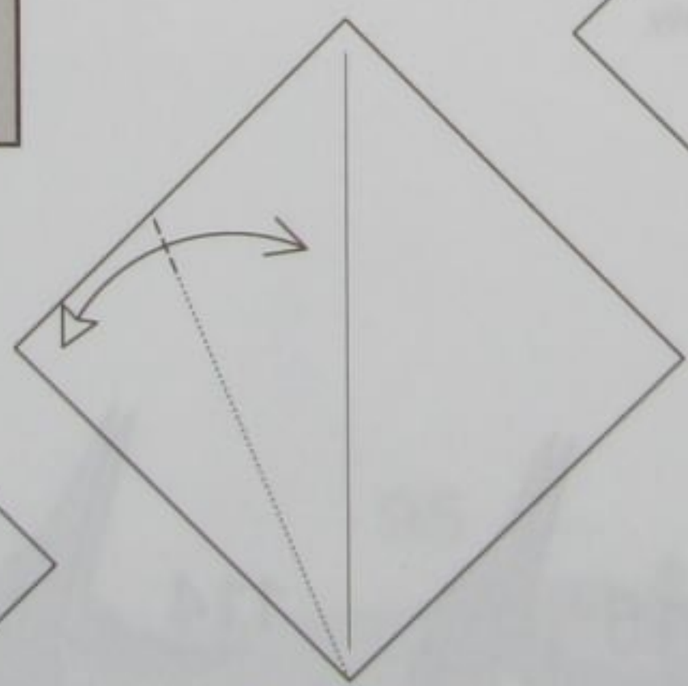
Single Uncut Square
Size: 50cm
Color: Brown - White
Type: Kami — No
Foil — OK
Wet-Fold — Best

Ratio: 0.33 Length

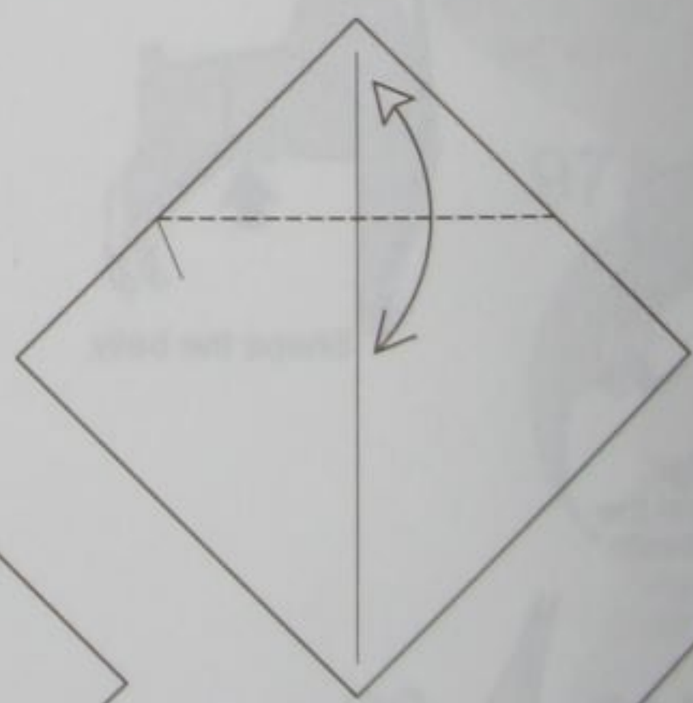




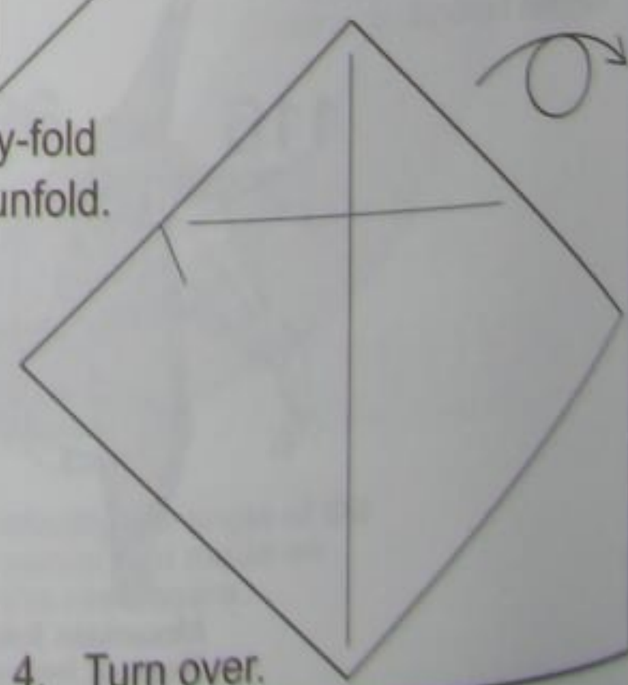
1. Valley-fold and unfold.



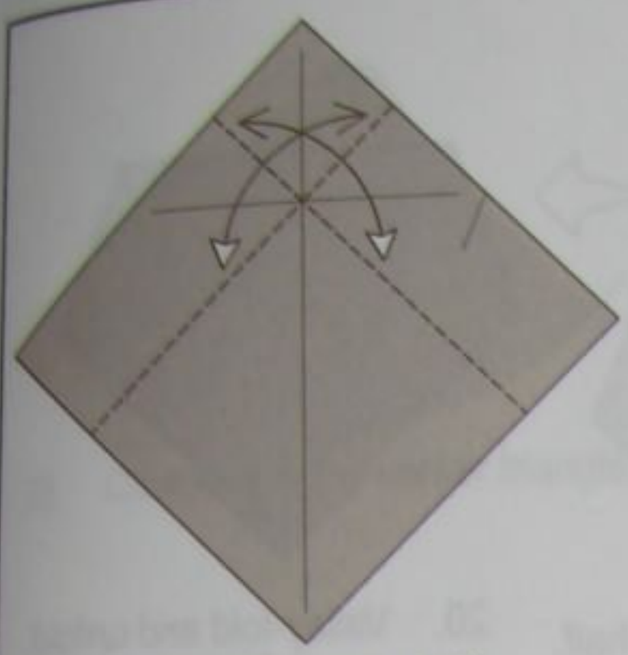
2. Pinch.



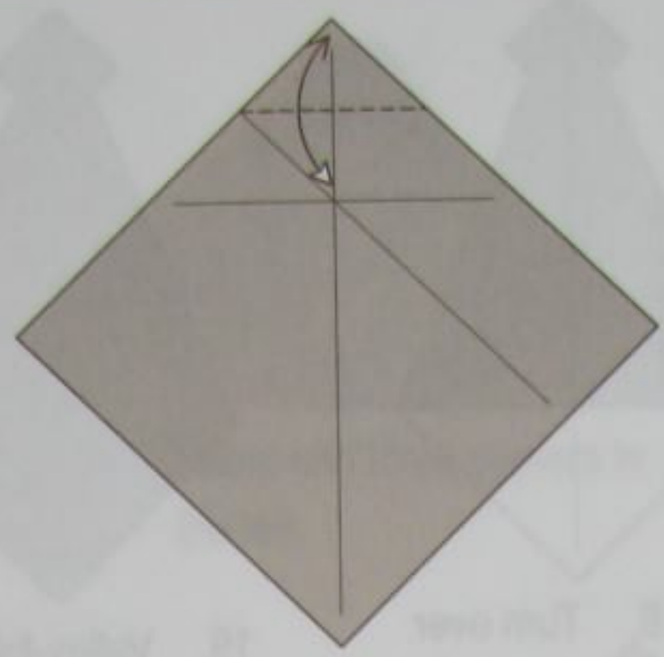
3. Valley-fold and unfold.



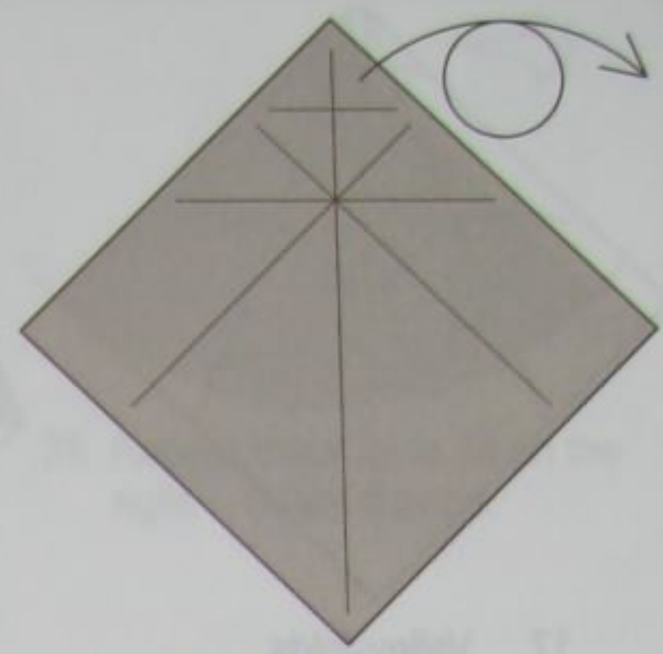
4. Turn over.



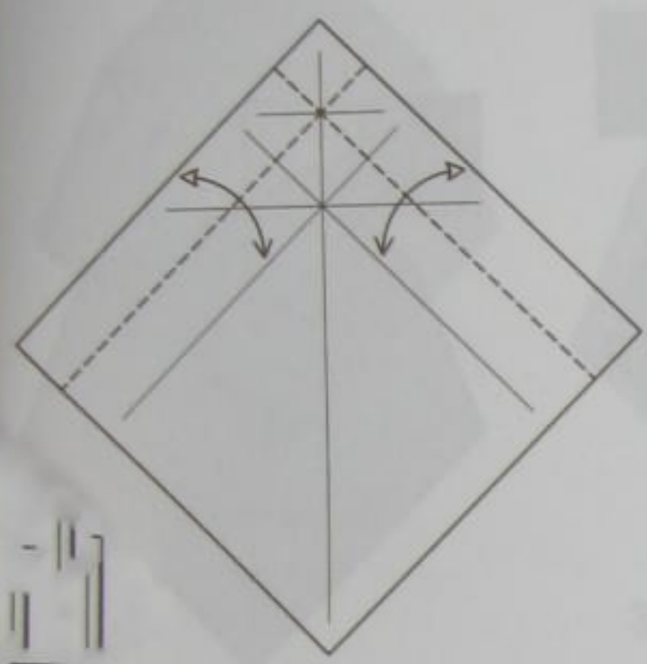
5. Valley-folds and unfold.



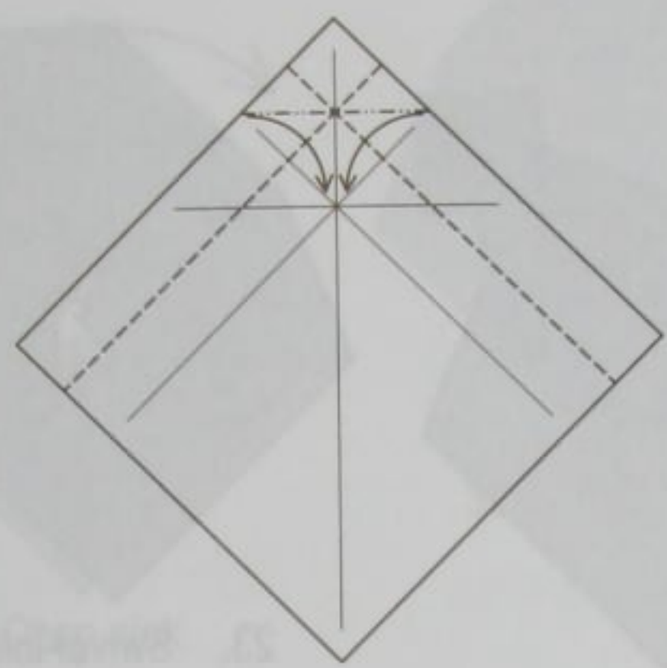
6. Valley-fold and unfold.



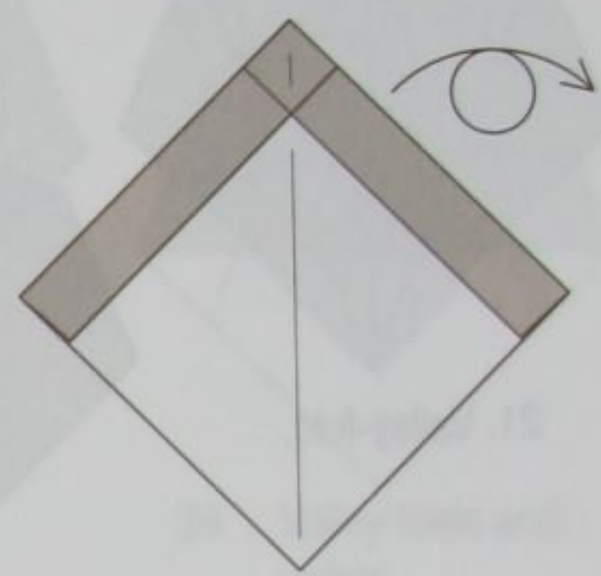
7. Turn over.



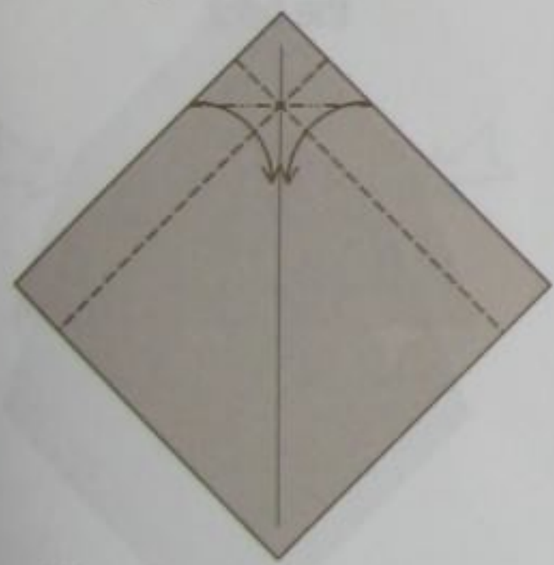
8. Valley-folds and unfold.



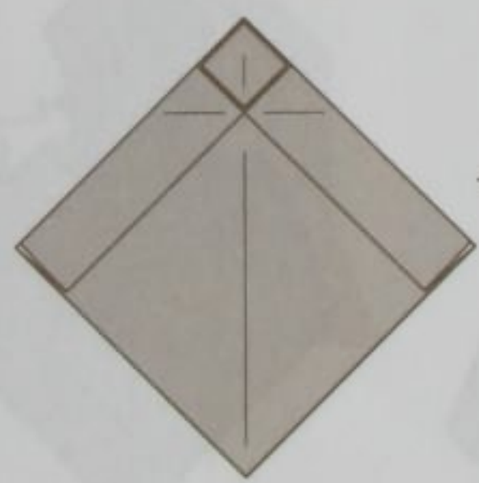
9. Preliminary-fold.



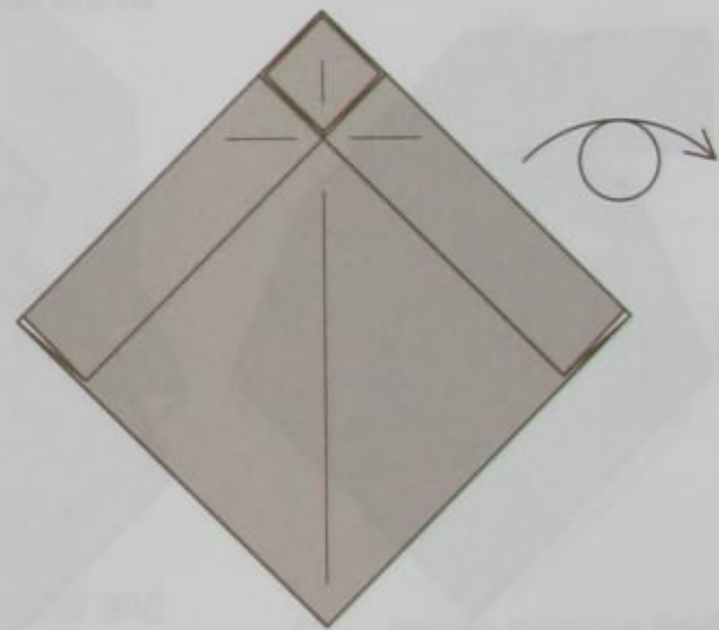
10. Turn over.



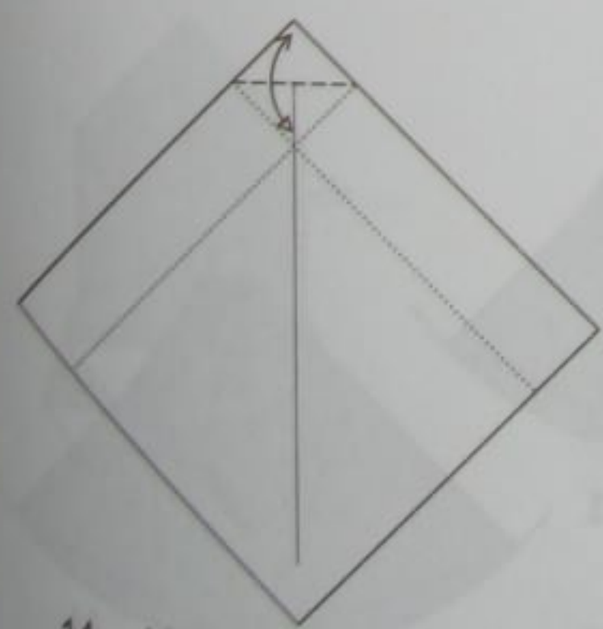
11. Preliminary-fold.



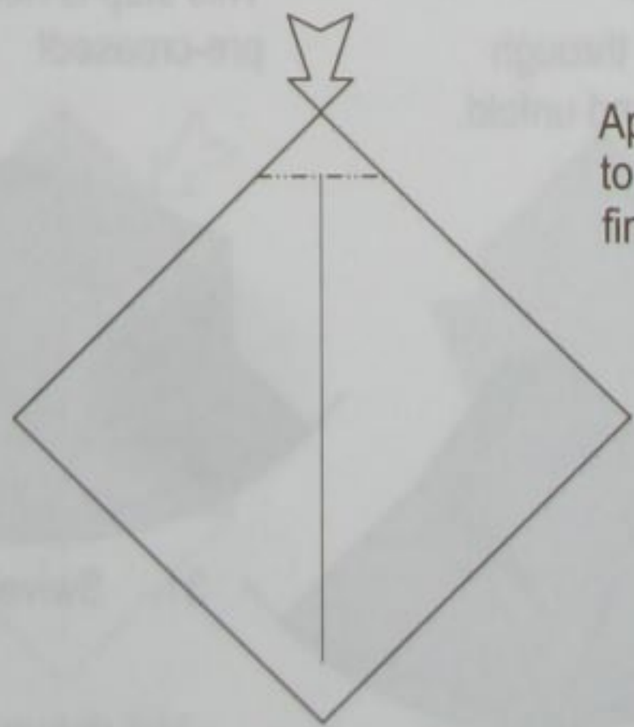
12. Enlarge.



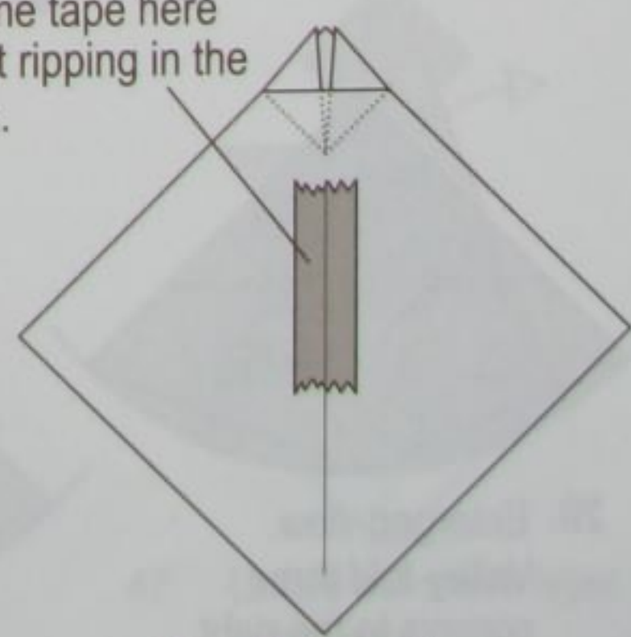
13. Turn over.



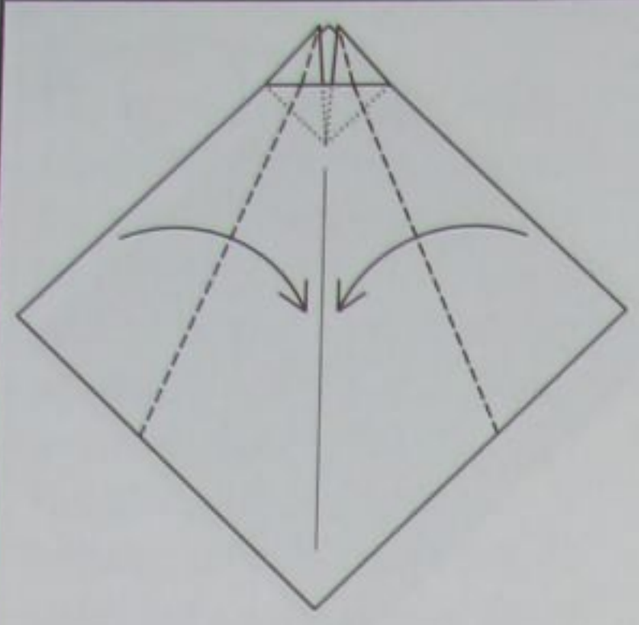
14. Valley-fold and unfold.



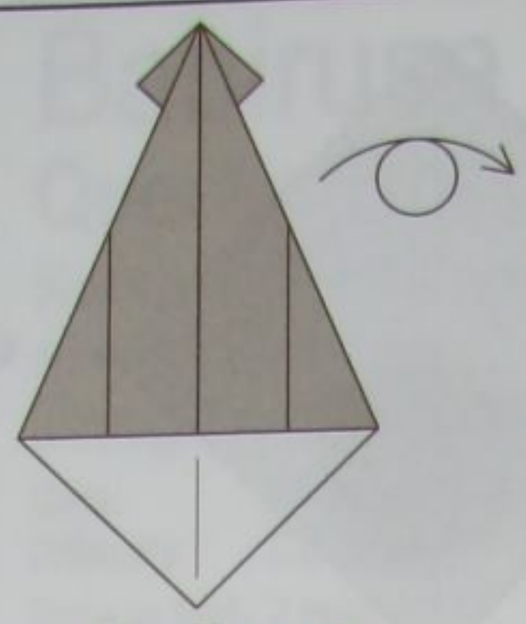
15. Open-sink.



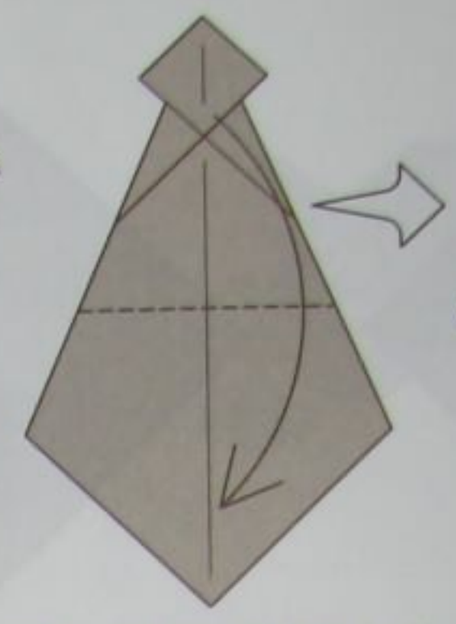

16. The result.



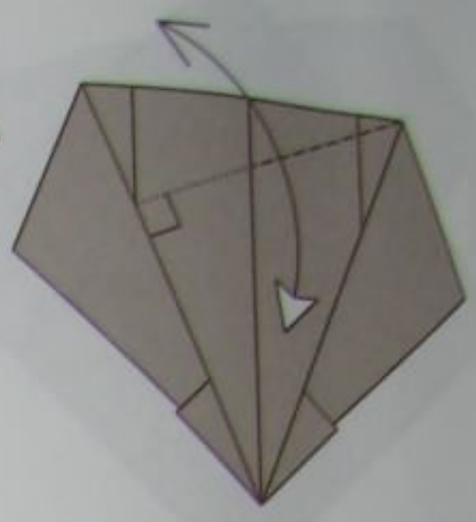
17. Valley-folds.



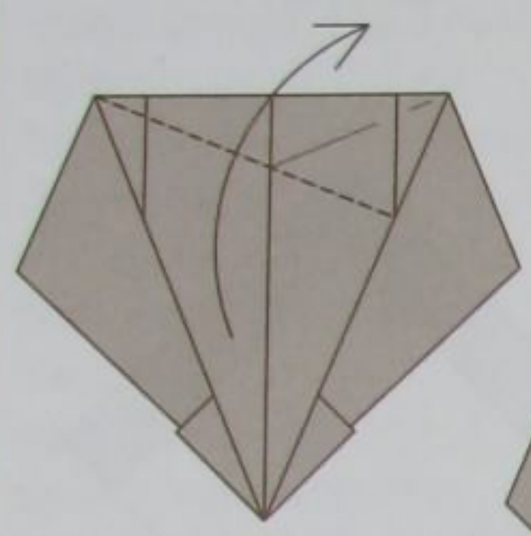
18. Turn over.



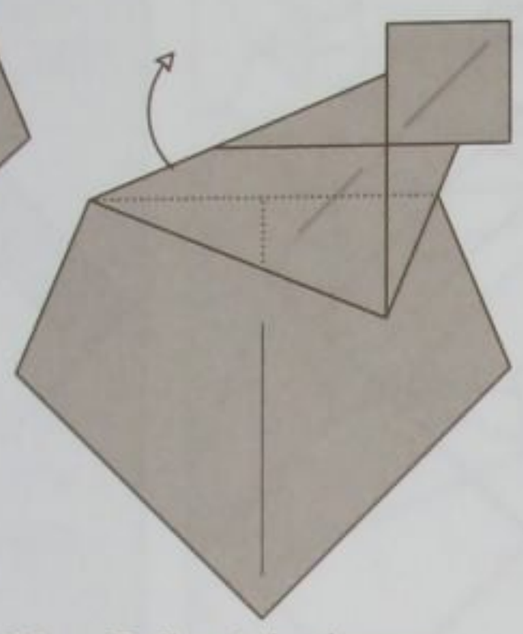
19. Valley-fold in half.



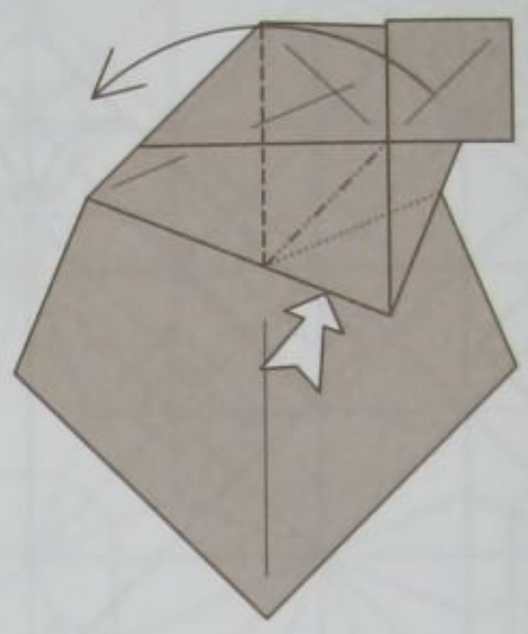
20. Valley-fold and unfold.



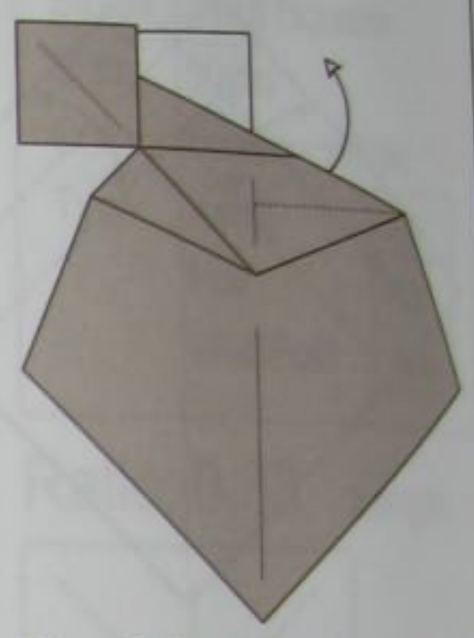
21. Valley-fold.



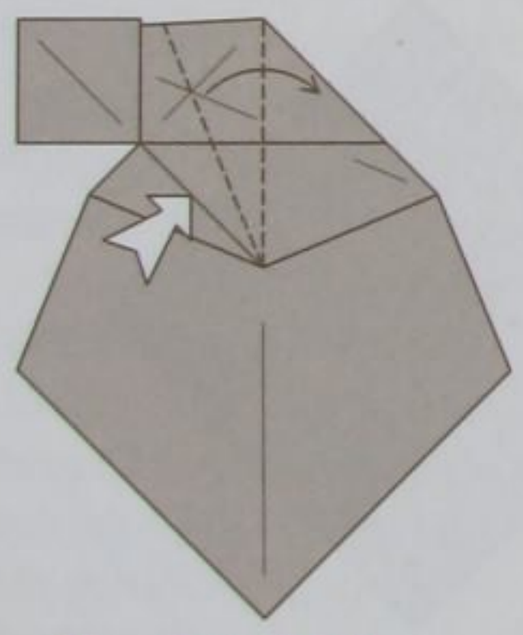
22. Pull out the layers at the back.



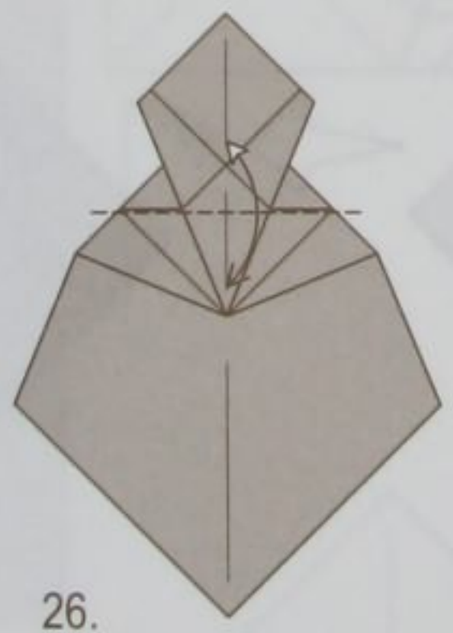
23. Swivel-fold.



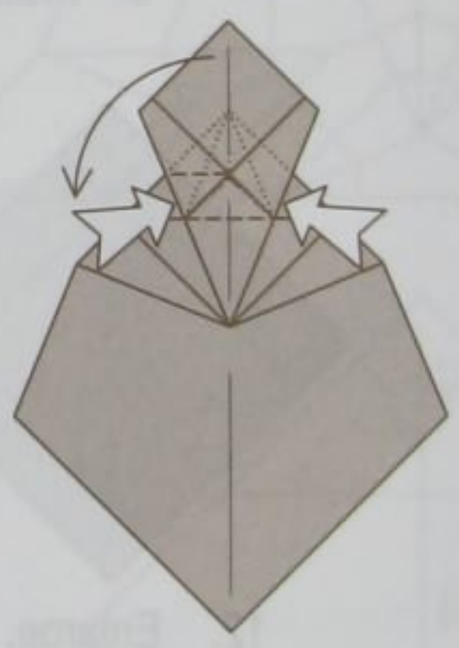
24. Pull out the layers at the back.



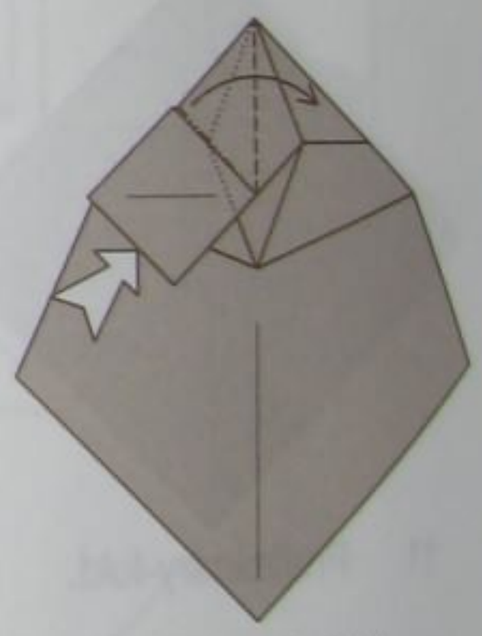
25. Squash-fold.



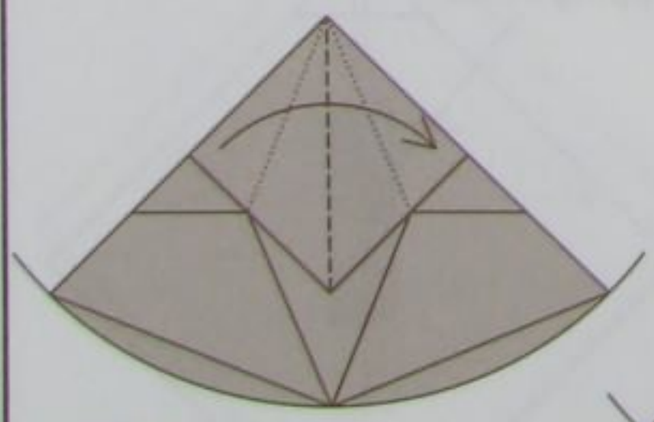
26. Valley-fold through all layers and unfold.



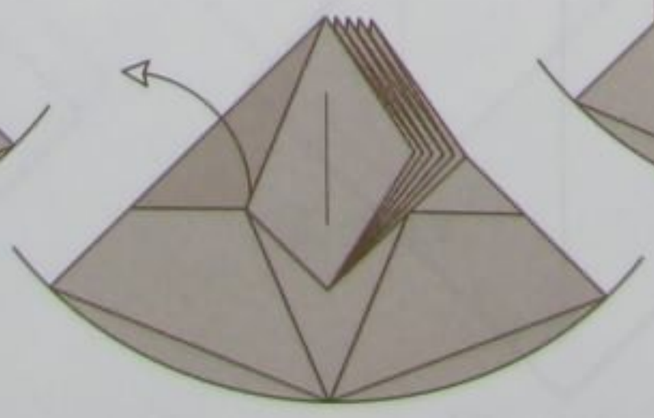
27. Petal-fold to the left. This step is not pre-creased!



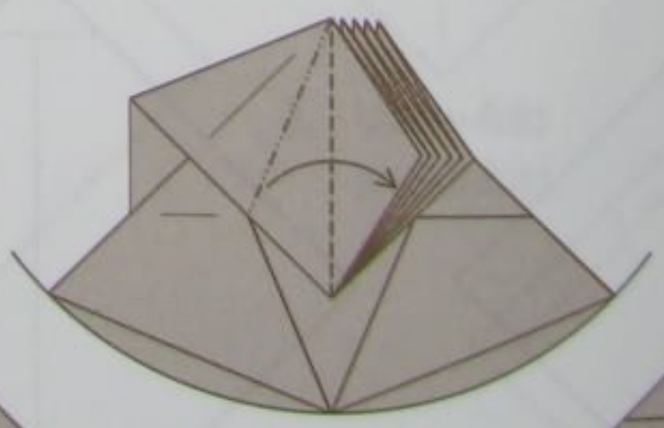
28. Squash-fold.



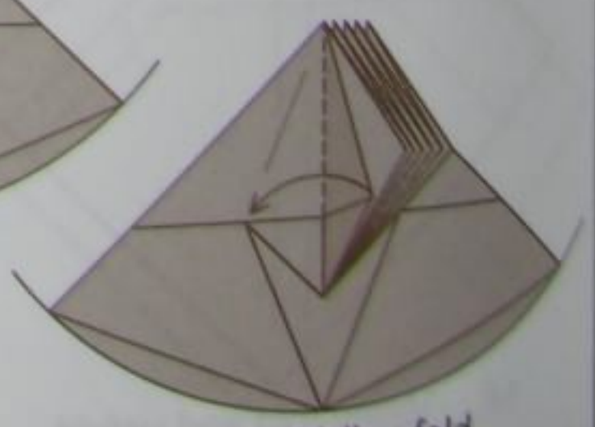
29. Enlarged view. Valley-fold three corners to the right



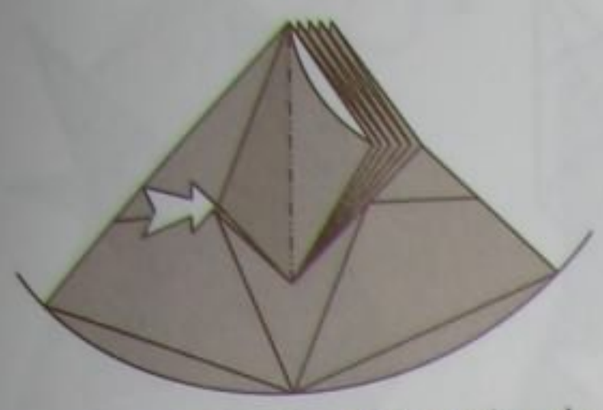
30. Pull out the layer.



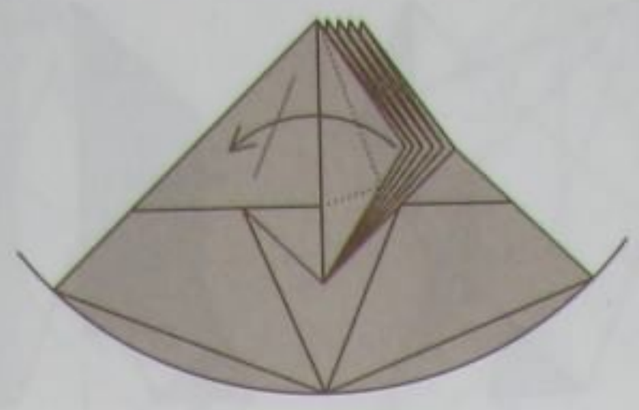
31. Swivel-fold.



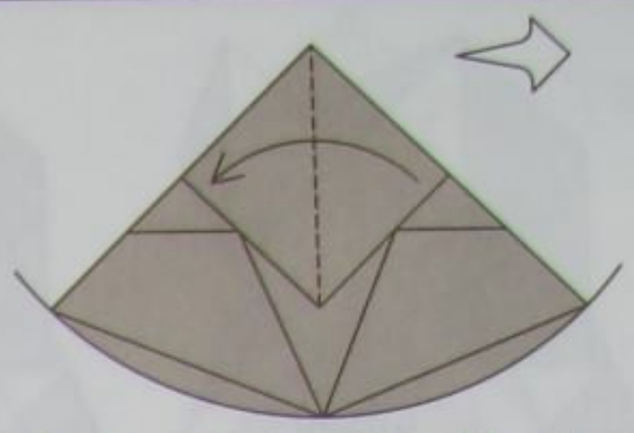
32. Valley-fold.



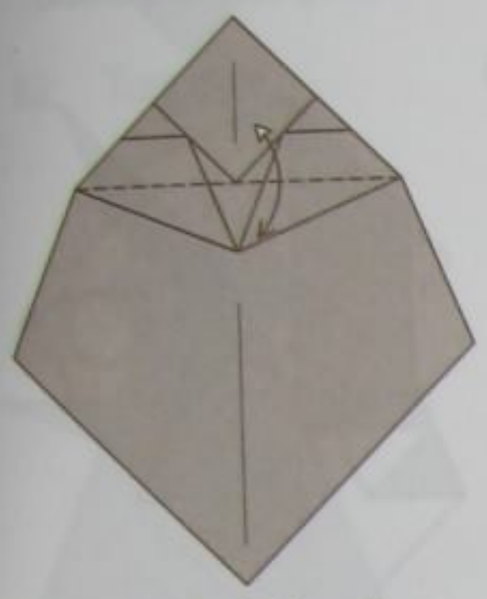
33. Closed-sink the darker triangle.



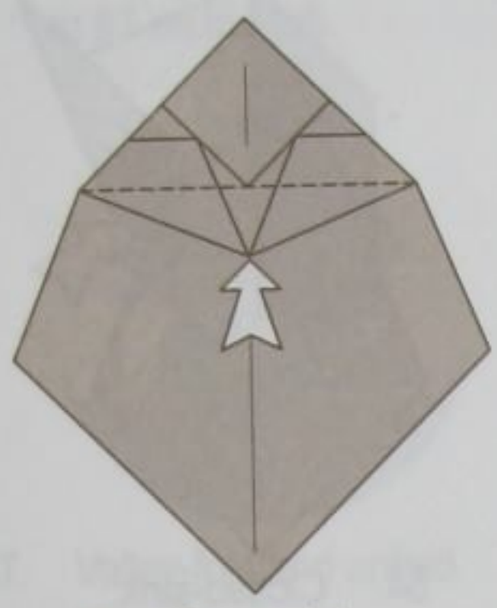
34. Valley-fold three corners to the left.



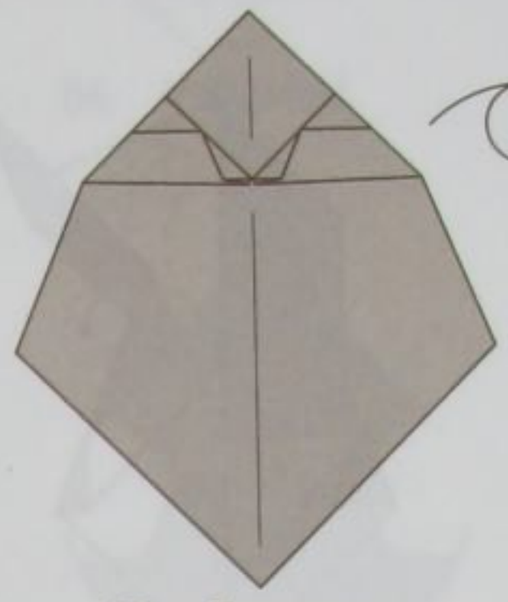
35. Repeat steps 29 to 34 on the right. Scale change.



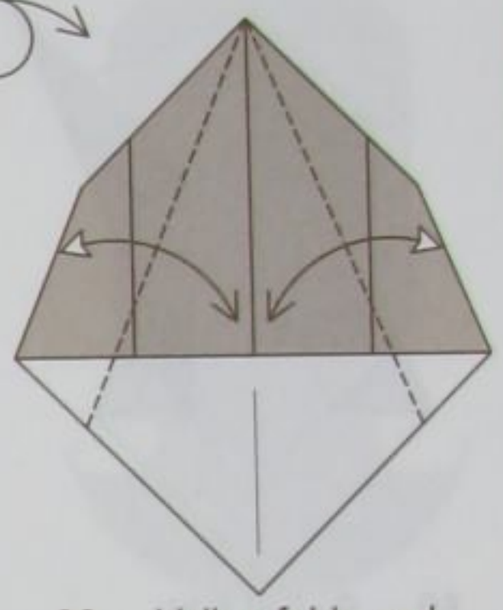
36. Valley-fold and unfold.



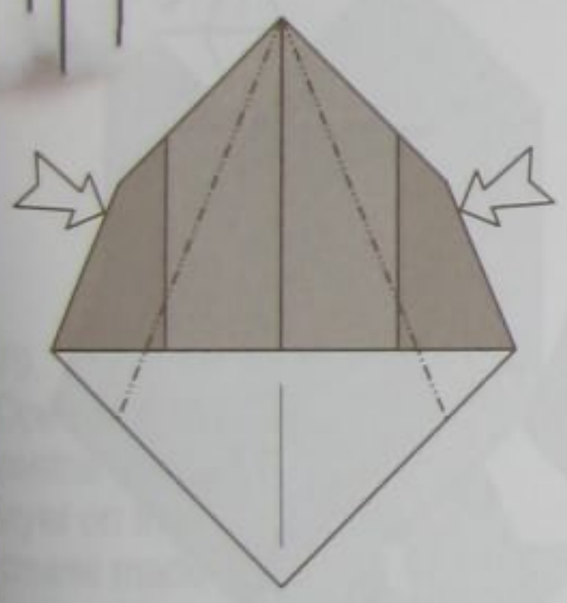
37. Open-sink.



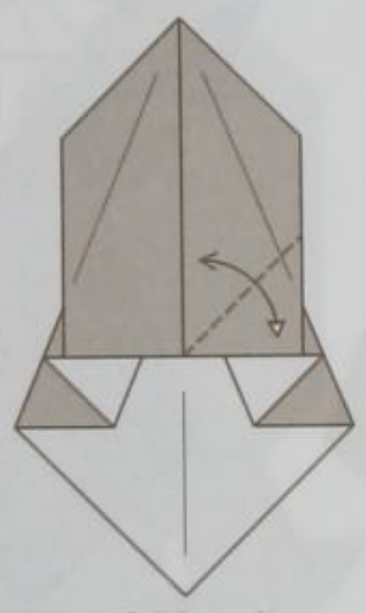
38. Turn over.



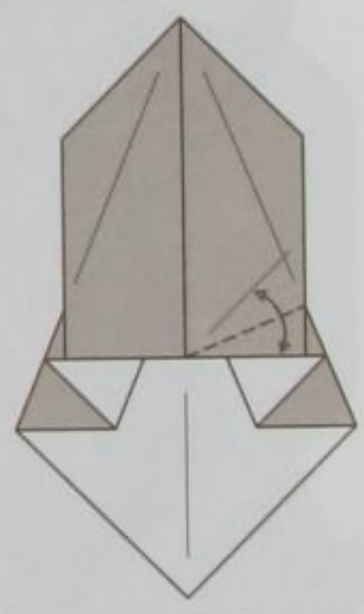
39. Valley-folds and unfold.



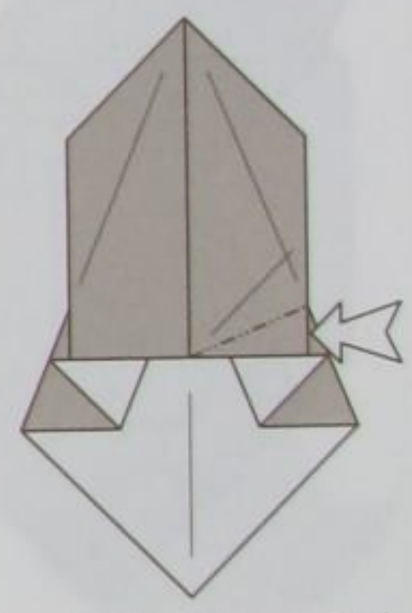
40. Closed-sink the lower layers only.



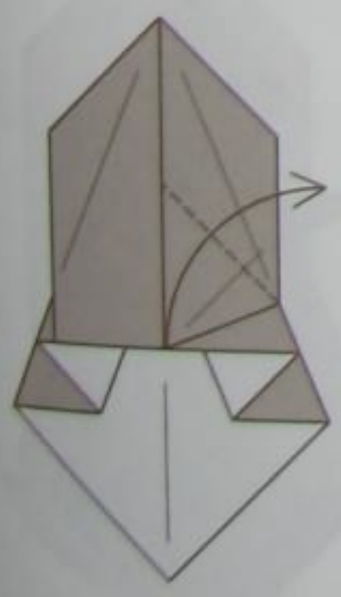
41. Valley-fold and unfold.



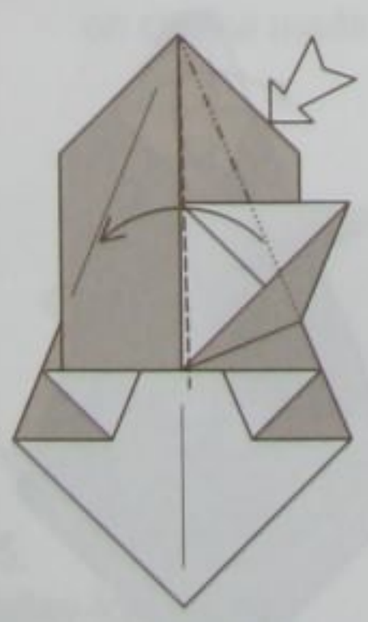
42. Valley-fold and unfold.



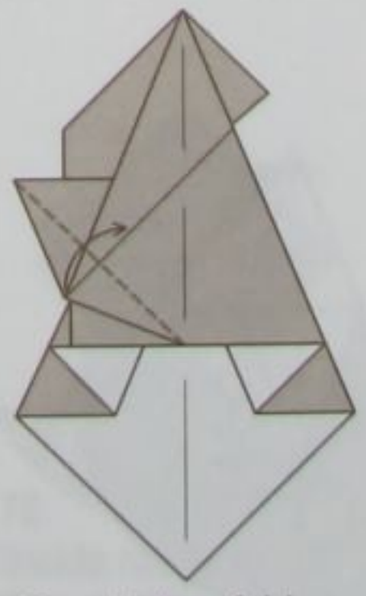
43. Inside reverse-fold.



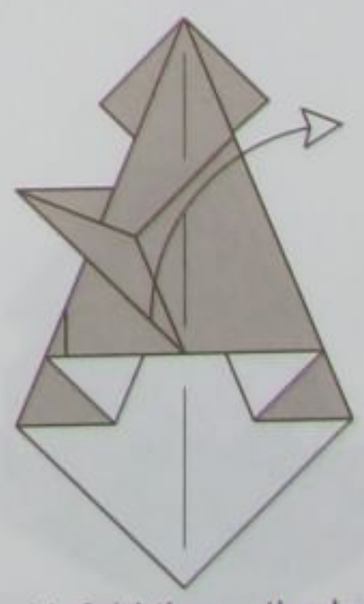
44. Valley-fold.



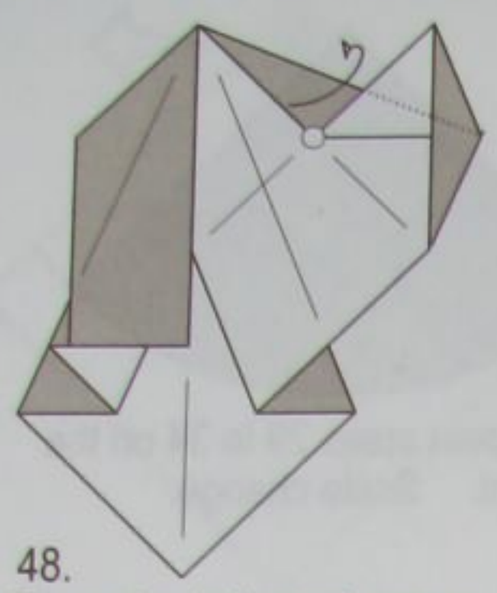
45. Squash-fold.



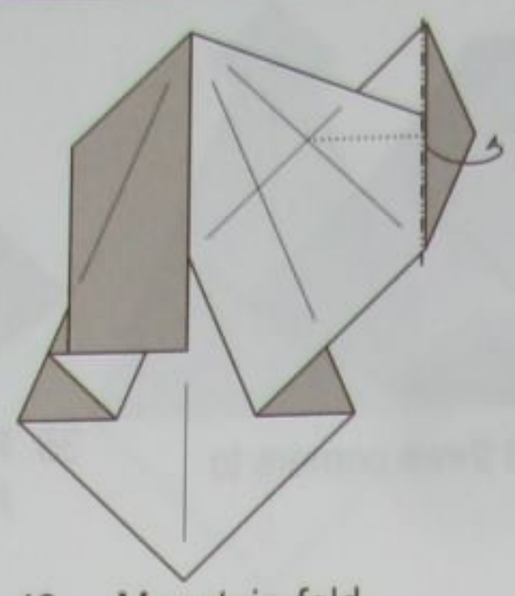
46. Valley-fold.



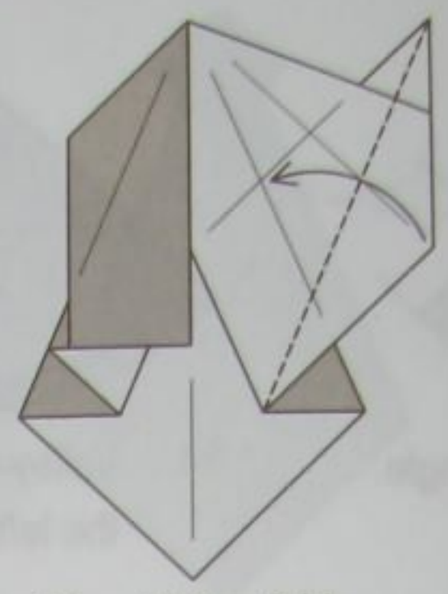
47. Unfold the entire layer to the right.



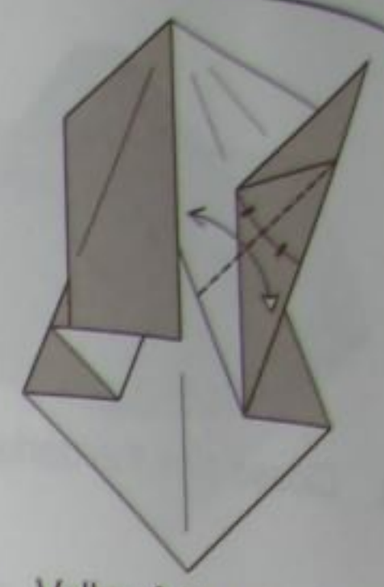
48.
Place the indicated corner into the pocket behind it.



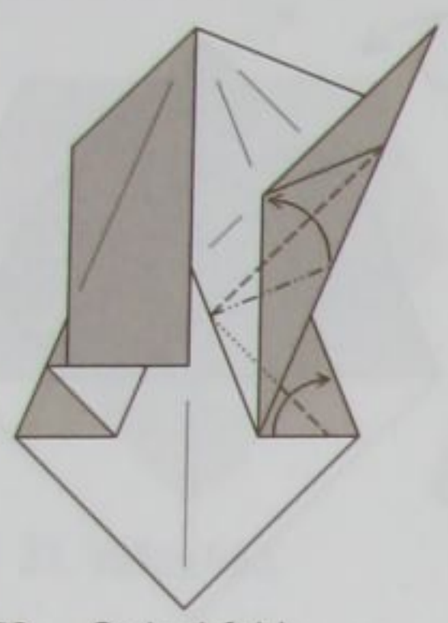
49. Mountain-fold.



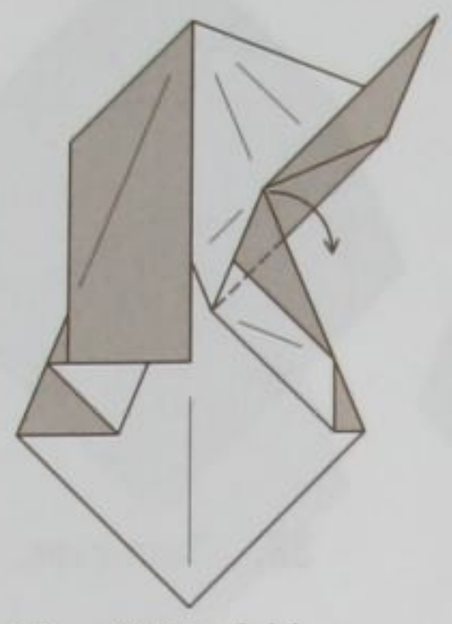
50. Valley-fold.



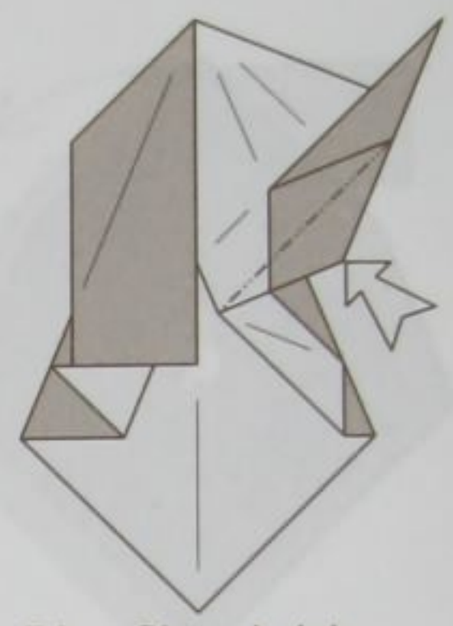
51. Valley-fold and unfold.



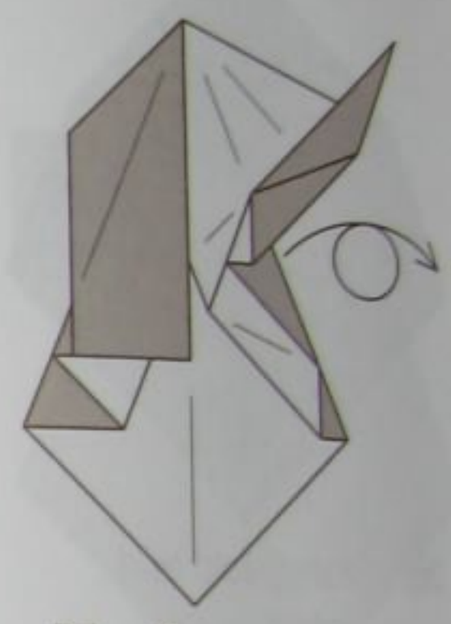
52. Swivel-fold.



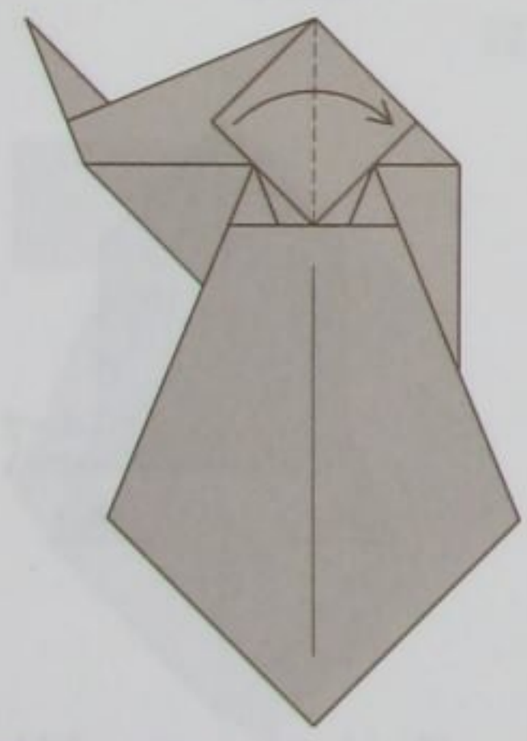
53. Valley-fold.



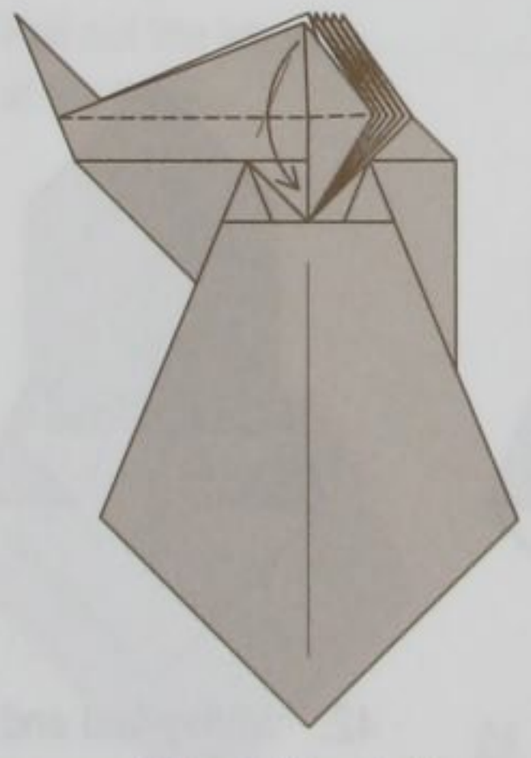
54. Closed-sink.



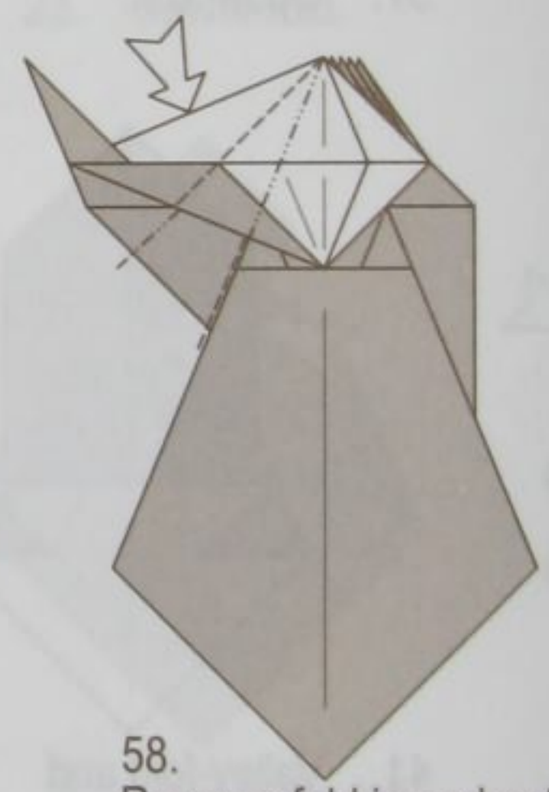
55. Turn over.



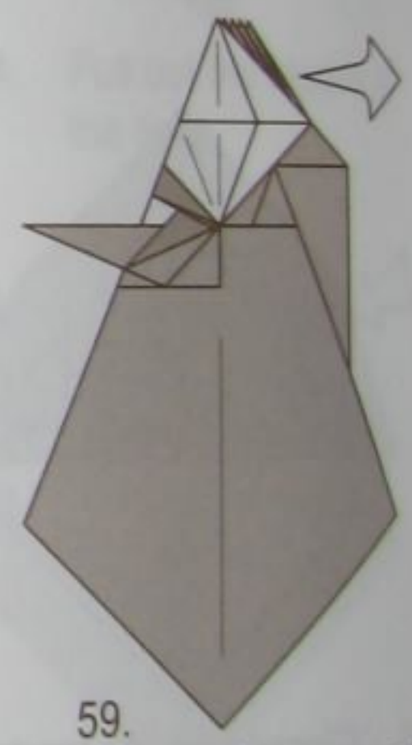
56. Valley-fold three corners to the right.



57. Valley-fold.

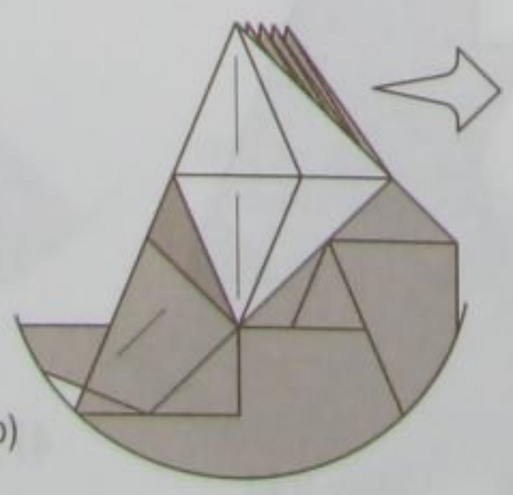


58.
Reverse-fold in and out.

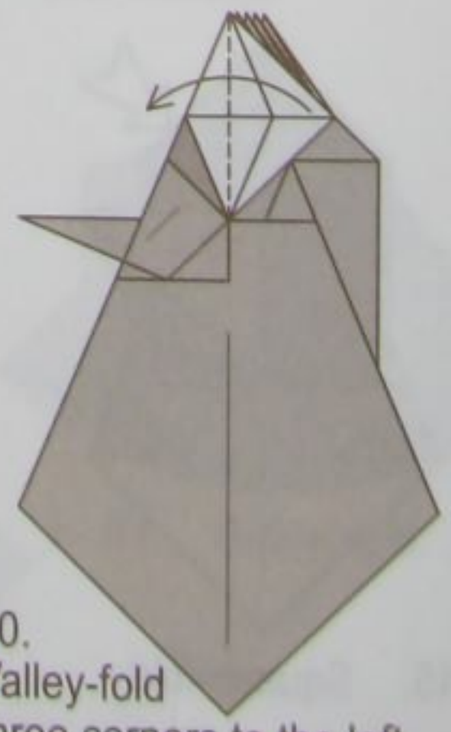


59.
Wrap the layer around to color-change.

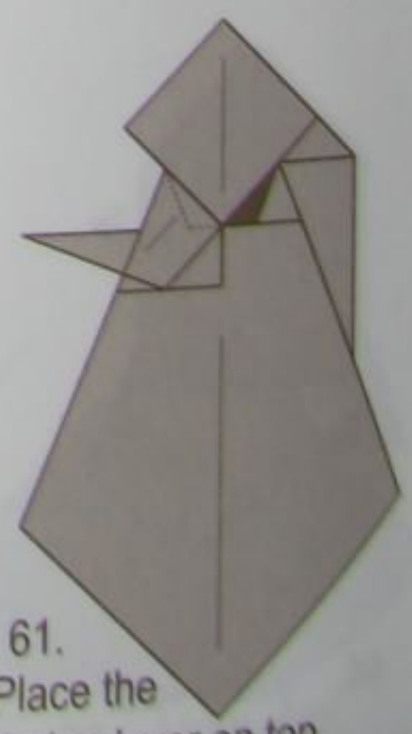
a)



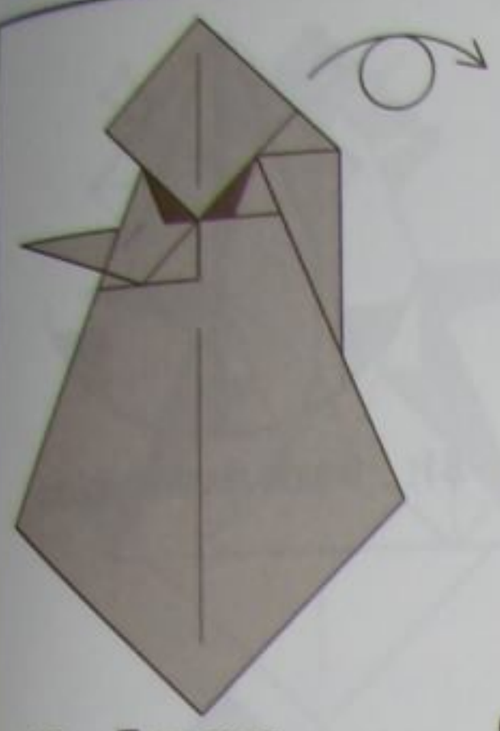
b)



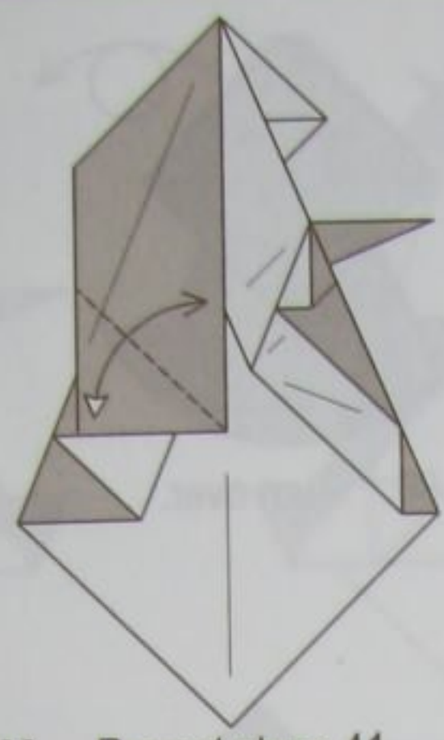
60.
Valley-fold three corners to the left.



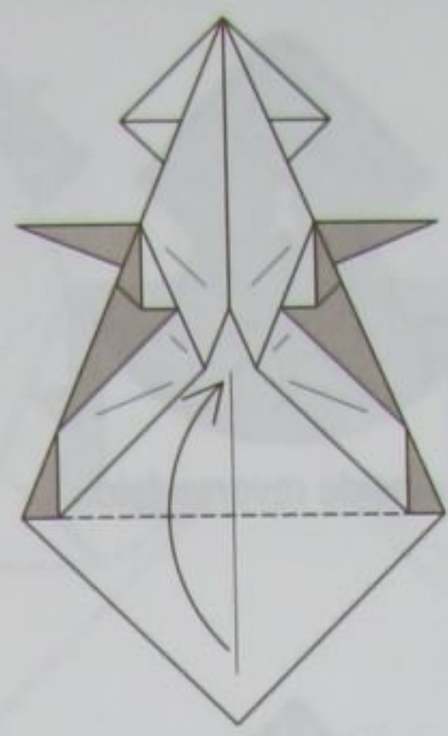
61.
Place the darker layer on top.



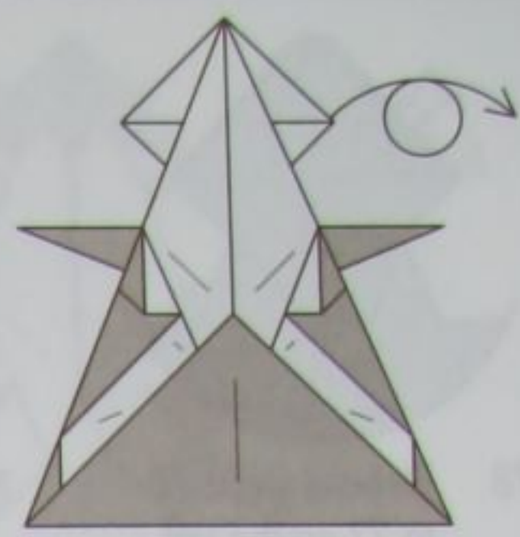
62. Turn over.



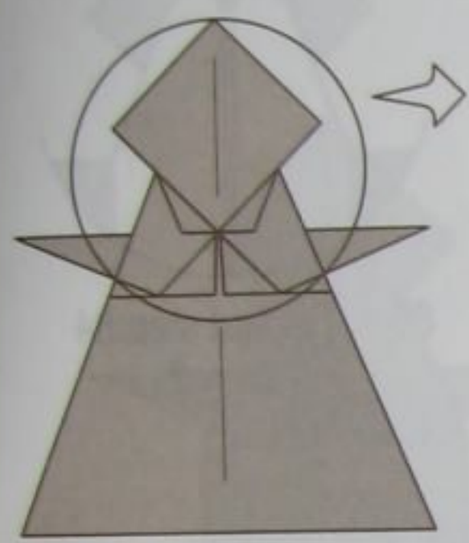
63. Repeat steps 41 to 61 on the left.



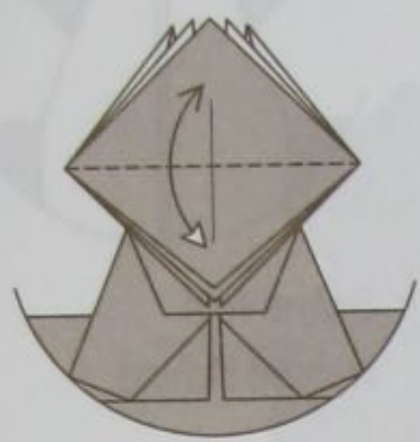
64. Valley-fold.



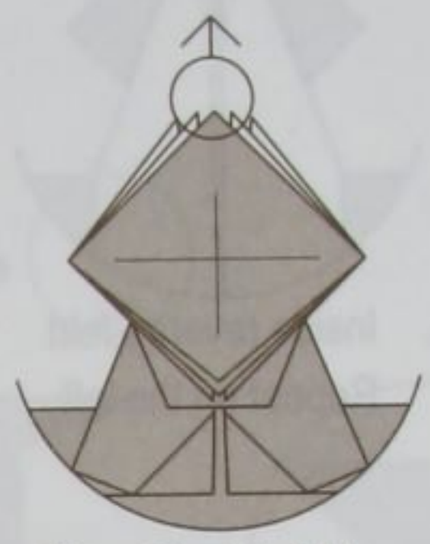
65. Turn over.



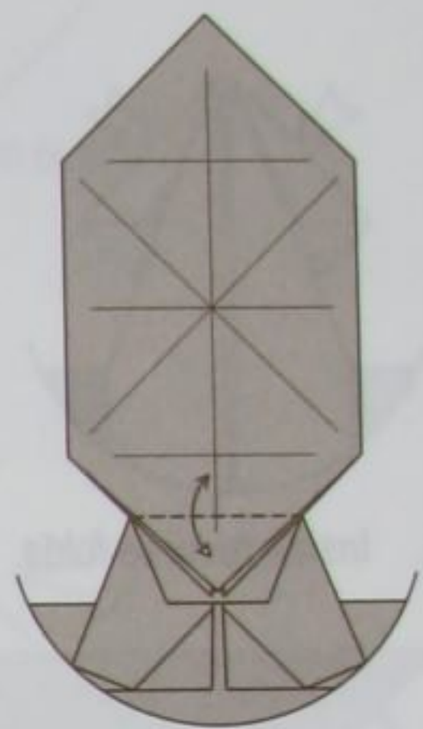
66. Enlarge.



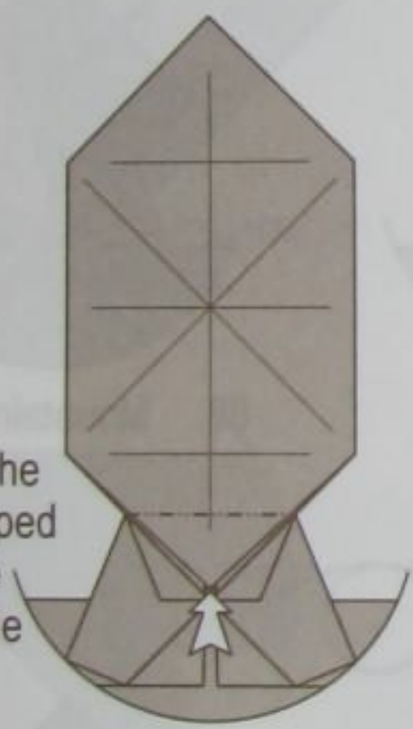
67. Valley-fold and unfold.



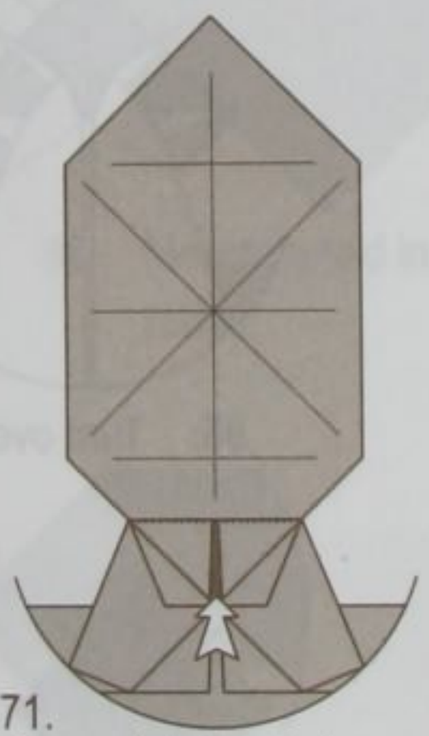
68. Stretch-fold.



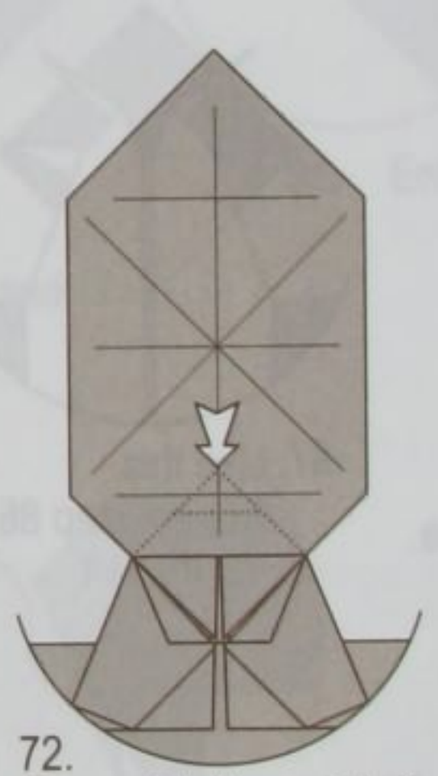
69. Valley-fold and unfold.



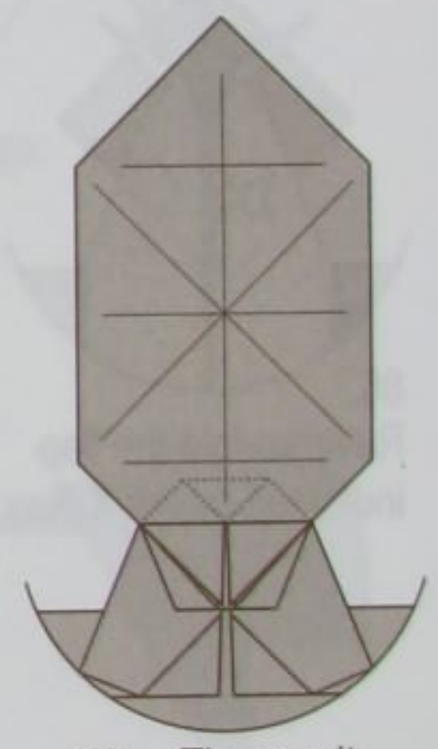
70. Open-sink the central trapped layer on the crease made in step 69.



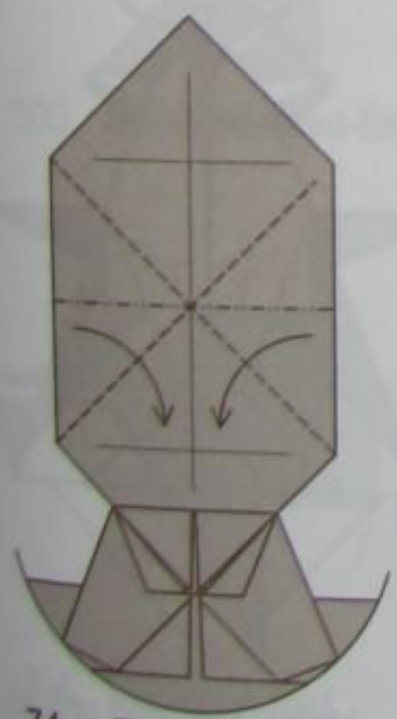
71. Open-sink the darker central trapped layer up on crease made in step 69.



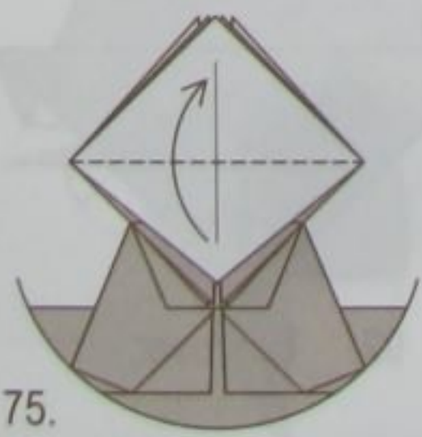
72. Open-sink the point of step down again half-way. 71



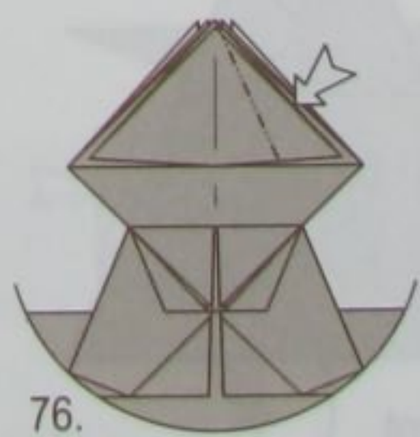
73. The result.



74. Preliminary-fold.

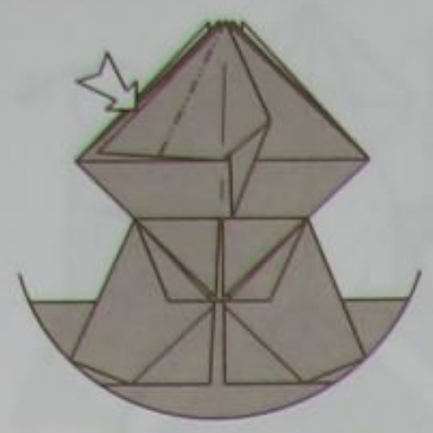


75. Valley-fold the raw corner up.

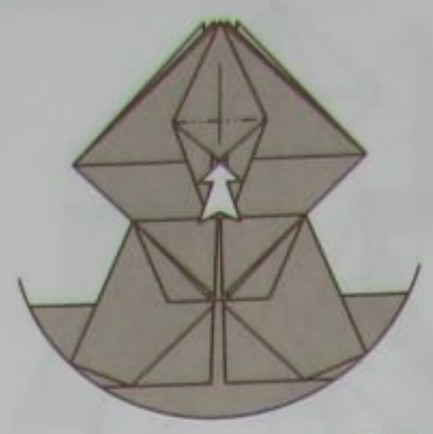


76. Inside reverse-fold. See position next step.

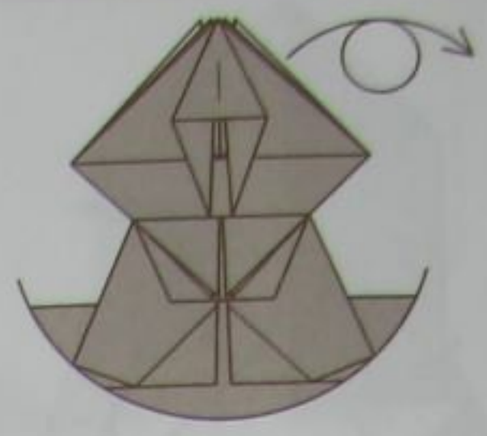
77. Petal-fold. Repeat behind.



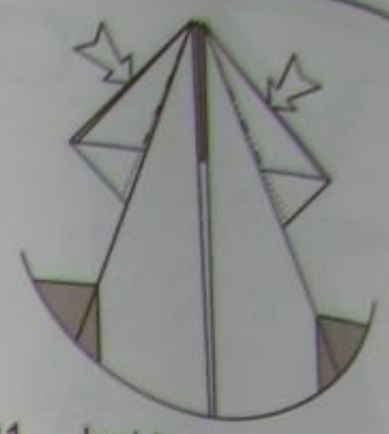
78. Repeat steps 76 to 77 on the left.



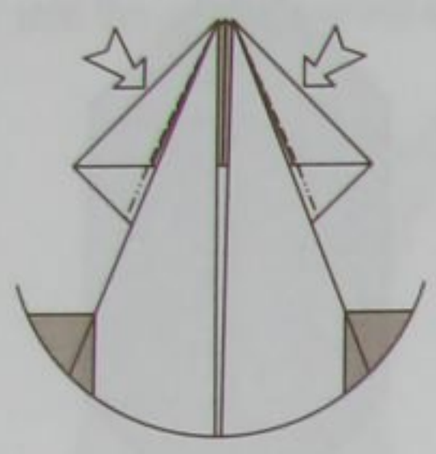
79. Inside reverse-fold.



80. Turn over.



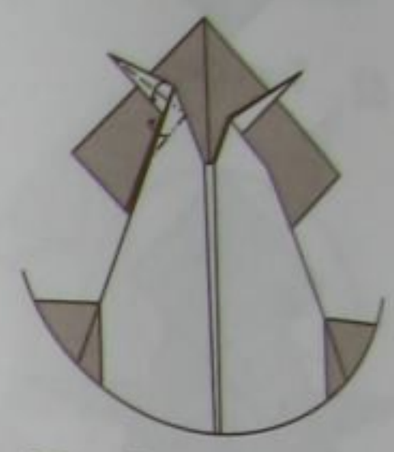
81. Inside reverse-folds.



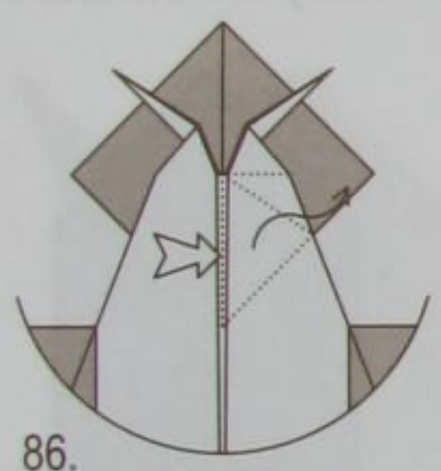
82. Inside reverse-folds.

83. Inside reverse-fold. Repeat on the left.

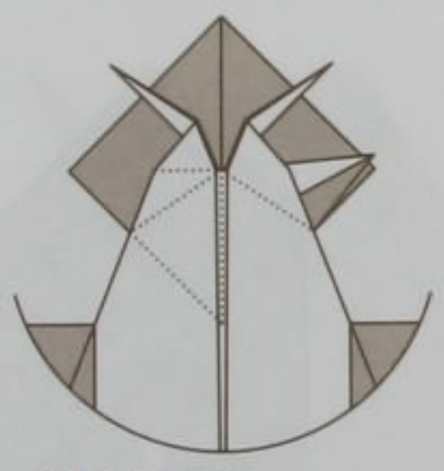
84. Swivel-fold. Repeat behind.



85. Repeat step 84 on the left.



86. Reverse-fold the flap indicated by the X-Ray line.

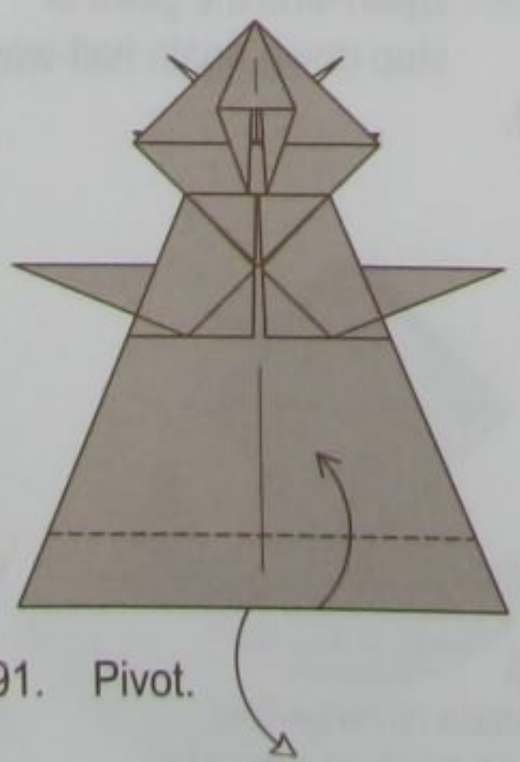


87. Like this. Repeat step 86 on the left.

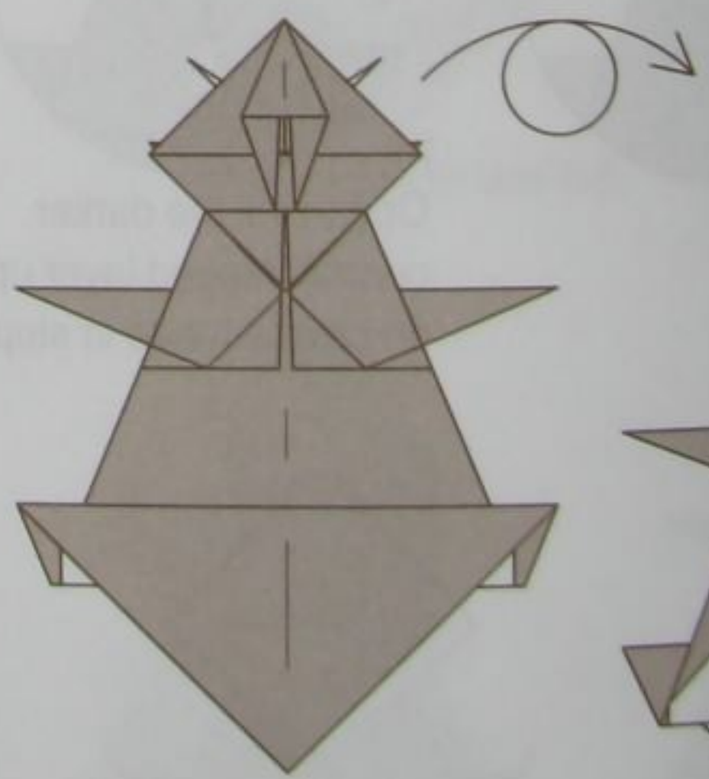
88. Turn over.

89. Mountain-folds.

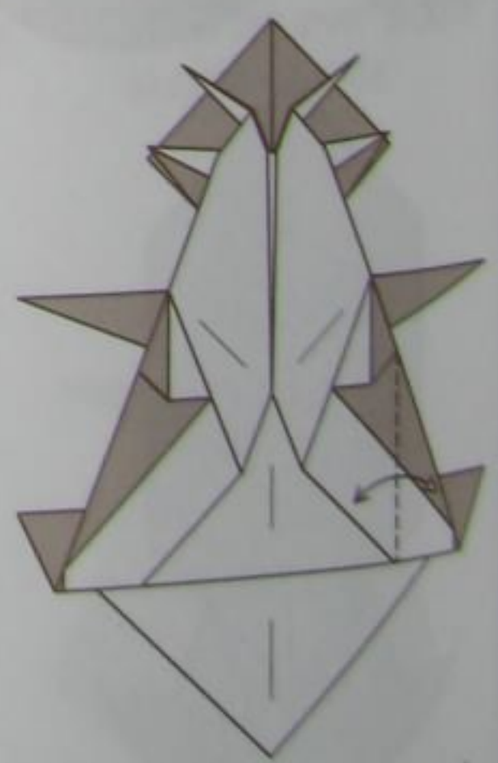
90. Scale change.



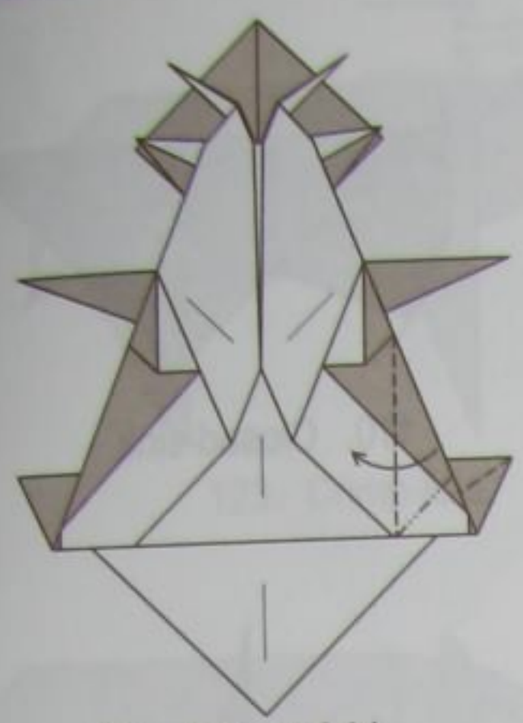
91. Pivot.



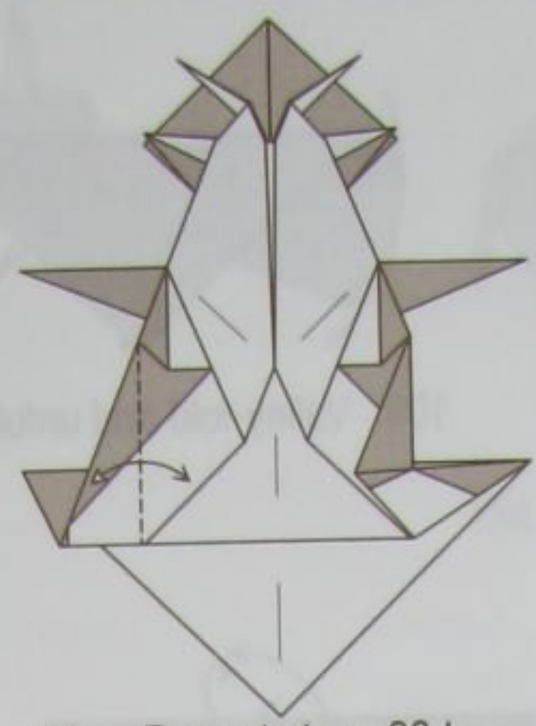
92. Turn over.



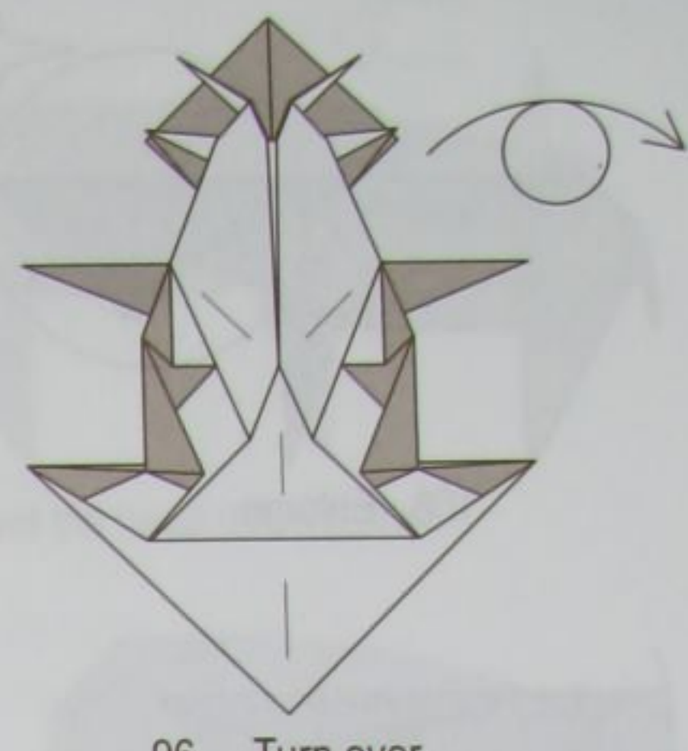
93. Valley-fold and unfold.



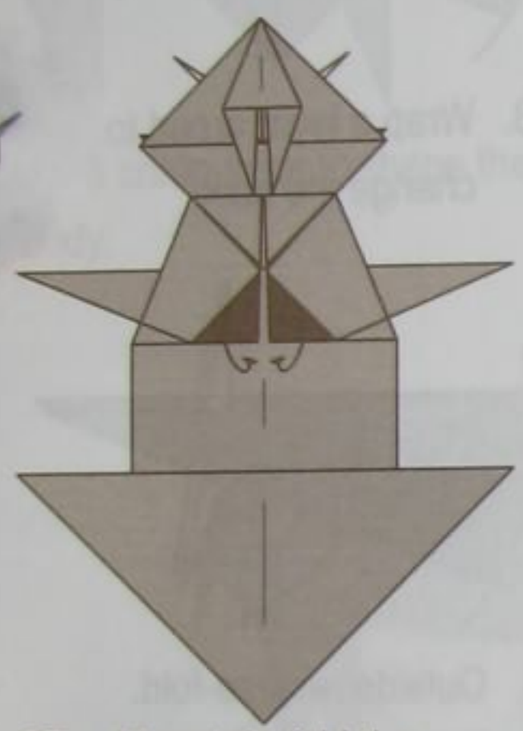
94. Swivel-fold.



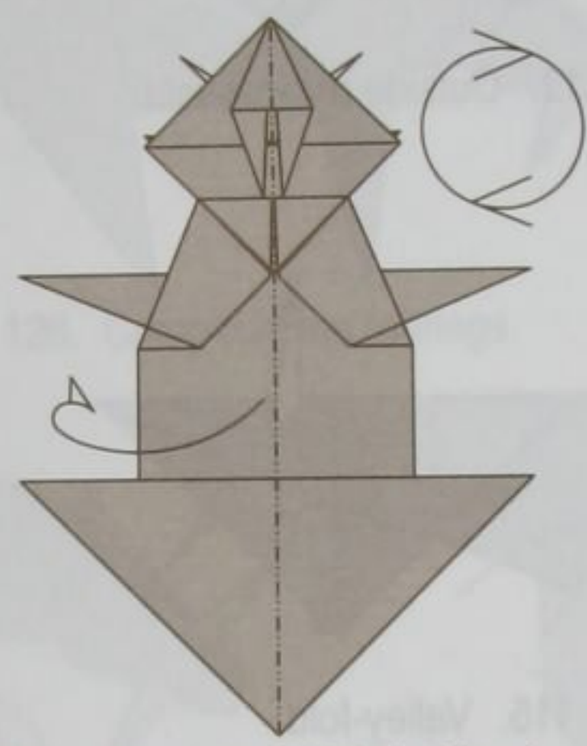
95. Repeat steps 93 to 94 on the left.



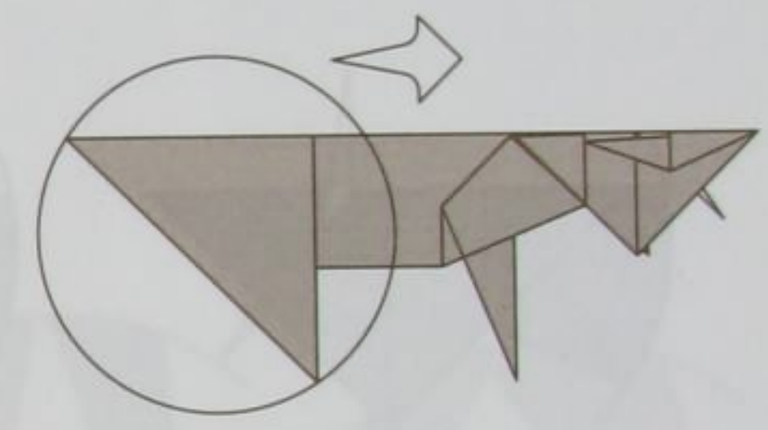
96. Turn over.



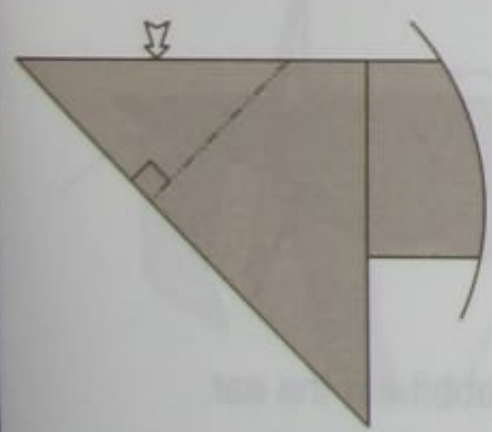
97. Mountain-fold the darker layers.



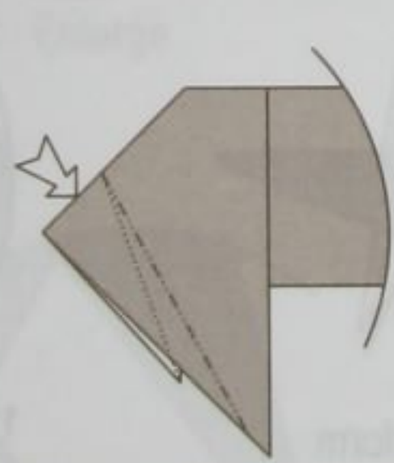
98. Mountain-fold in half and rotate.



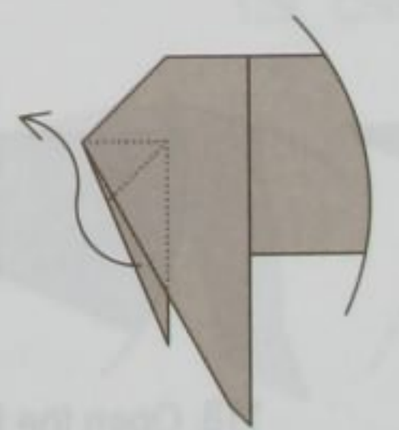
99. Enlarge.



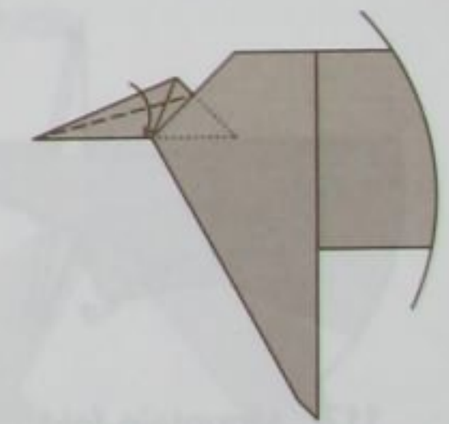
100. Inside reverse-fold.



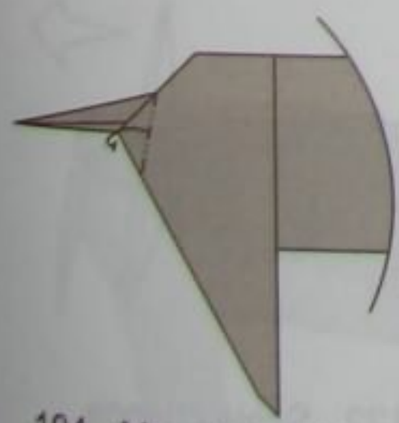
101. Inside reverse-fold. Repeat behind.



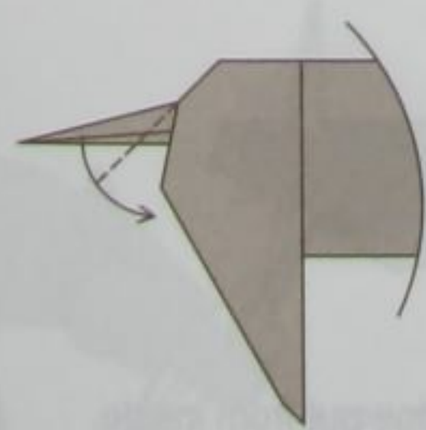
102. Reverse-fold the ail up.



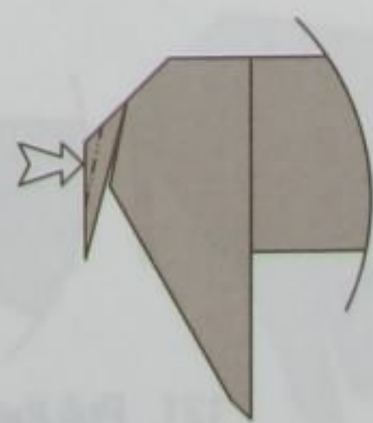
103. Inside reverse-fold. Repeat behind.



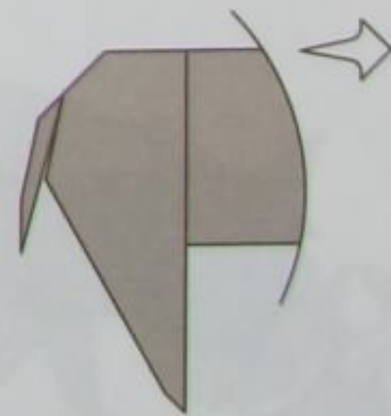
104. Mountain-fold. Repeat behind.



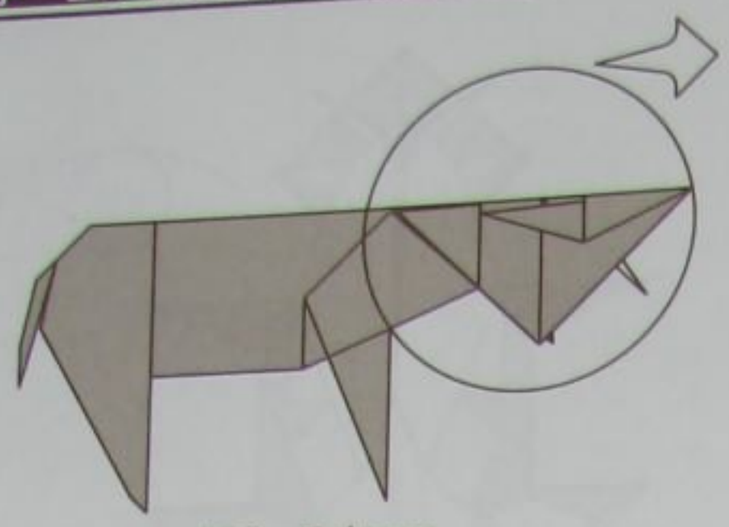
105. Outside reverse-fold.



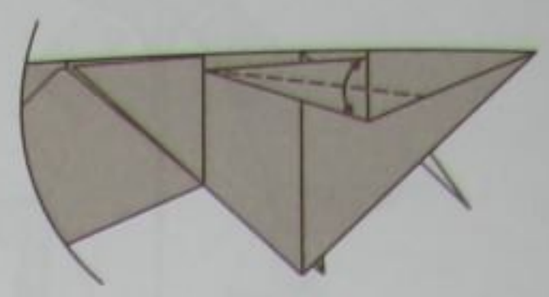
106. Open-sink.



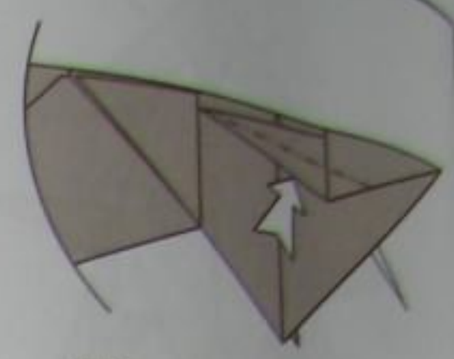
107. Scale change.



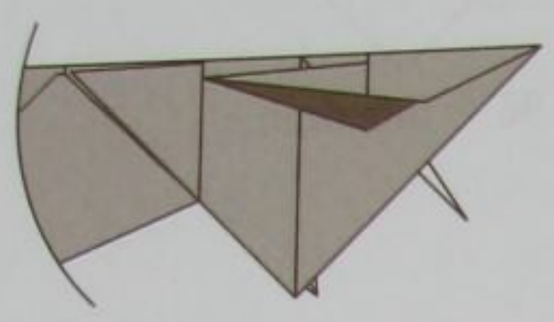
108. Enlarge.



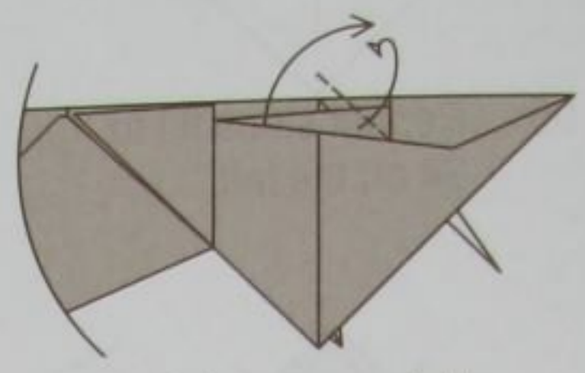
109. Valley-fold and unfold.



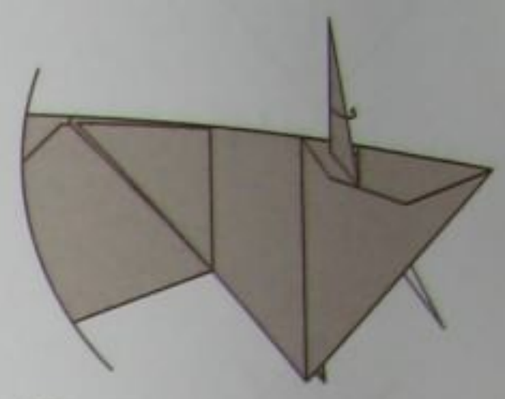
110. Closed-sink.



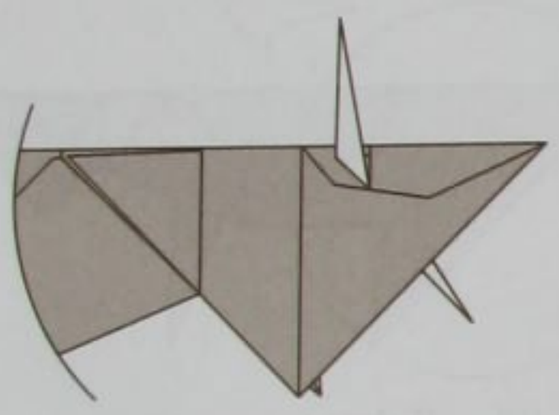
111. Open-sink the darker layer.



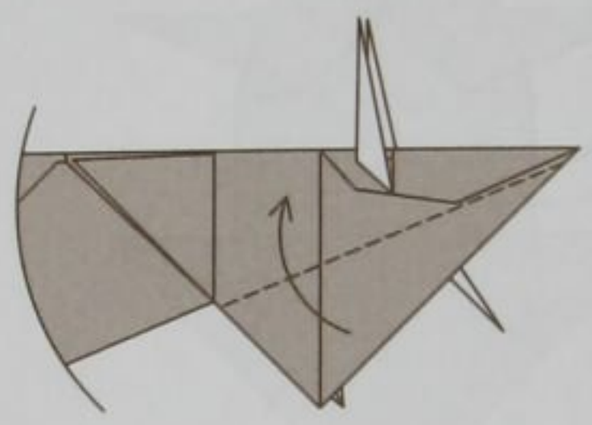
112. Outside reverse-fold.



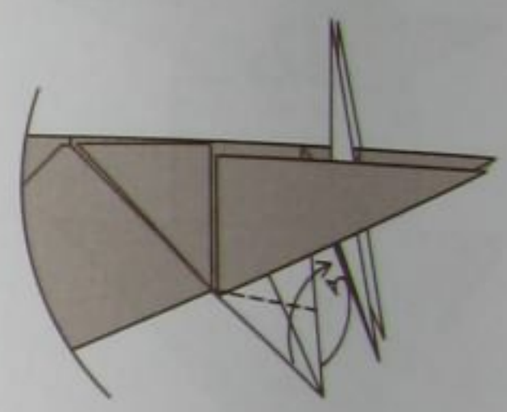
113. Wrap a layer aroud to color-change the tusk.



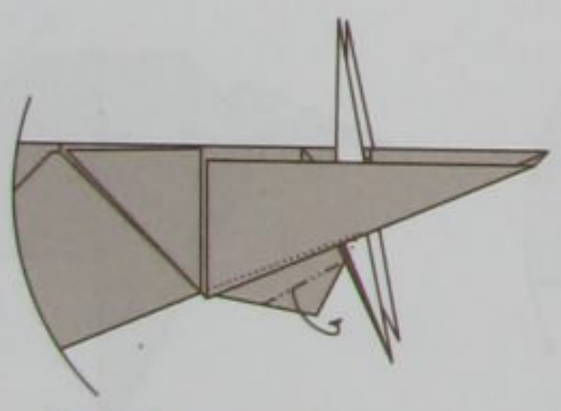
114. Repeat steps 109 to 113 behind.



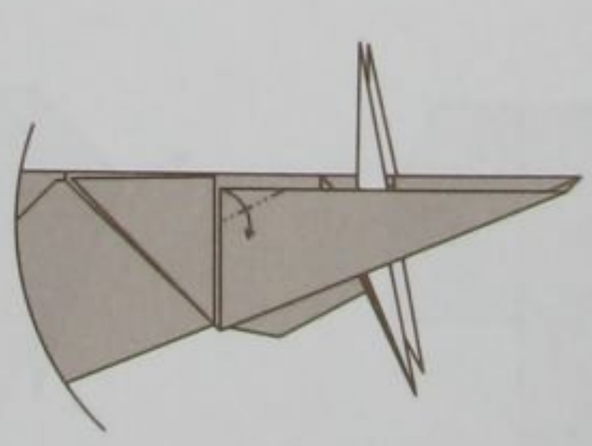
115. Valley-fold. Repeat behind.



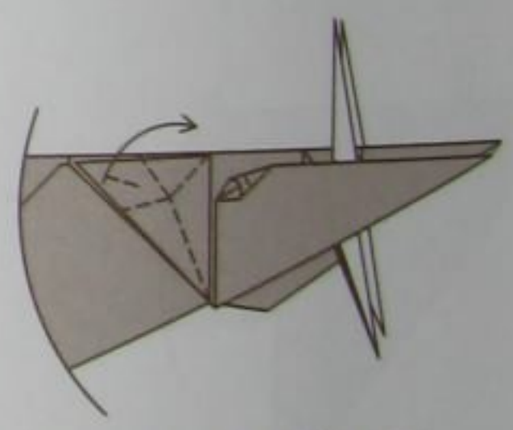
116. Outside reverse-fold. Repeat behind.



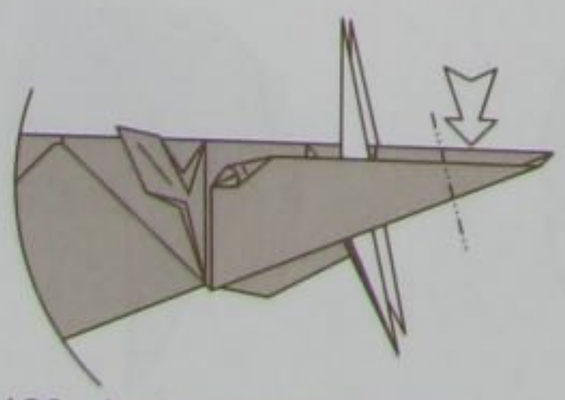
117. Mountain-fold. Repeat behind.



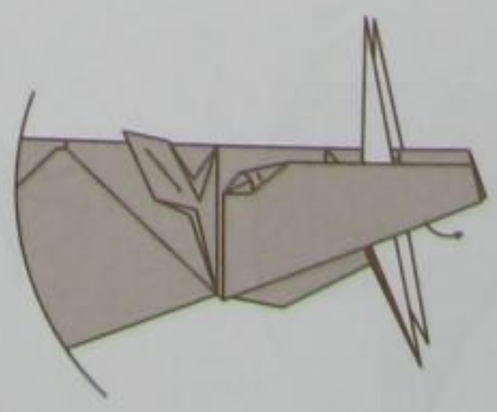
118. Open the layers to form the eye. Repeat behind.



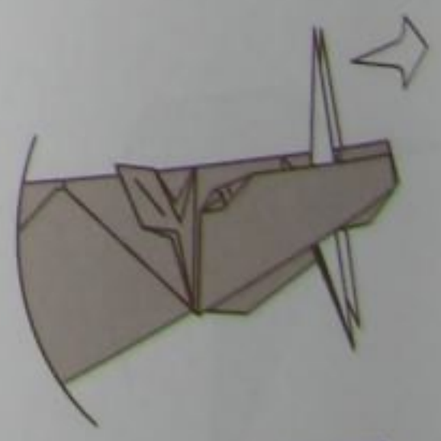
119. Rabbit-ear the ear. Repeat behind.



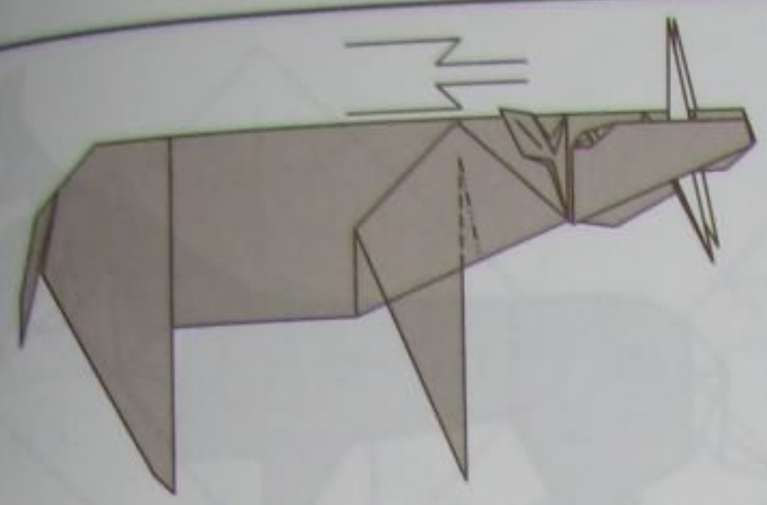
120. Inside reverse-fold.



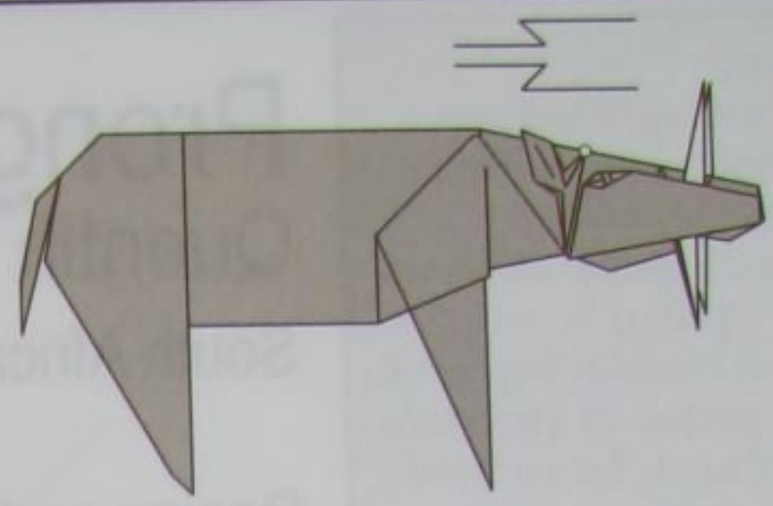
121. Pull the raw edge out from inside. Repeat behind.



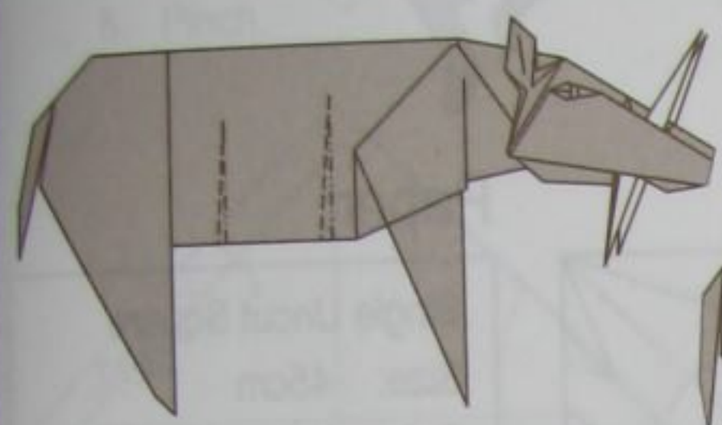
122. Scale change.



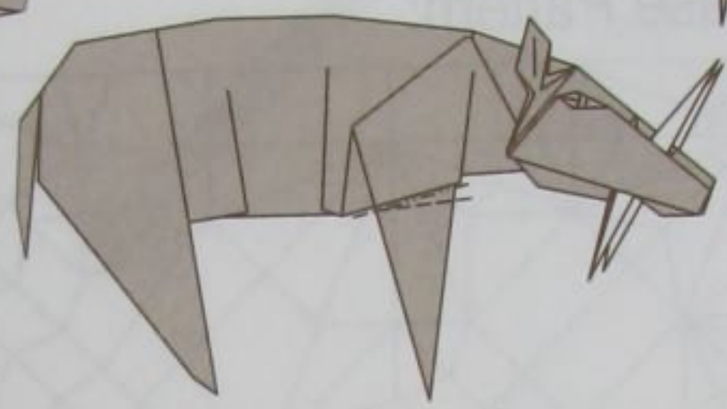
123. Crimp-fold.



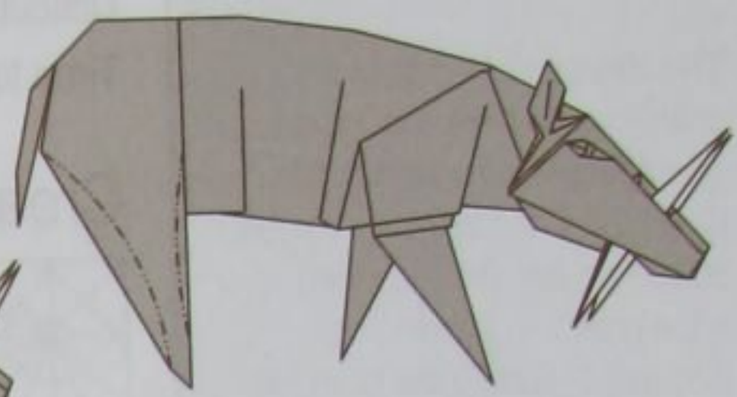
124. Pivot the head down further.



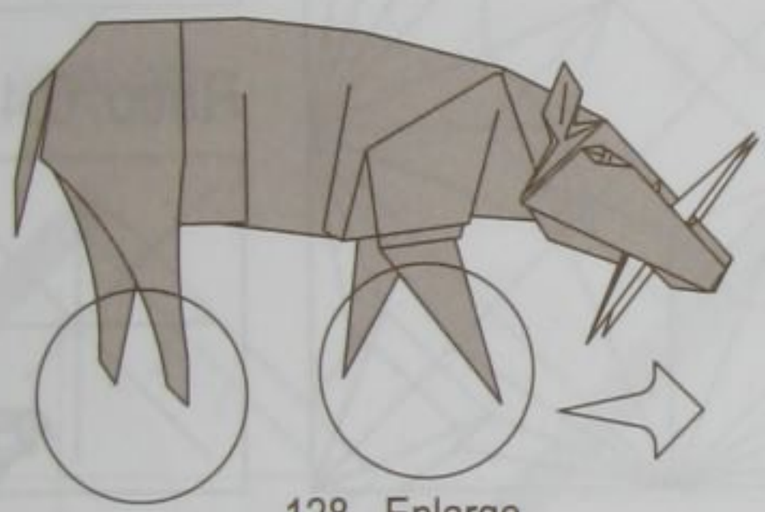
125. More crimp-folds to shape the body.



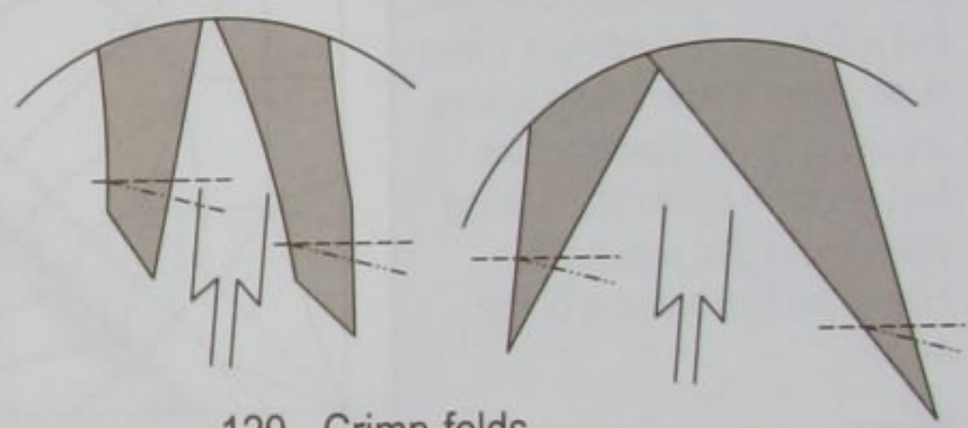
126. Crimp-fold the forelegs.



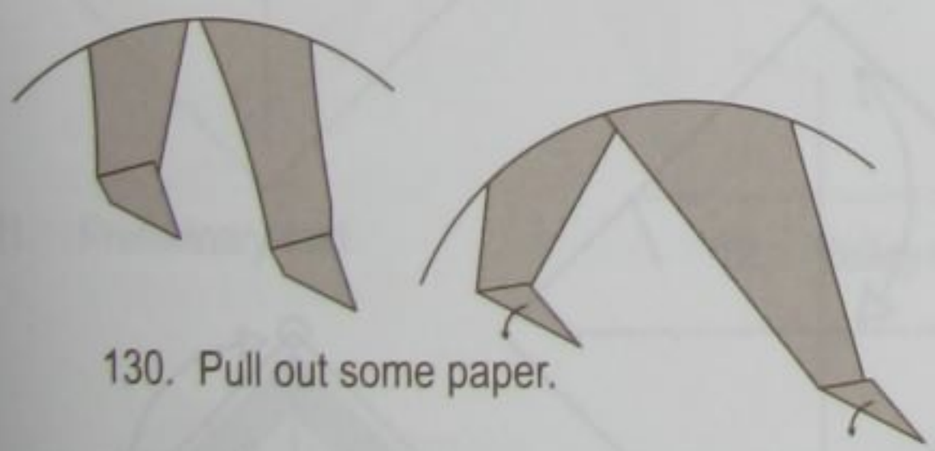
127. Shape the hind legs.



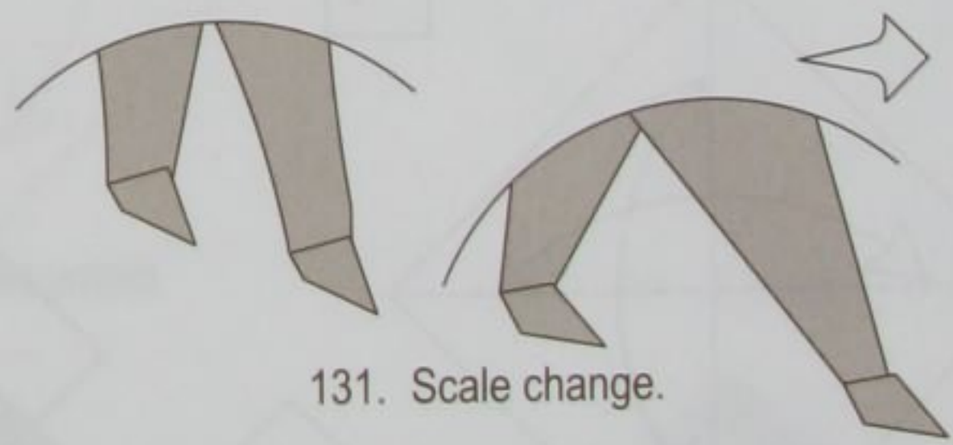
128. Enlarge.



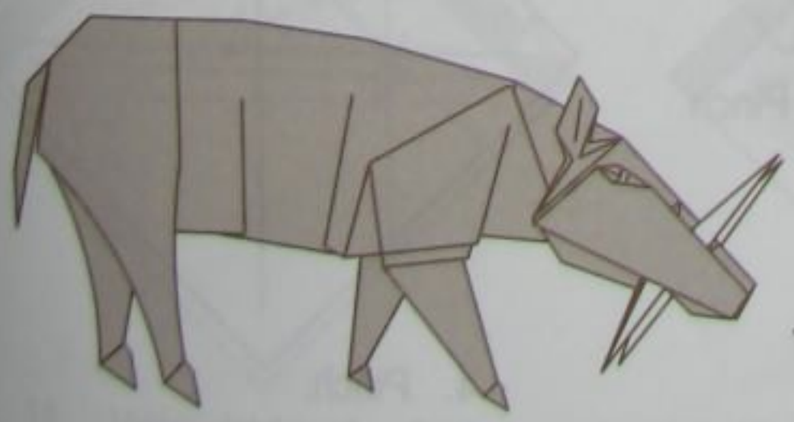
129. Crimp-folds.



130. Pull out some paper.



131. Scale change.



132. Curve the tusks.
Shape the body.

Babirusa.

Pronghorn
The second fastest land animal, but the world champion over long distances, the Pronghorn antelope is a peculiar animal and the only species of its family. The horns are unusual as they consist of a horny sheath on a bony core (as in antelopes), but are forked and shed yearly (as a deer's antlers). It is named after the "prong" on its horns.

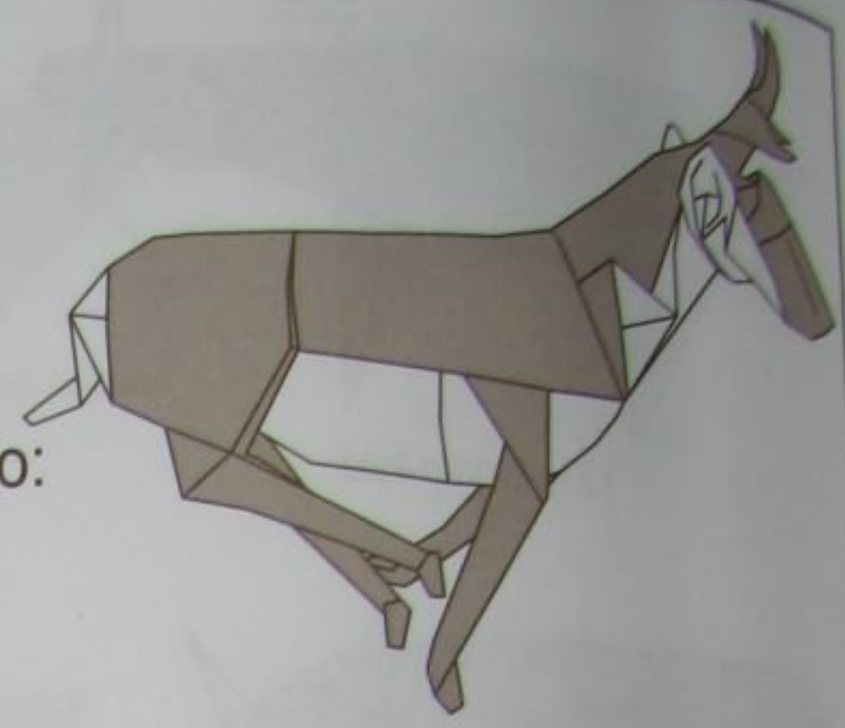
This design came about after a challenge by Mike Van Horne. The difficult part was actually doing the white colour-changed stripes on the neck. I added an edge graft that serves the purpose of adding the prong to the horn, as well as lengthen the front legs. You can see this in the structure of the cp.

I suggest using a very thin paper to achieve well-shaped horns and also to minimise the thickness of the colour-changed layers on the body. For your first attempt, use a large paper! You will have to play around with the shaping of the legs to give the animal a running pose. Looking at pictures can help in the final shaping of the model.

# Pronghorn

## Quentin Trollip

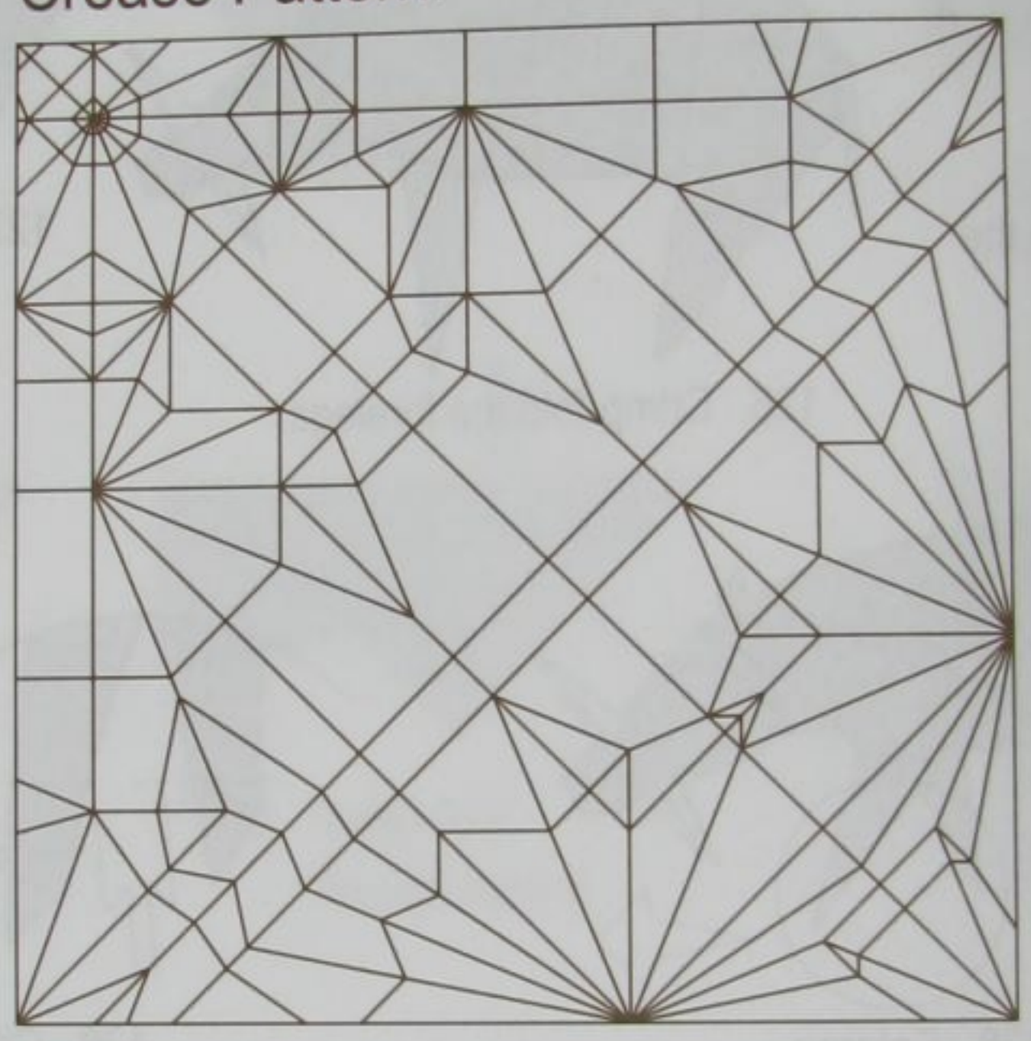
South Africa / Canada



## Design and diagram info:

Date: 11 July 2010
Difficulty: Complex
Time to fold: 2 Hours

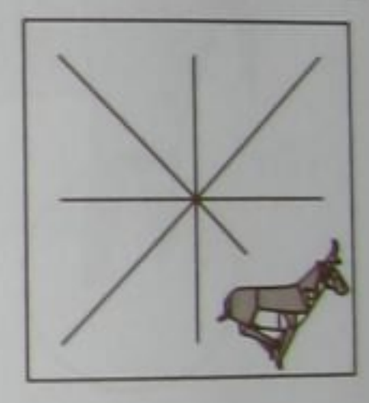
## Crease Pattern:

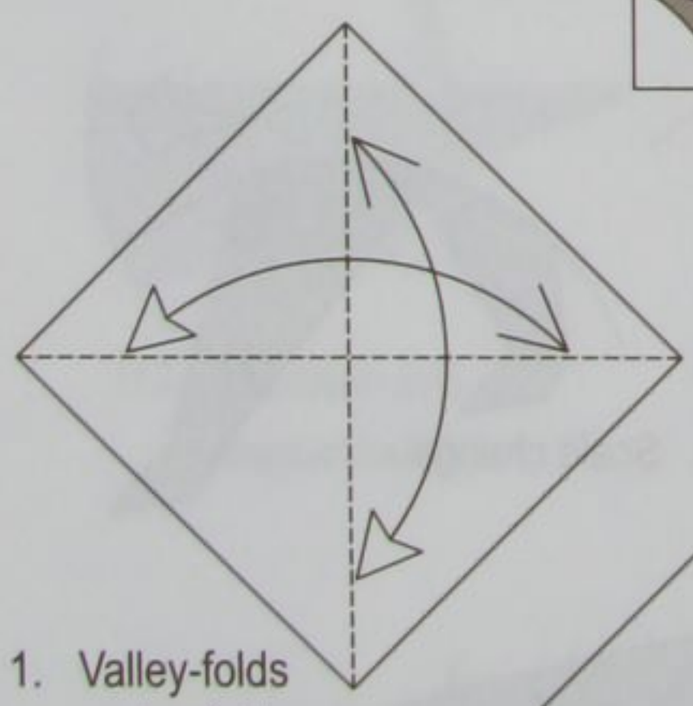


## Paper:

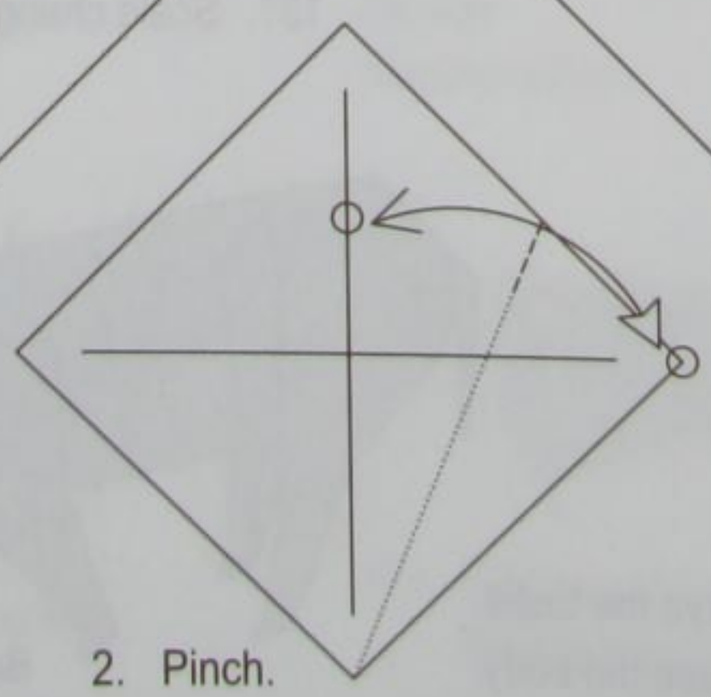
Single Uncut Square
Size: 45cm
Color: White-Brown
Type: Kami — No
Foil — Ok
Wet-Fold — Best

## Ratio: 0.42 Length

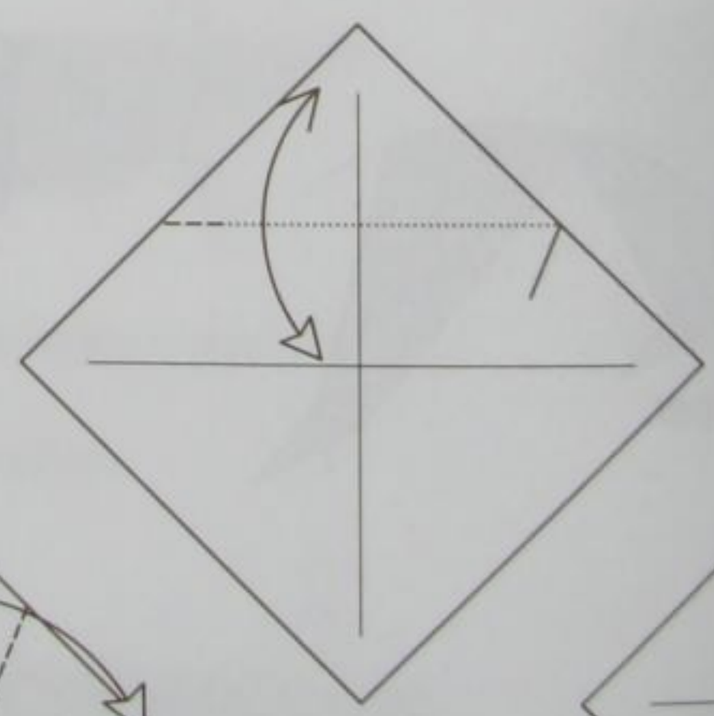




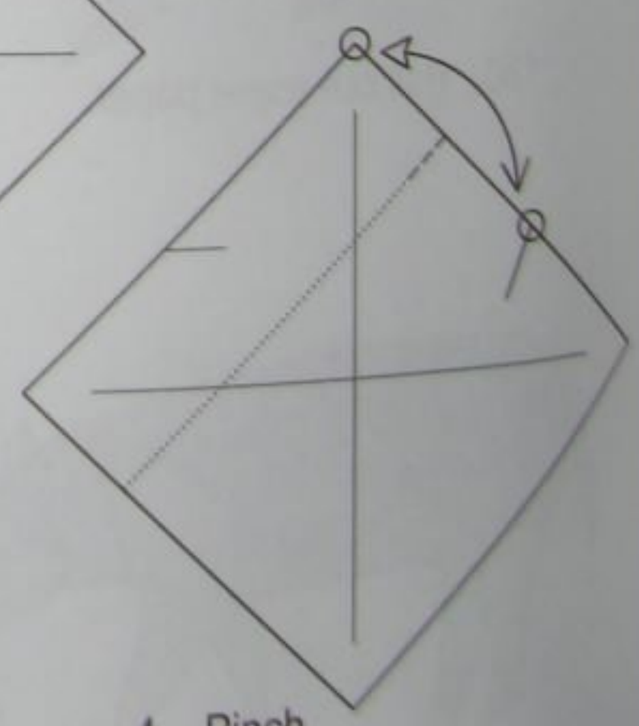
1. Valley-folds and unfold.



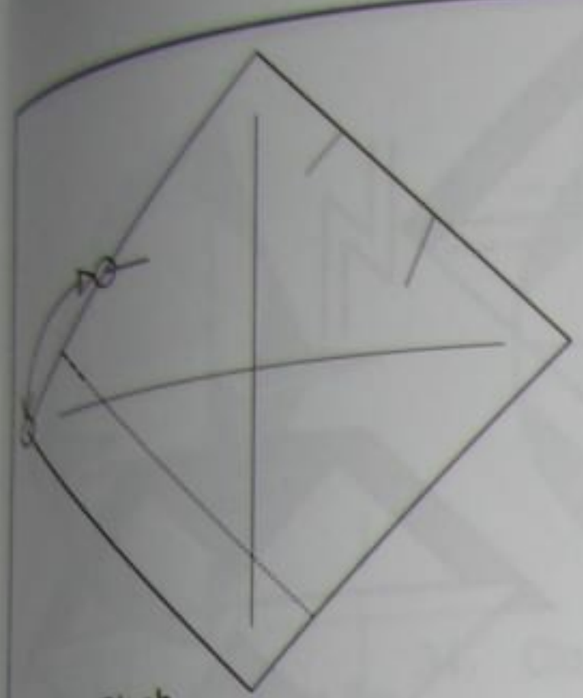
2. Pinch.



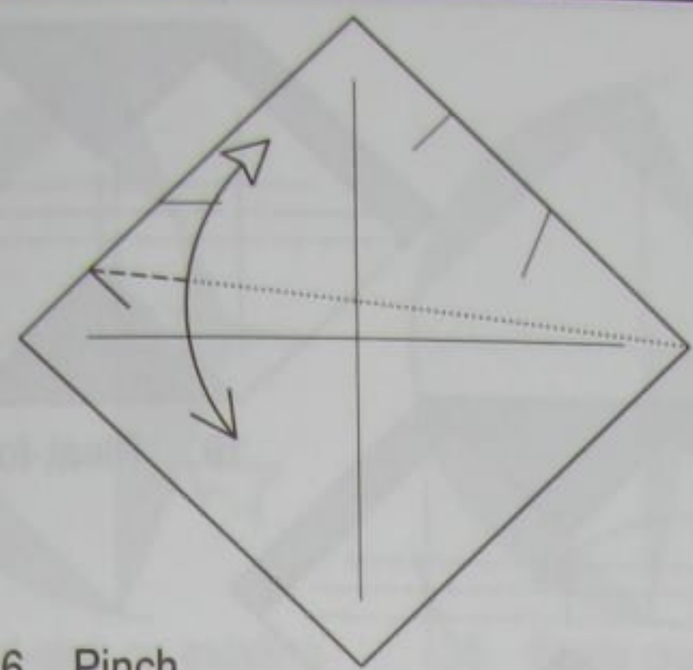
3. Pinch.



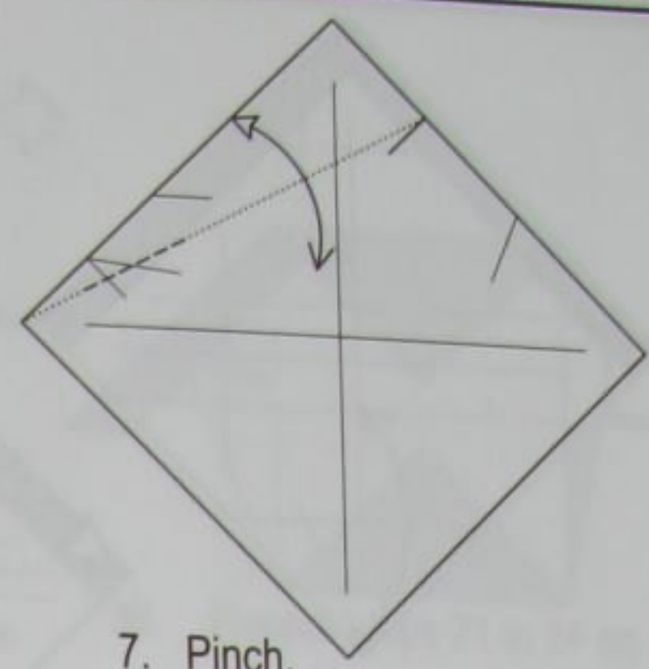
4. Pinch.



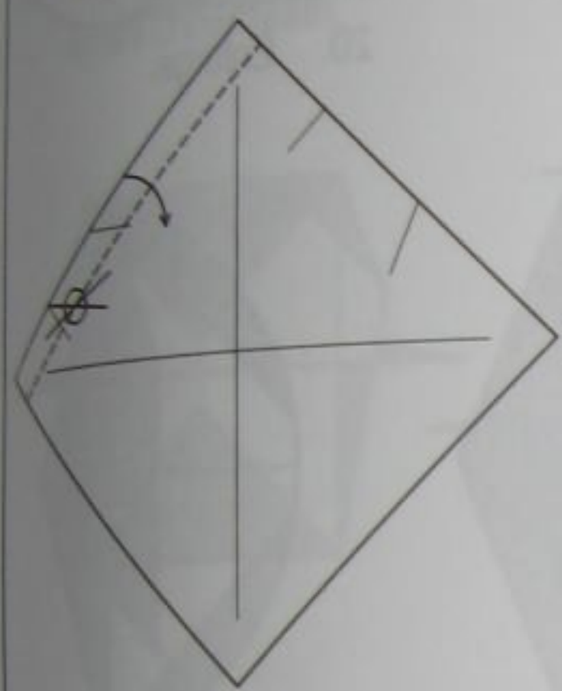
5. Pinch.



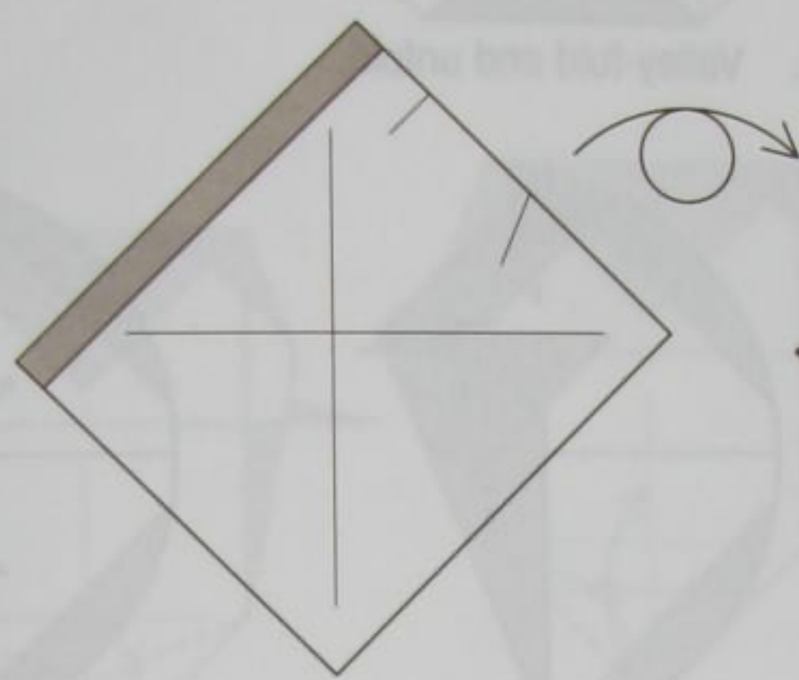
6. Pinch.



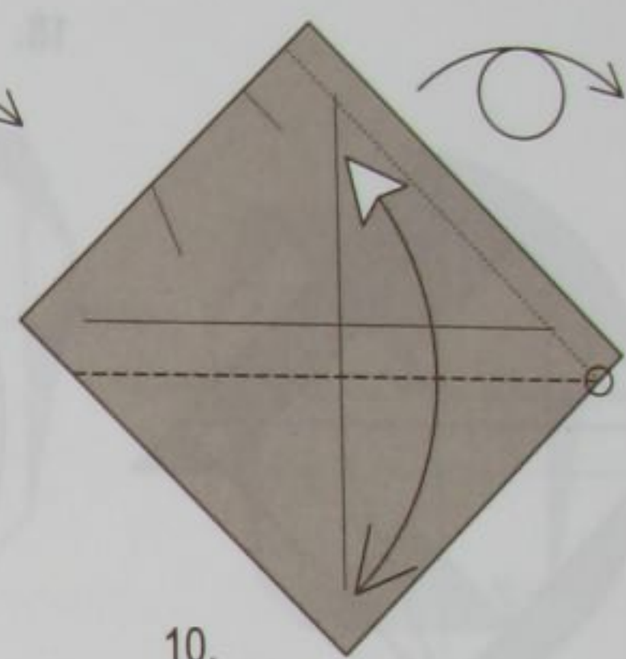
7. Pinch.



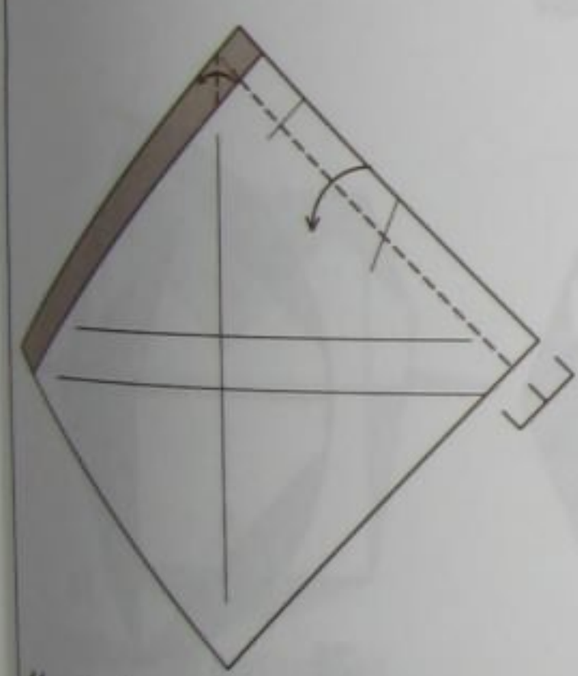
8. Valley-fold.



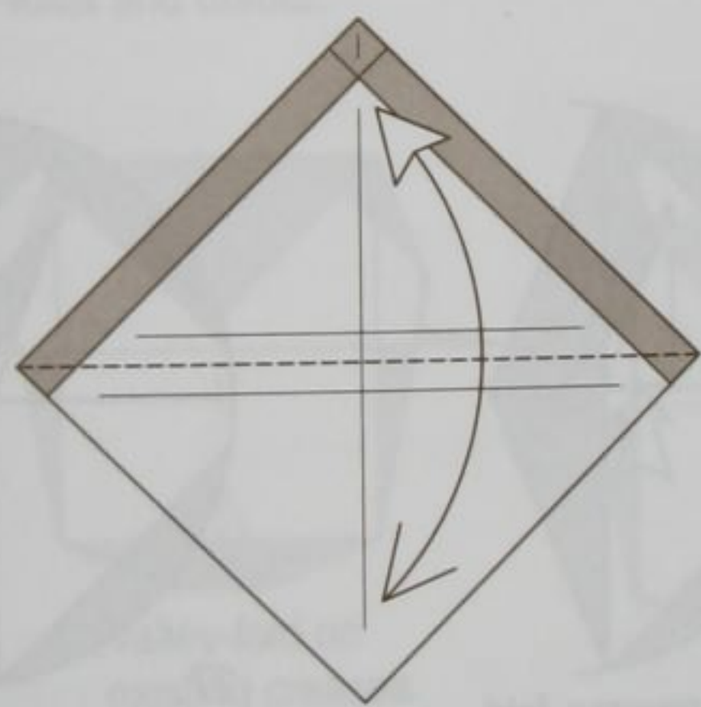
9. Turn over.



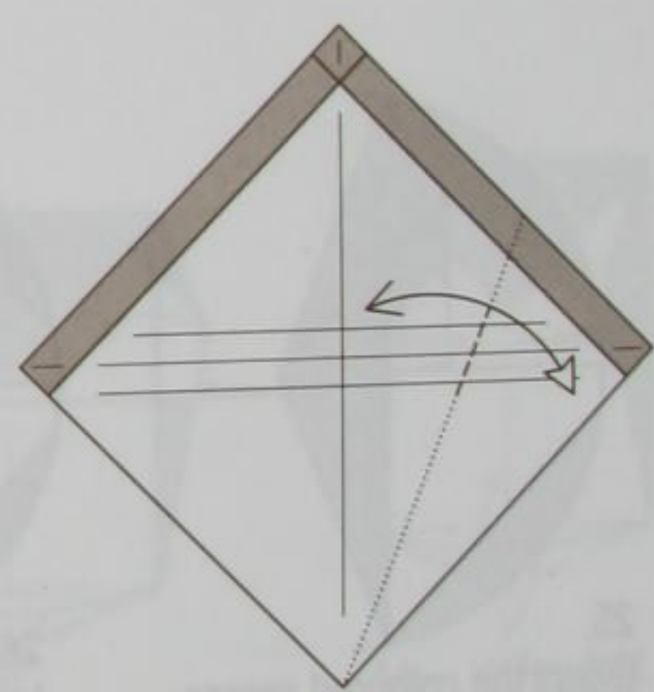
10. Valley-fold and unfold. Turn over.



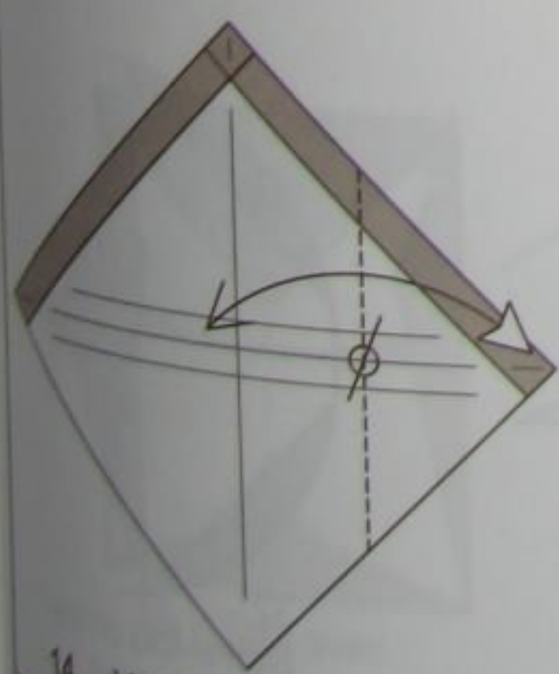
11. Preliminary-fold.



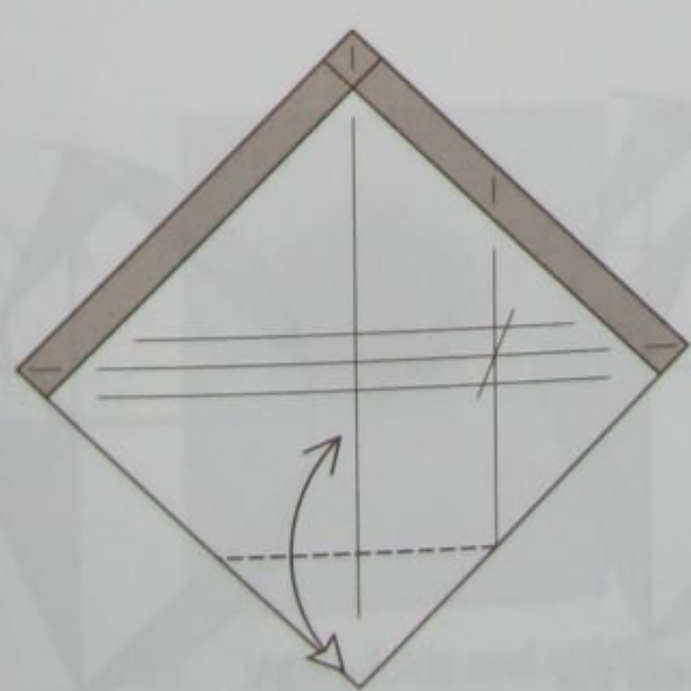
12. Valley-fold and unfold.



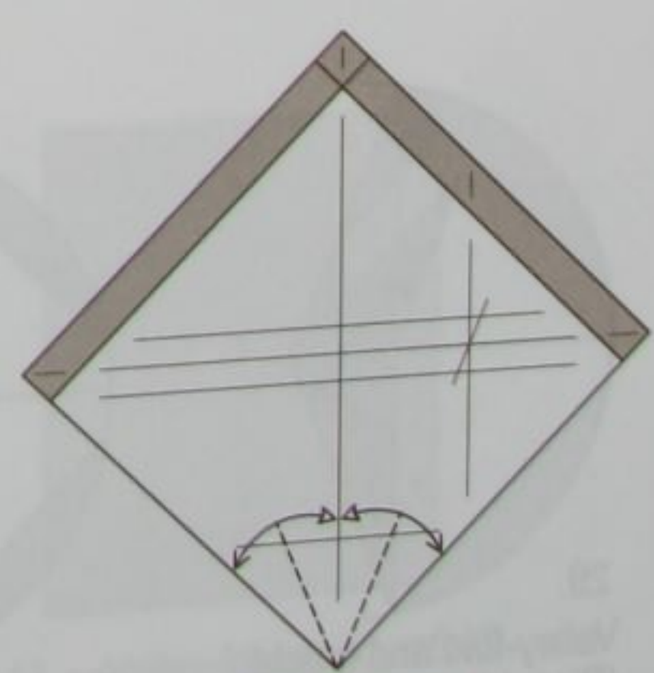
13. Pinch.



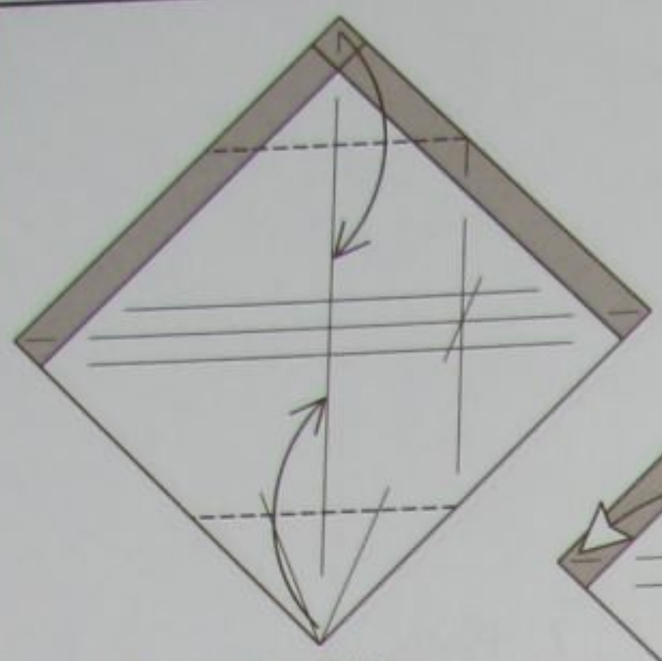
14. Valley-fold and unfold.



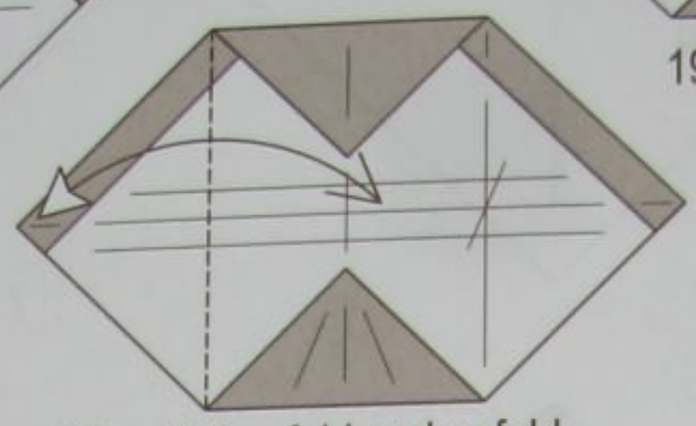
15. Valley-fold and unfold.



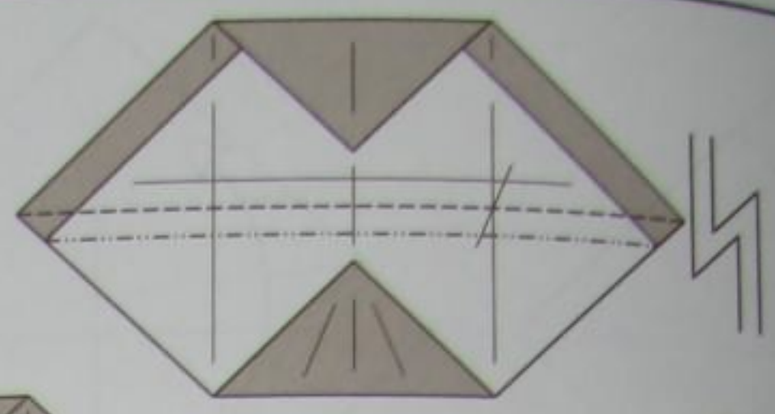
16. Pre-creases.



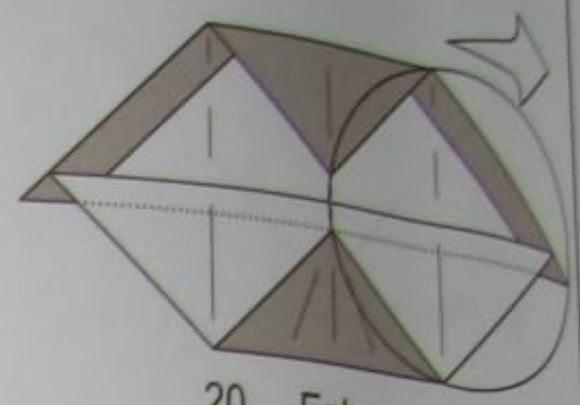
17. Valley-folds.



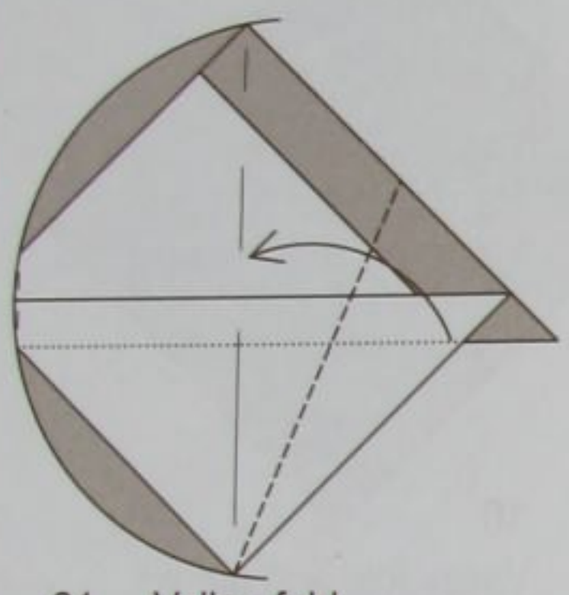
18. Valley-fold and unfold.



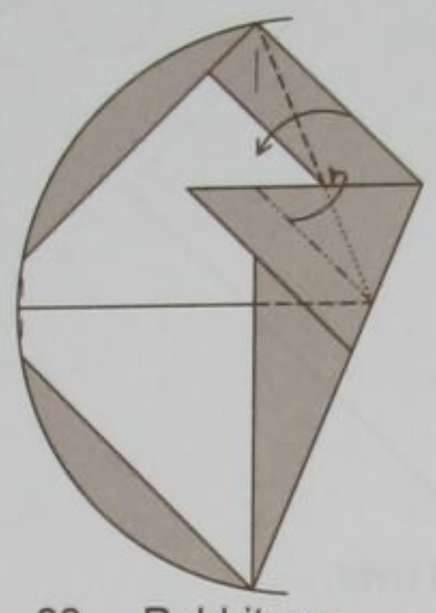
19. Pleat-fold.



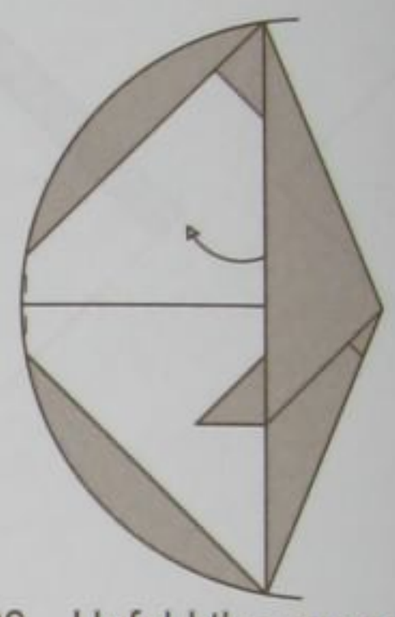
20. Enlarge.



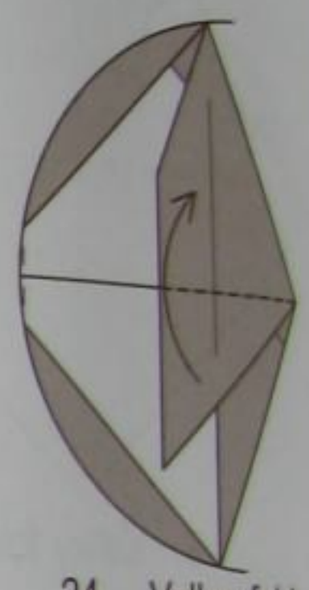
21. Valley-fold.



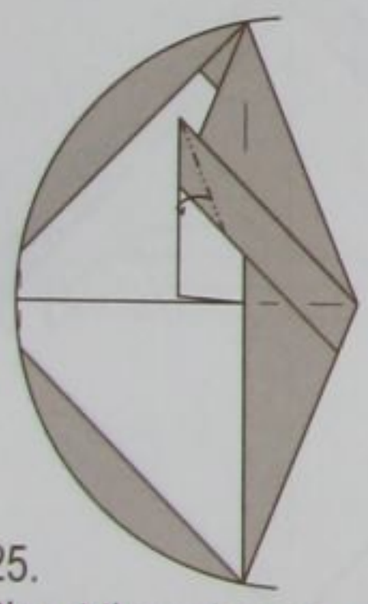
22. Rabbit-ear.



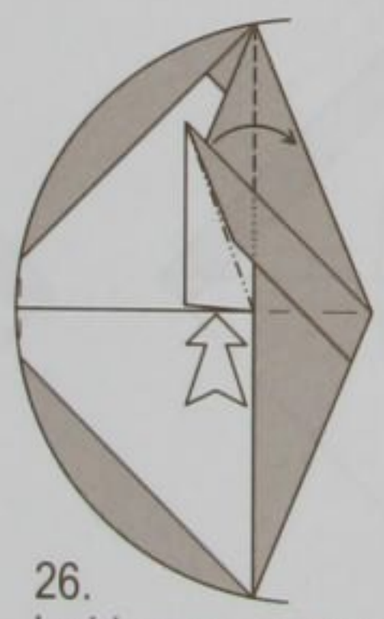
23. Unfold the raw edge.



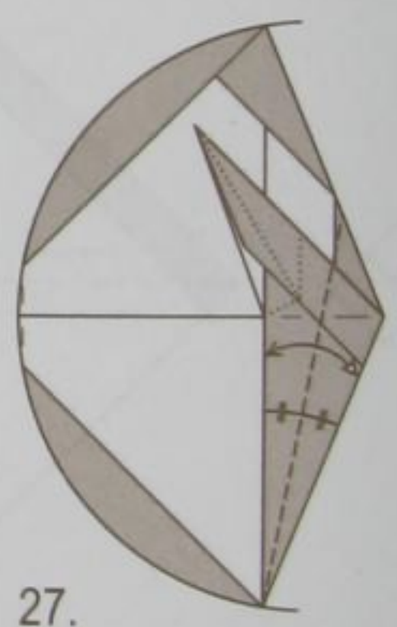
24. Valley-fold.



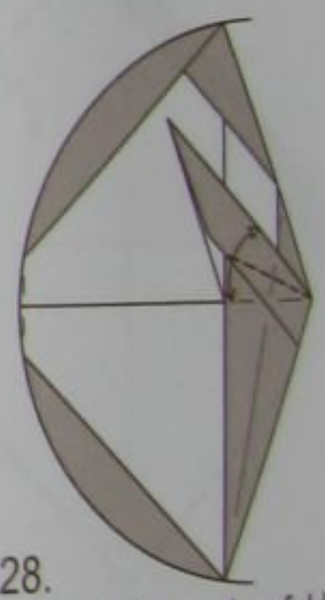
25.
Bisect the coloured corner with a mountain-fold.



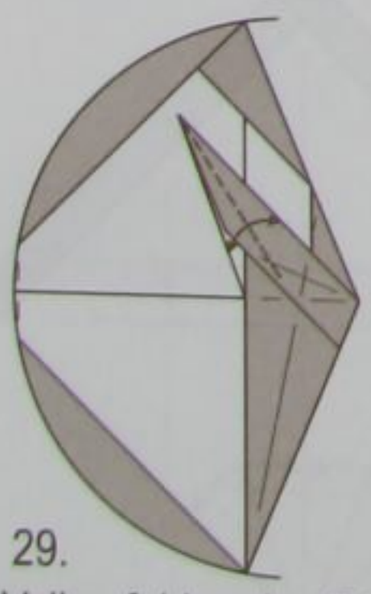
26.
Inside reverse-fold.



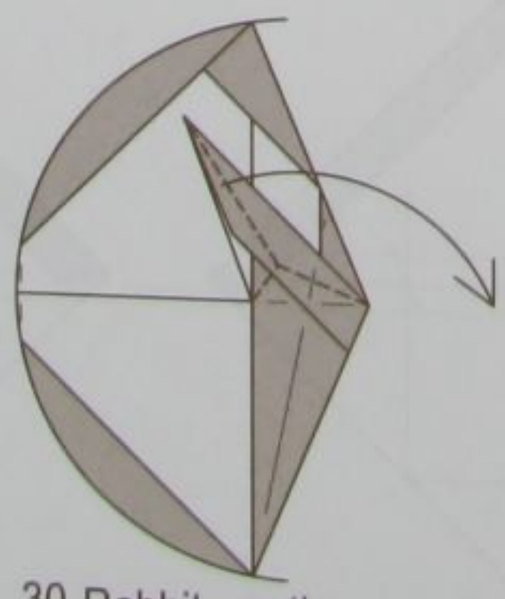
27.
Valley-fold and unfold.



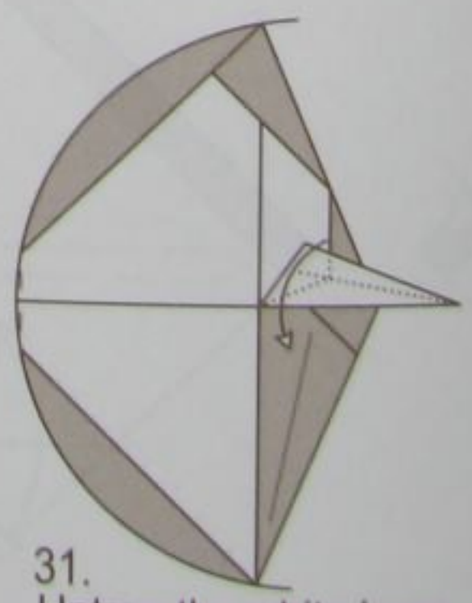
28.
Valley-fold and unfold.
(Bisect the corner).



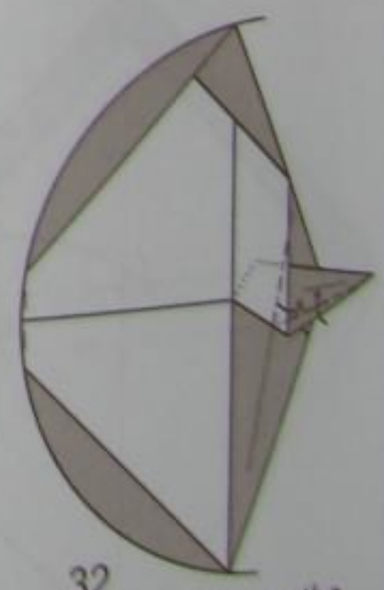
29.
Valley-fold and unfold.
(Bisect the corner).



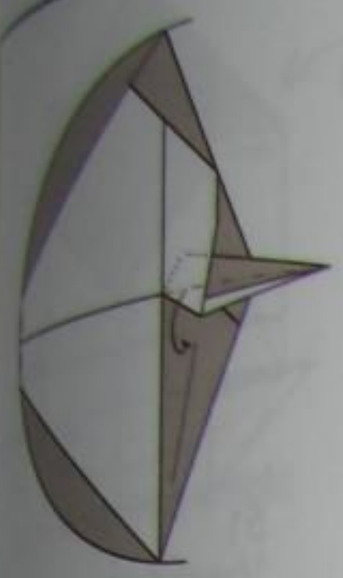
30. Rabbit-ear the top layers only.



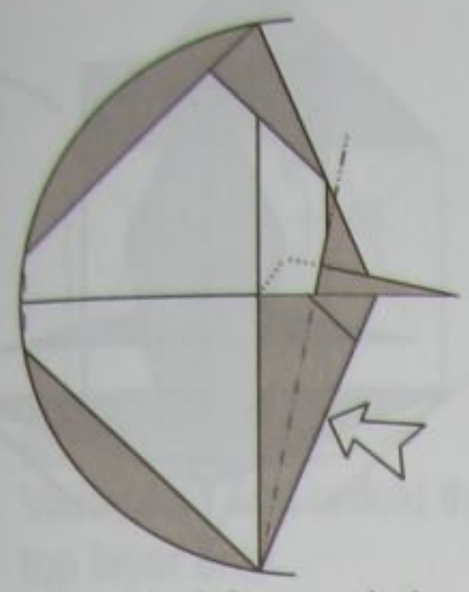
31.
Untrap the white layer.



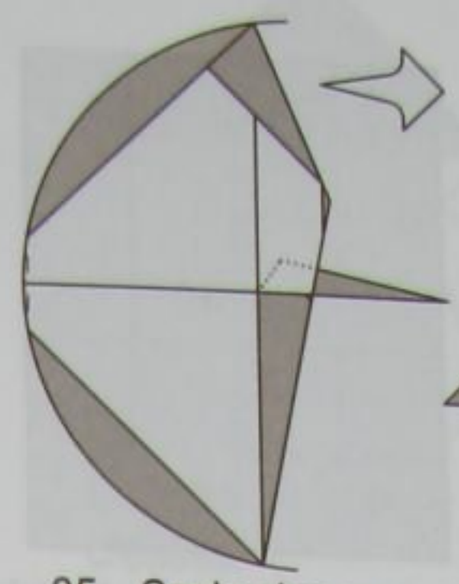
32.
Swivel-fold on the crease behind.



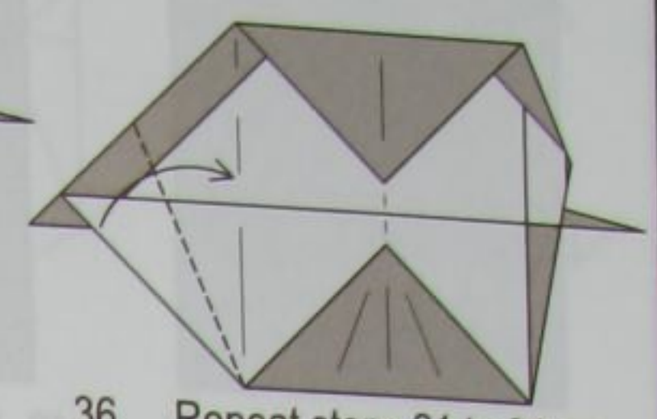
33. Mountain-fold into the layers underneath.



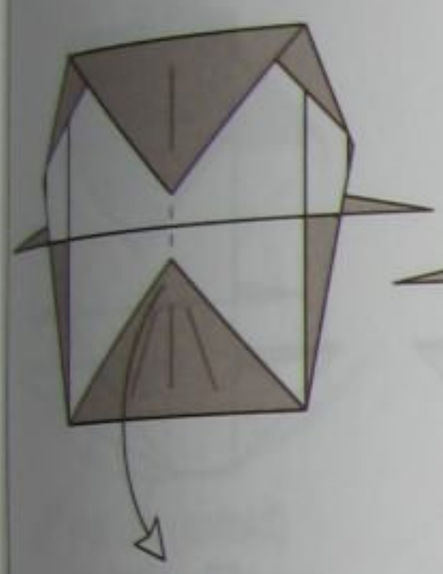
34. Closed-sink on existing crease.



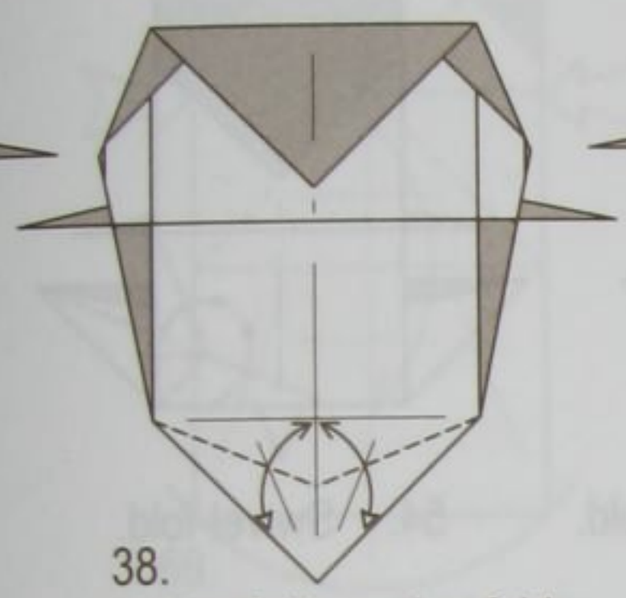
35. Scale change.



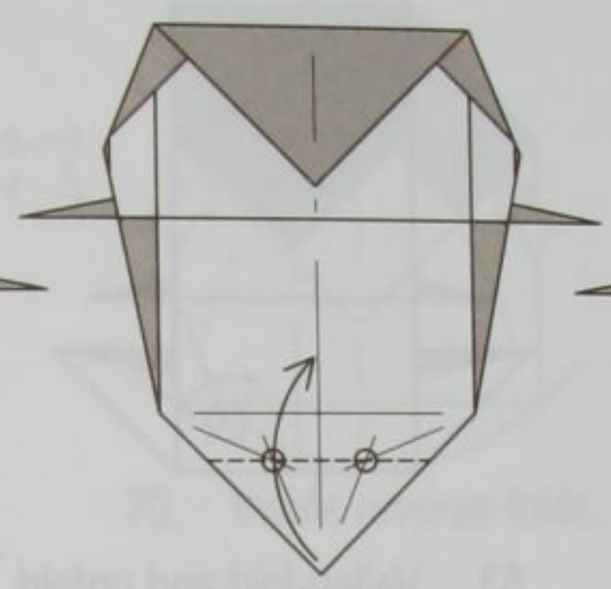
36. Repeat steps 21 to 34 on the left.



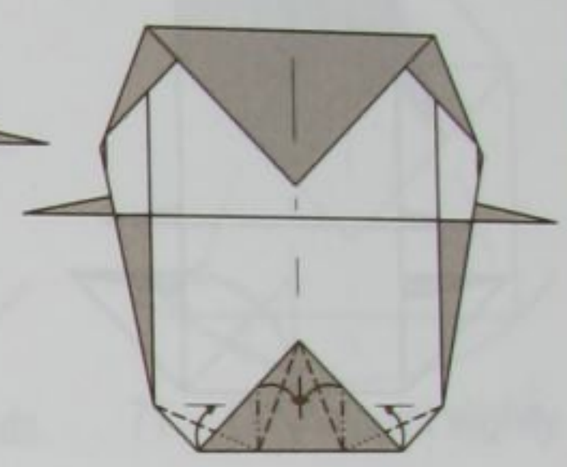
37. Unfold.



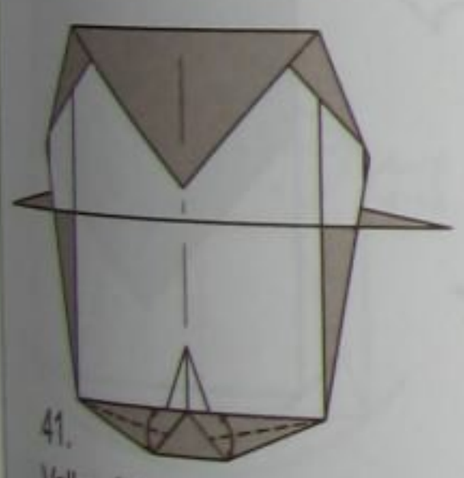
38. Valley-folds and unfold.



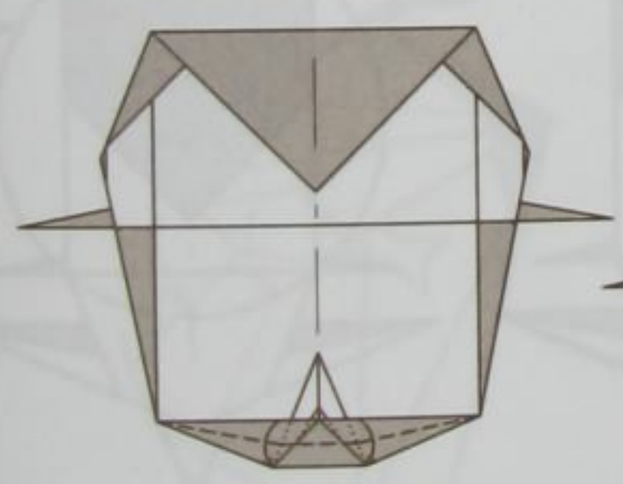
39. Valley-fold.



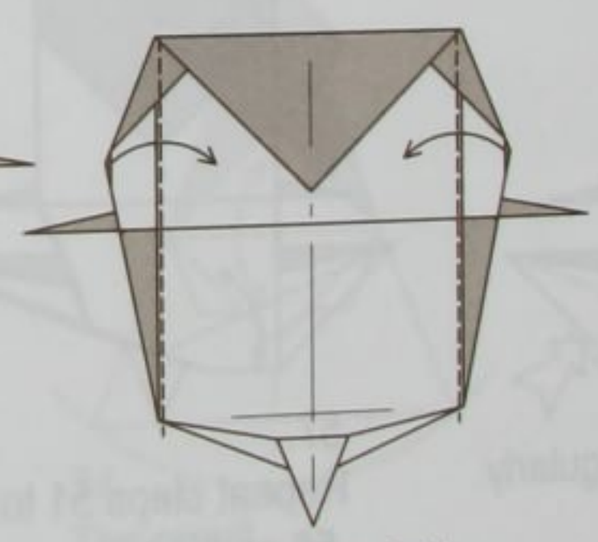
40. Swivel-folds.



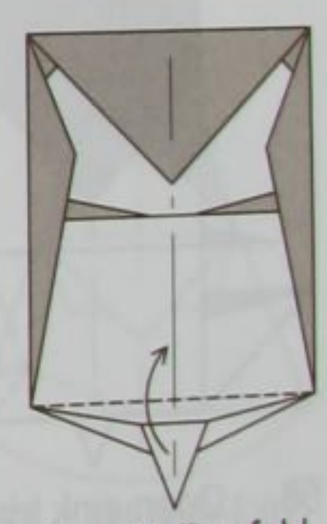
41. Valley-fold and unfold the raw edges.



42. Valley-fold on existing creases.

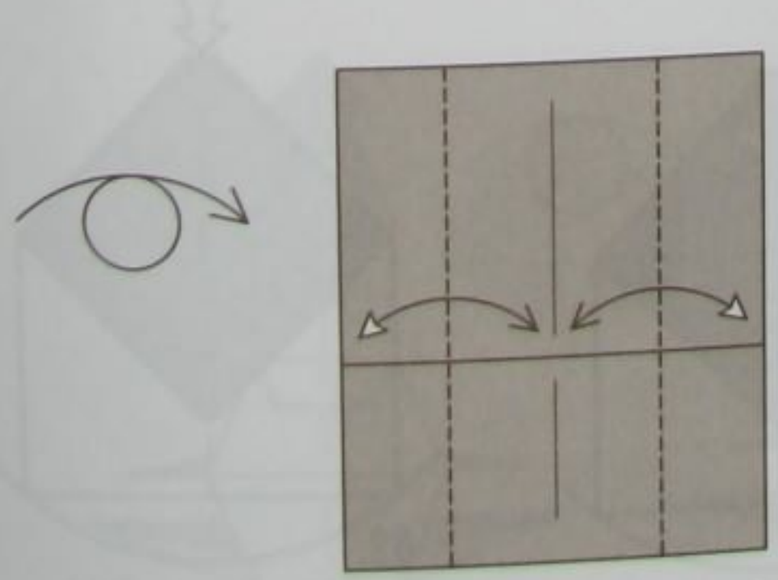


43. Valley-folds.

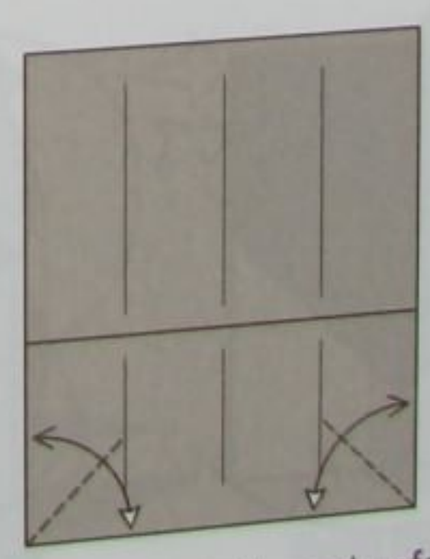


44. Valley-fold.

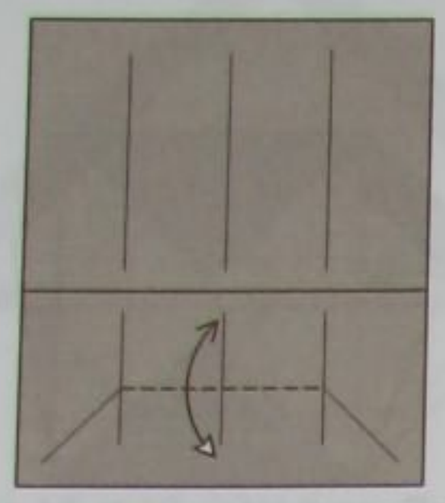
45. Turn over.



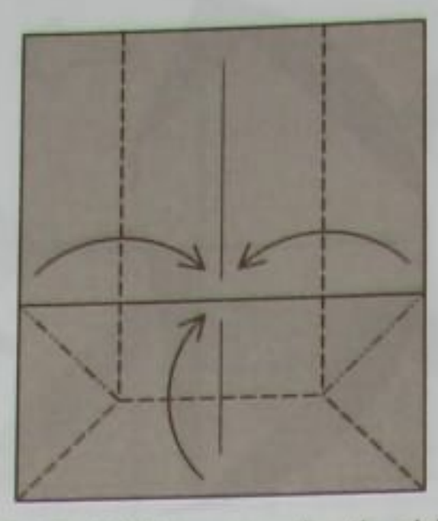
46. Valley-folds and unfold.



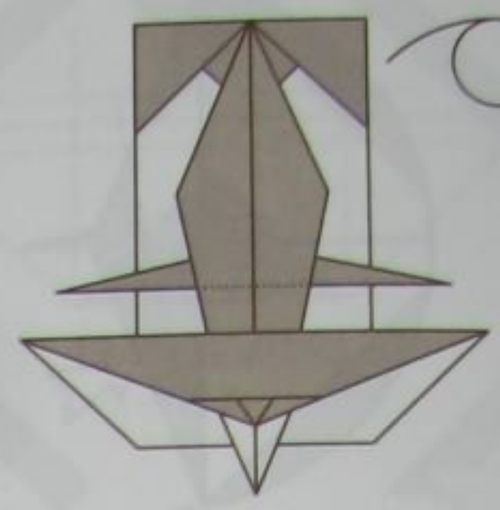
47. Valley-folds and unfold.



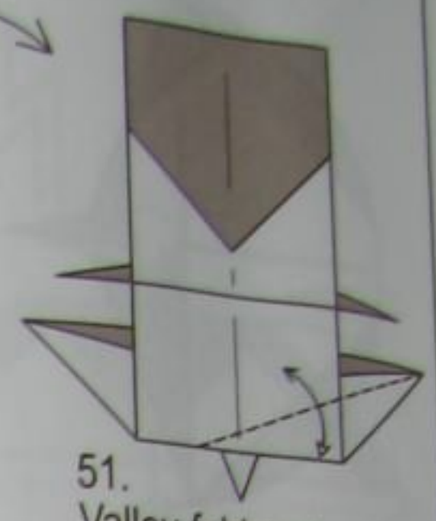
48. Valley-fold and unfold.



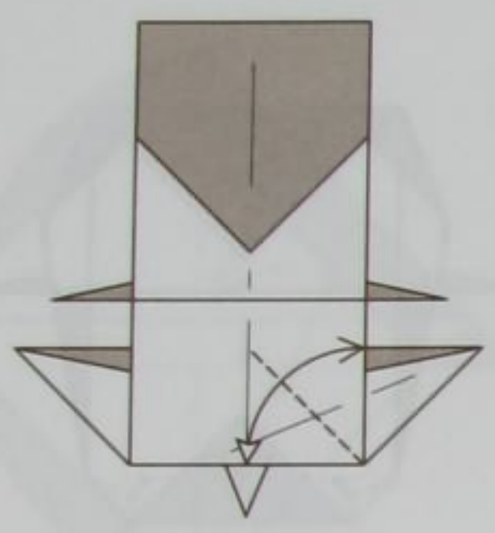
49. Rabbit-ear on both sides.



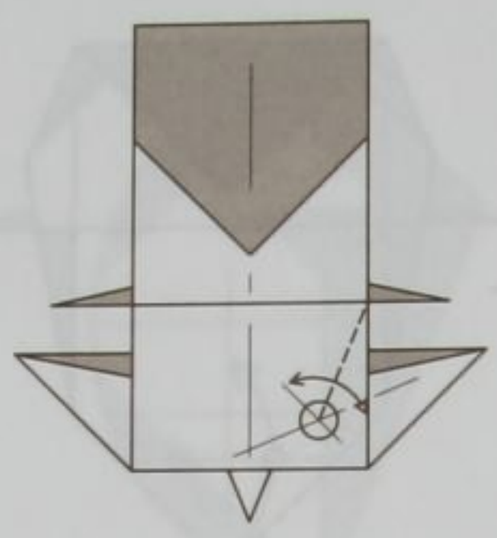
50. Turn over.



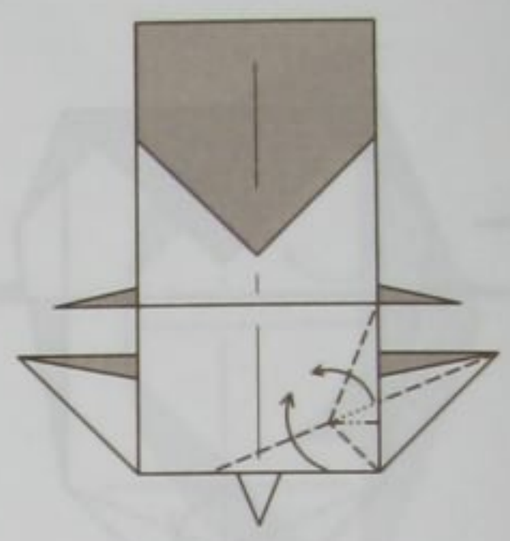
51. Valley-fold and unfold.



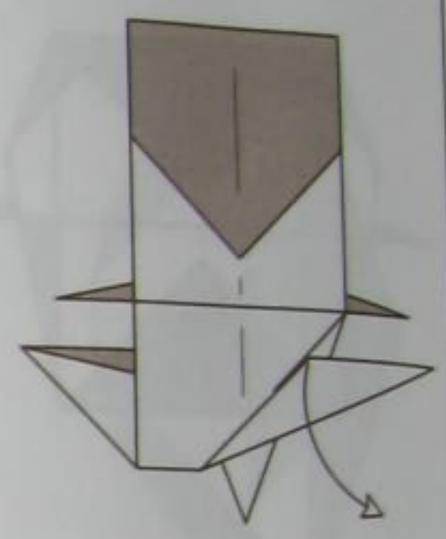
52. Valley-fold and unfold.



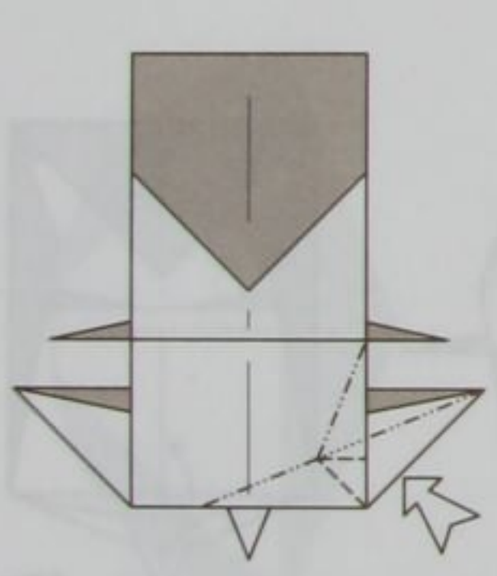
53. Valley-fold and unfold.



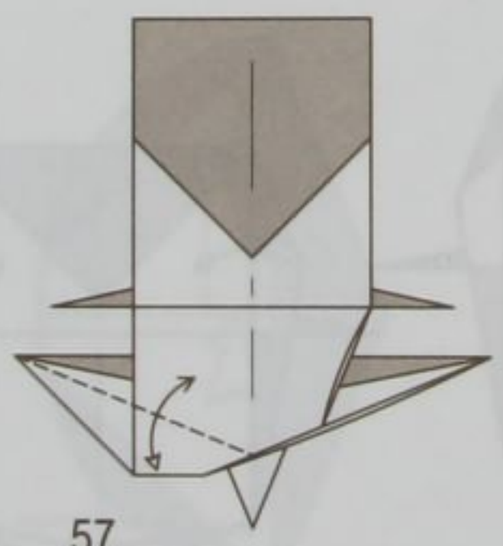
54. Swivel-fold.



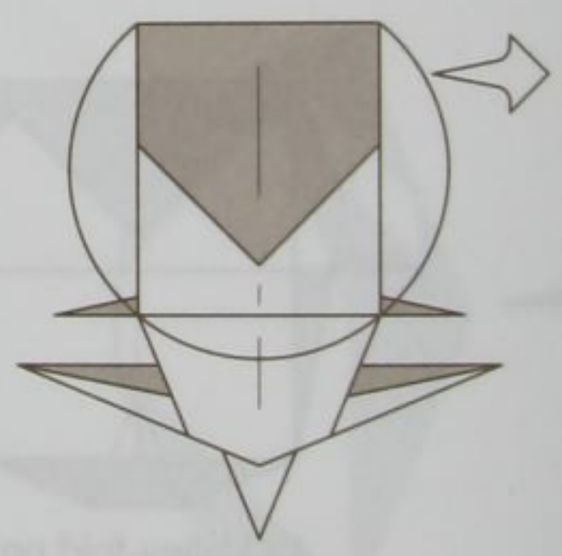
55. Unfold.



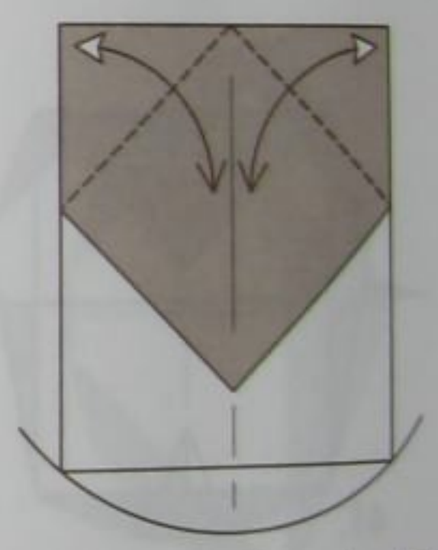
56. Open-sink triangularly.



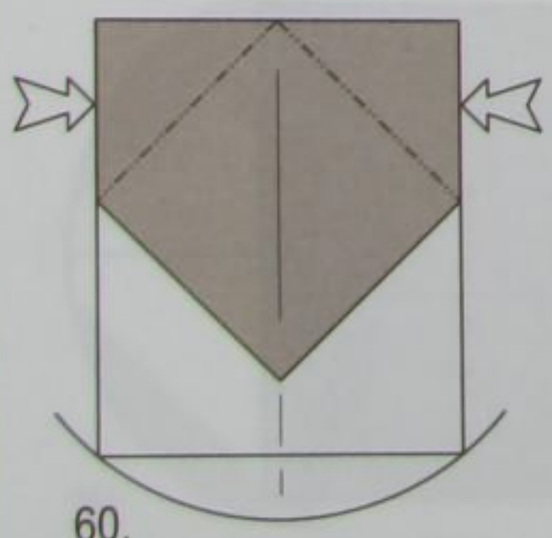
57. Repeat steps 51 to 56 on the left.



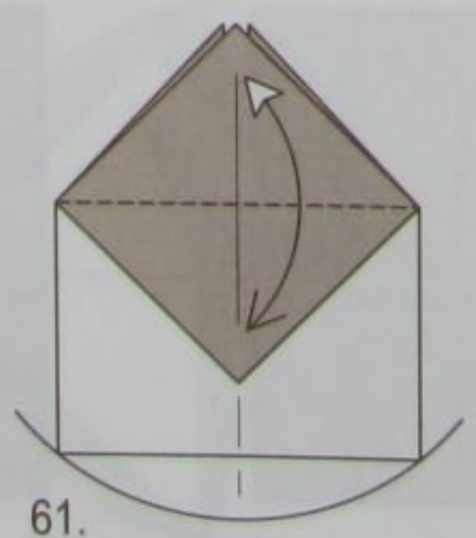
58. Enlarge.



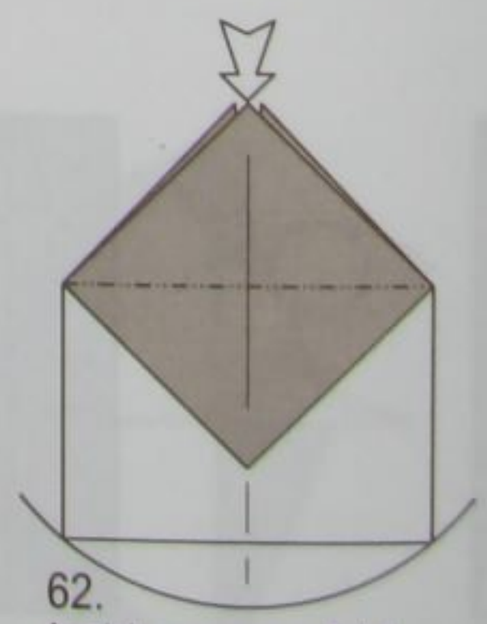
59. Valley-folds and unfold.



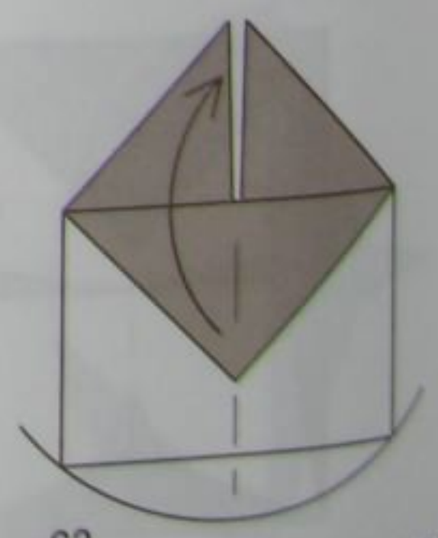
60. Inside reverse-folds.



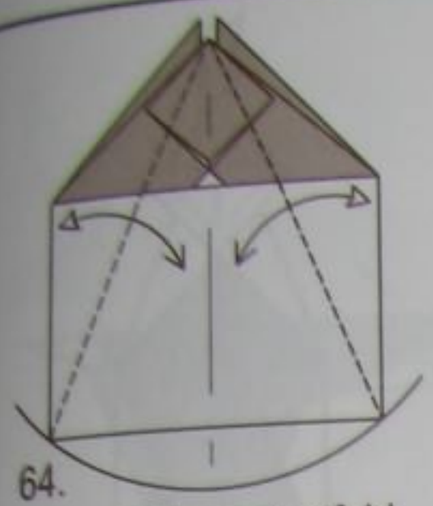
61. Valley-fold and unfold.



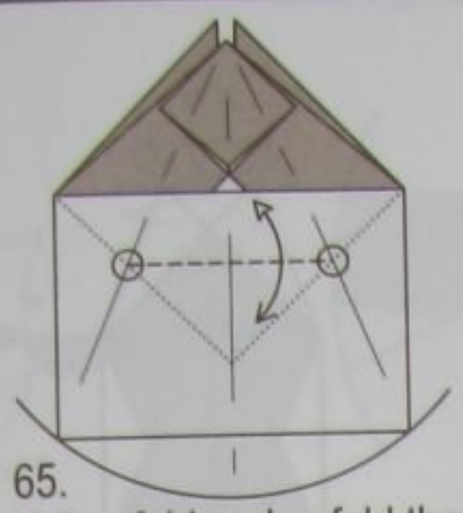
62. Inside reverse-fold.



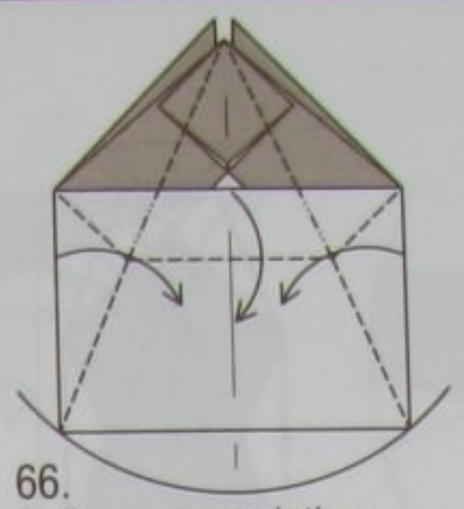
63. Valley-fold the corner up.



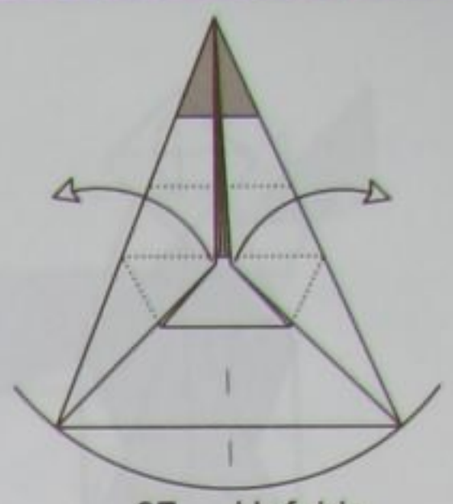
64. Valley-folds and unfold through all layers.



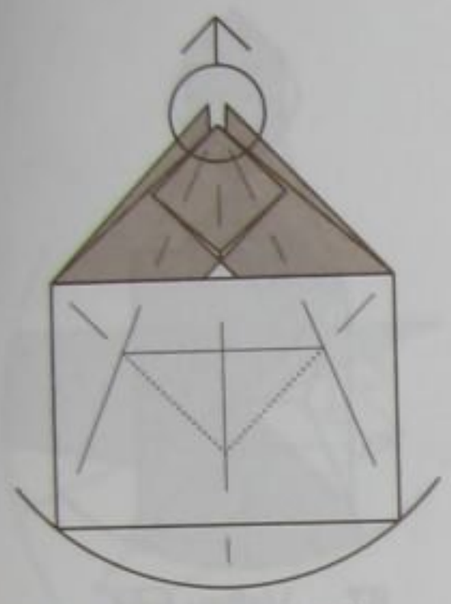
65. Valley-fold and unfold the top layer only. See markers.



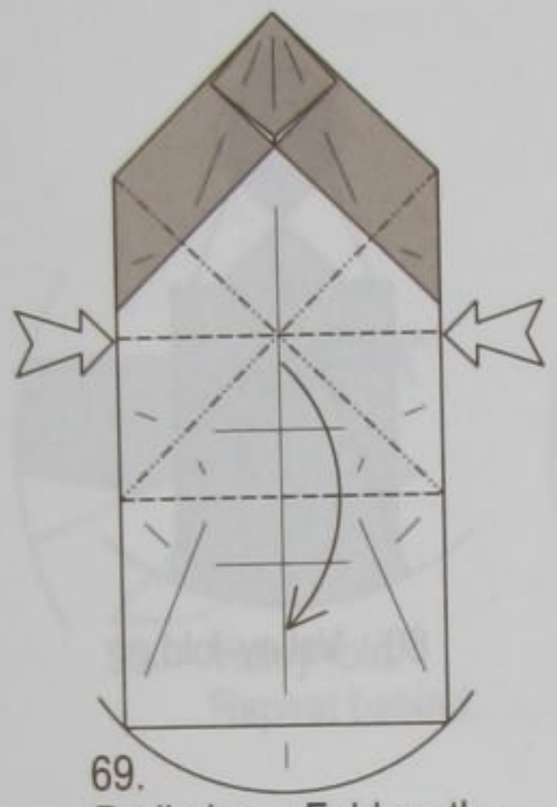
66. Collapse on existing creases.



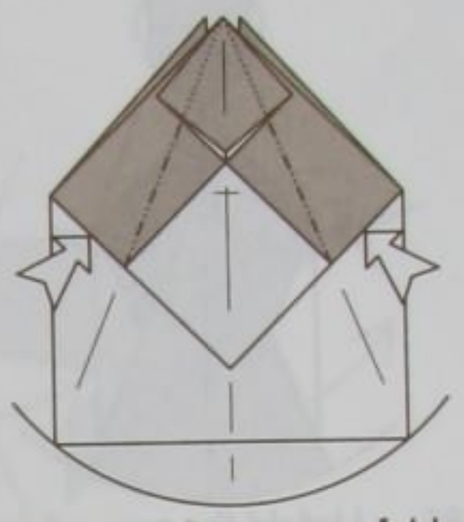
67. Unfolds.



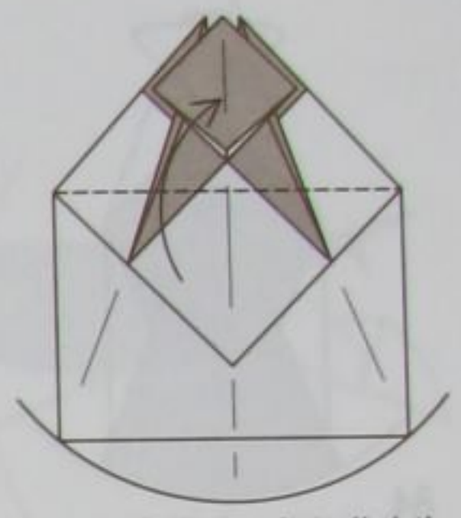
68. Pull out (unfold) the hidden corner.



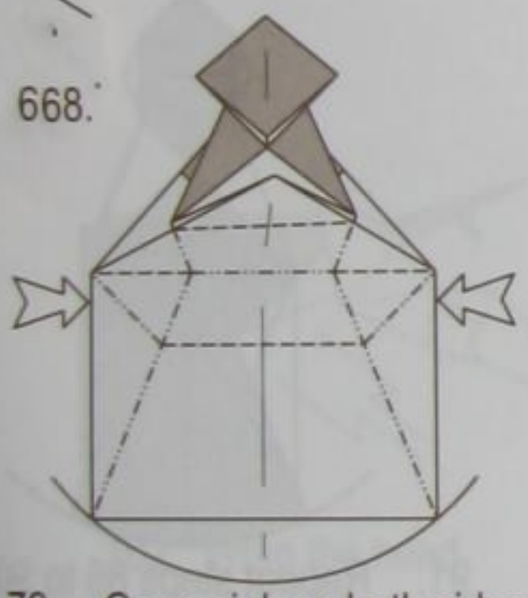
69. Preliminary Fold on the existing creases.



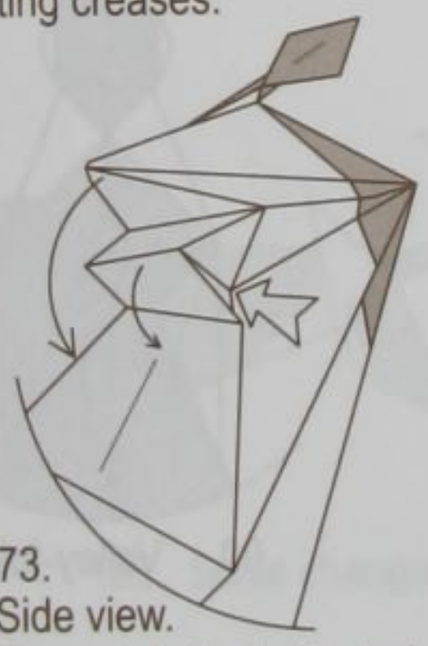
70. Inside reverse-folds.



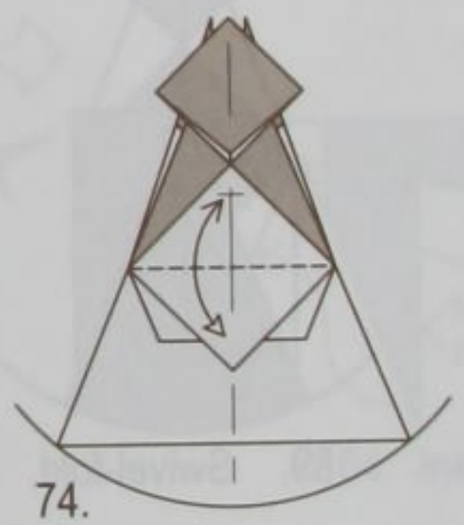
71. Lift the point slightly.



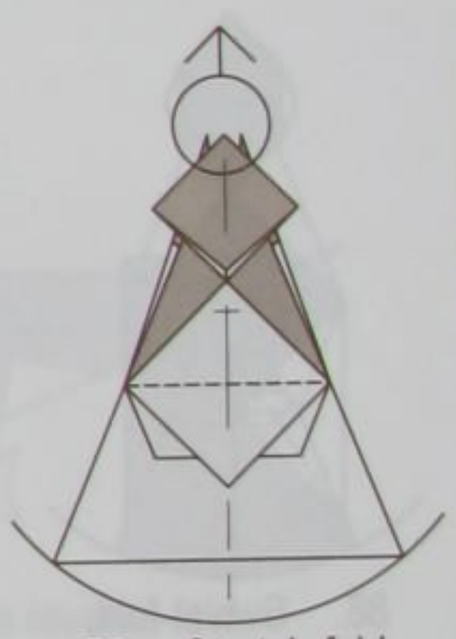
72. Open-sink on both sides on creases made in steps 62 to 65.



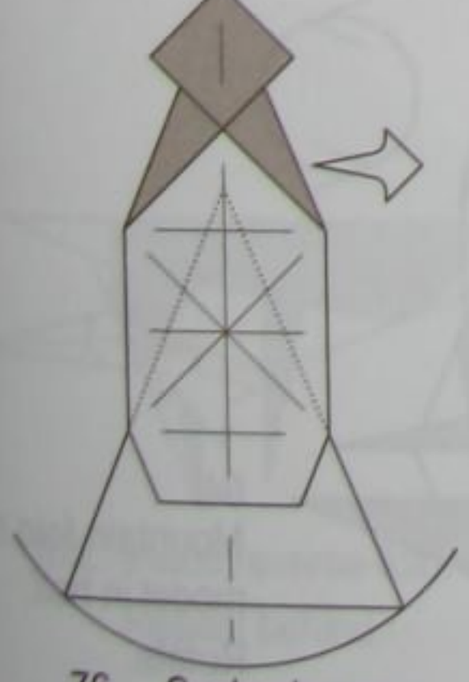
73. Side view. Open-sink the indicated point and then flatten.



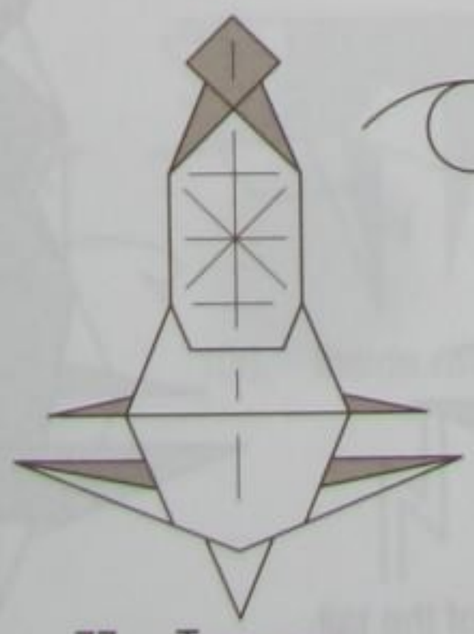
74. The result. Valley-fold and unfold.



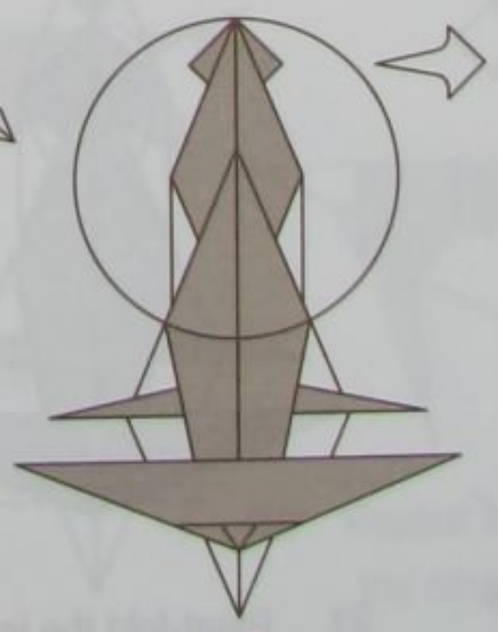
75. Stretch-fold.



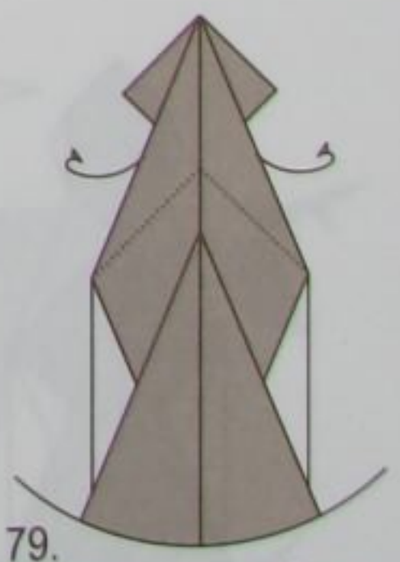
76. Scale change.



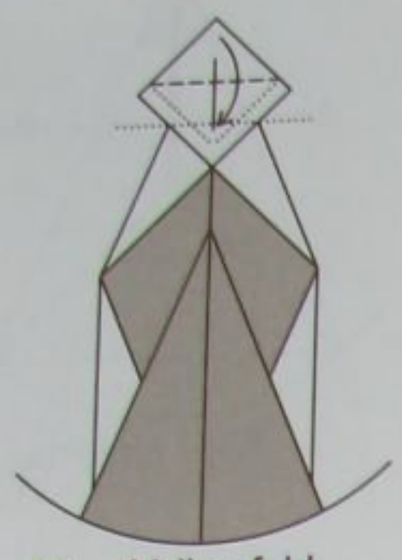
77. Turn over.



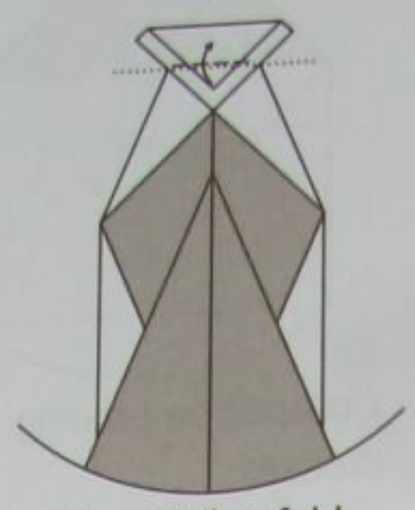
78. Enlarge.



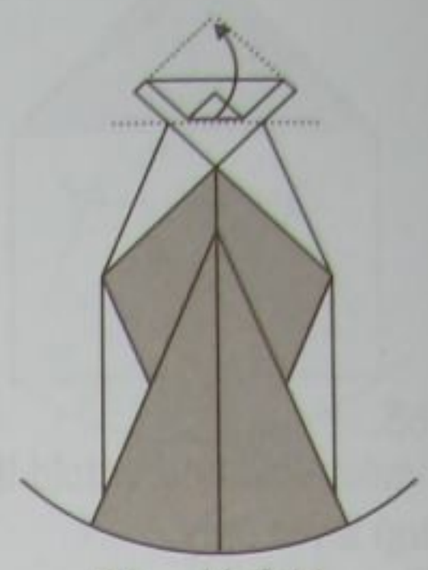
79. Bring the raw edges to the front (wrap around).



80. Valley-fold.

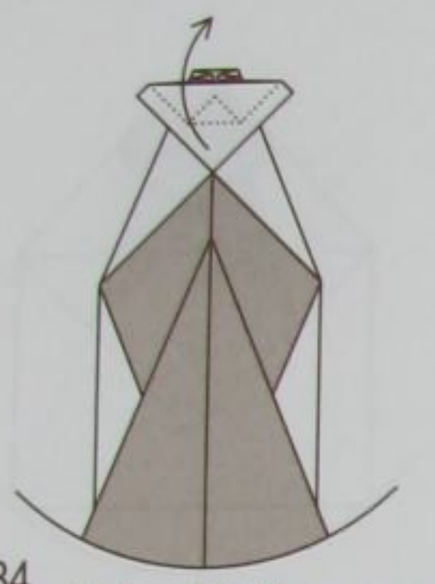


81. Valley-fold.

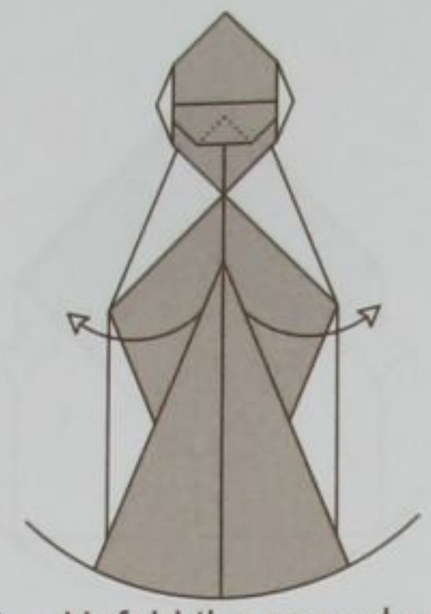


82. Unfold.

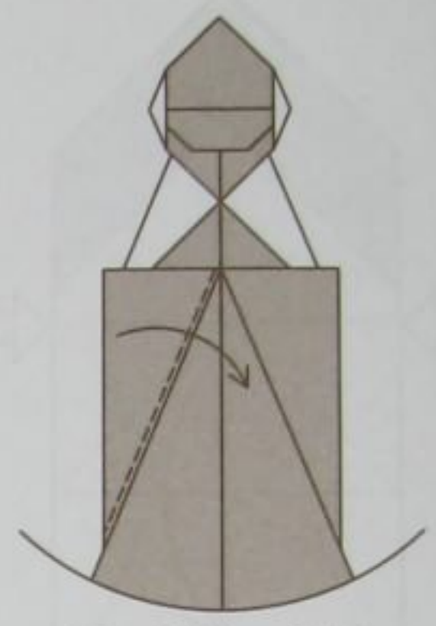
83. Open-sink in and out.



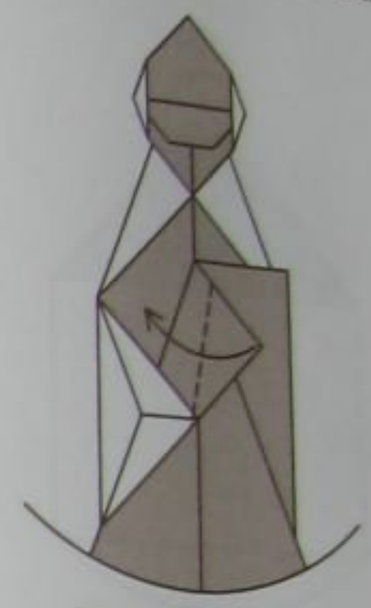
84. Valley-fold the raw corner up.



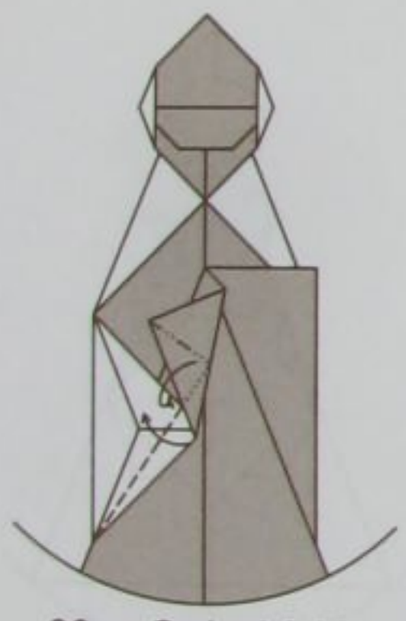
85. Unfold the raw edges totally from inside the "horn" flaps.



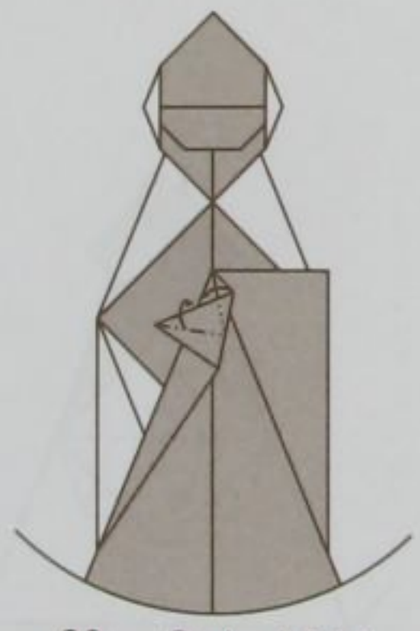
86. Valley-fold.



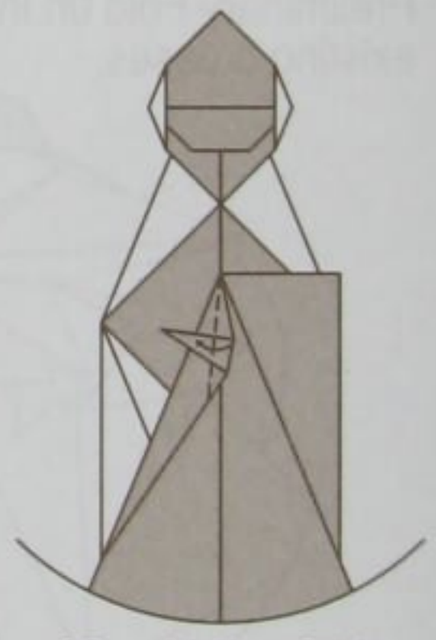
87. Valley-fold.



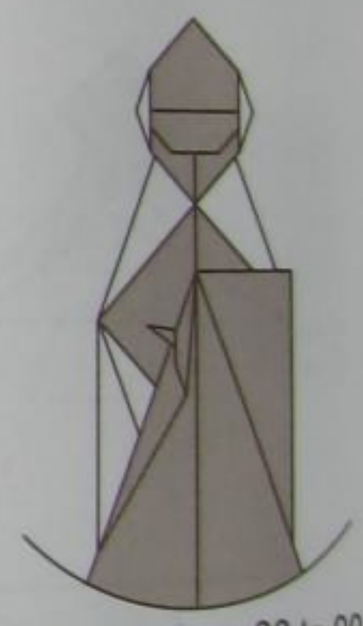
88. Swivel-fold.



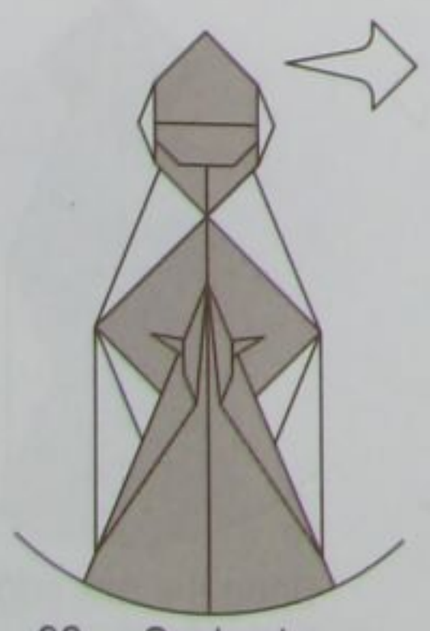
89. Swivel-fold.



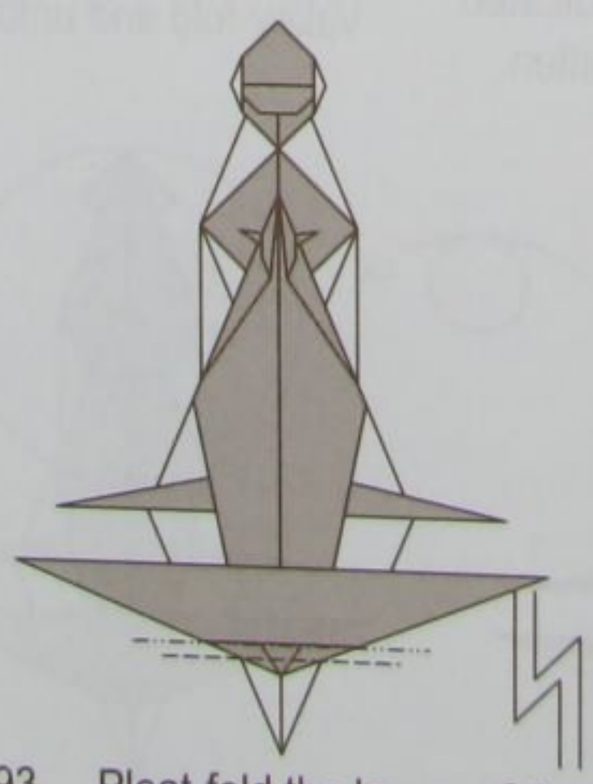
90. Valley-fold.



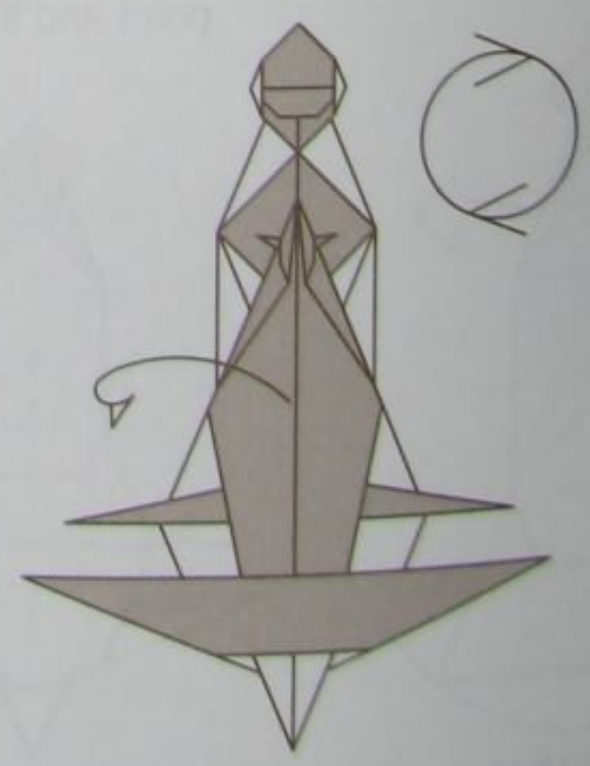
91. Repeat steps 86 to 90 on the right.



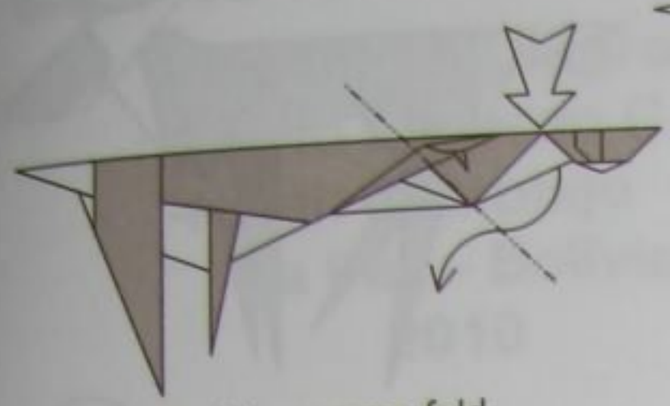
92. Scale change.



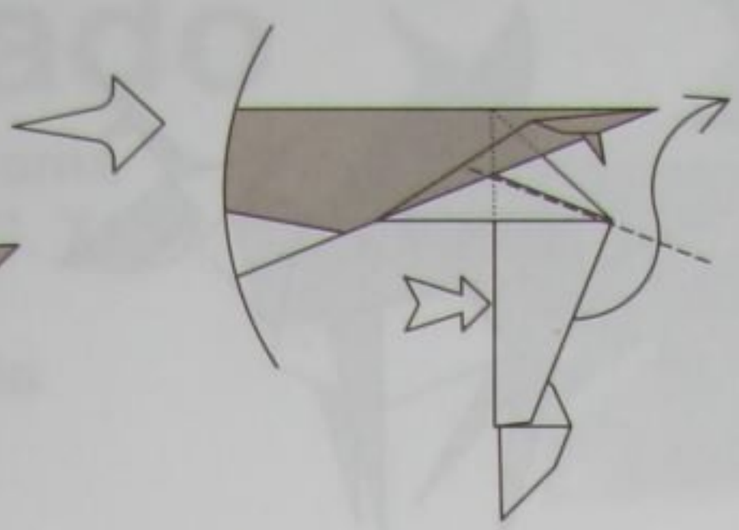
93. Pleat-fold the layers of the tail.



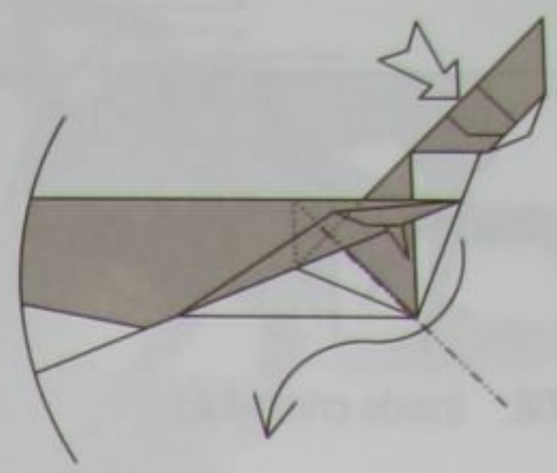
94. Mountain-fold the model in half. Rotate.



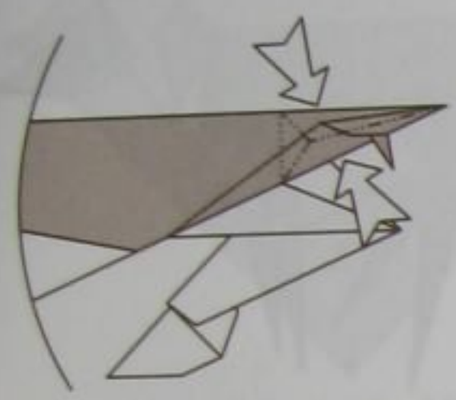
95. Inside reverse-fold.
Enlarge.



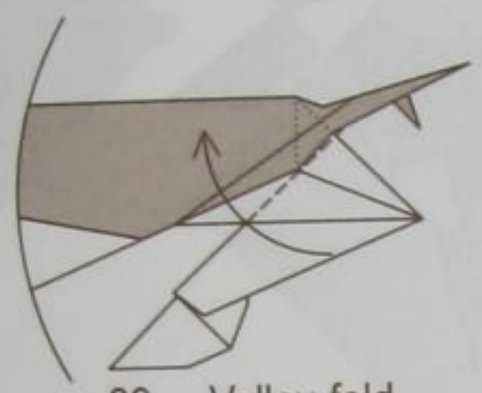
96. Inside reverse-fold.



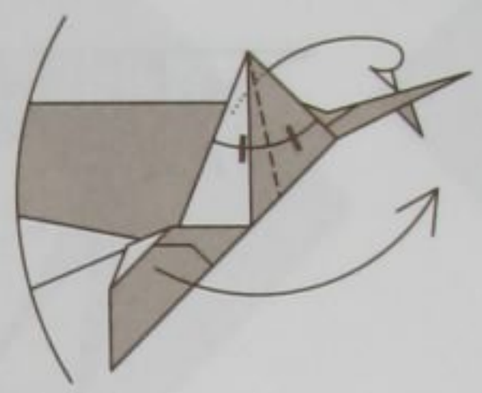
97. Inside reverse-fold.



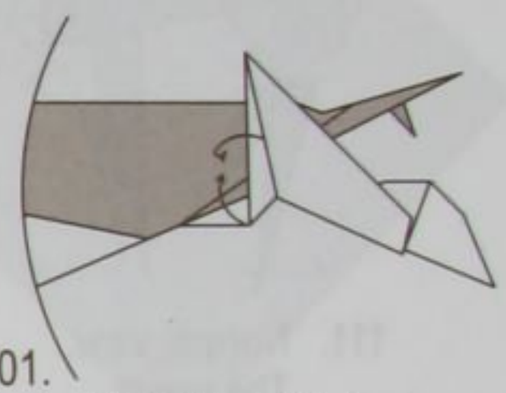
98. Pinch to thin the "horns".



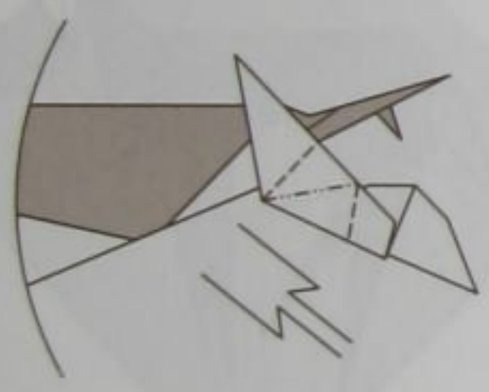
99. Valley-fold.
Repeat behind.



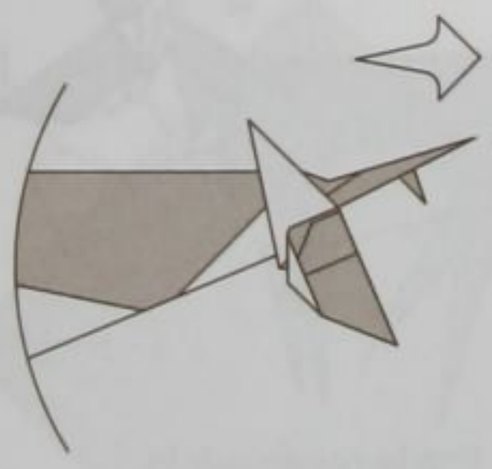
100.
Outside reverse-fold.



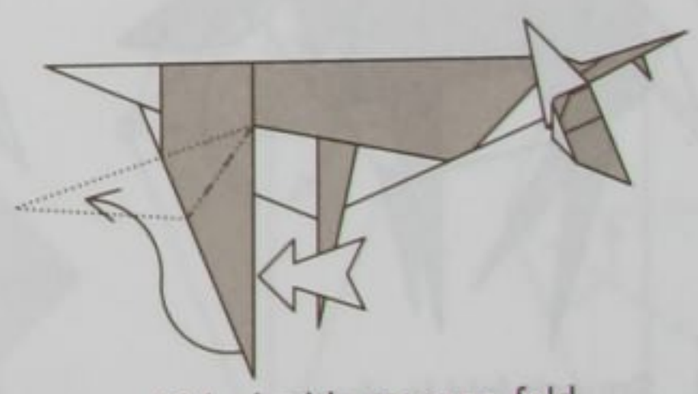
101.
Swivel-fold the white layer behind the ear.
Repeat behind.



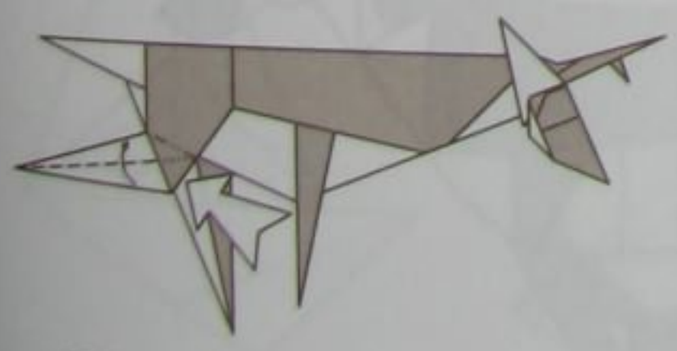
102. Wrap the head around the neck.



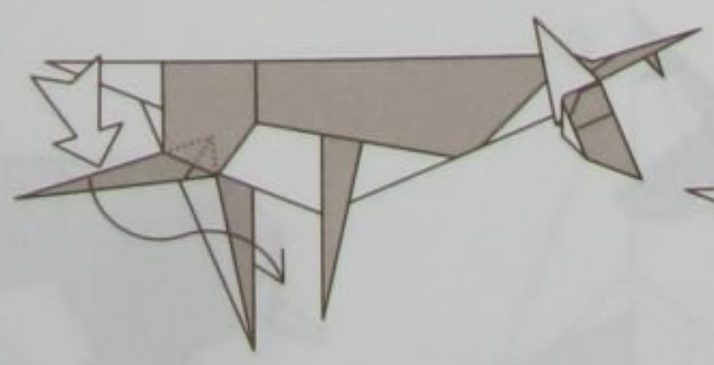
103. Scale change.



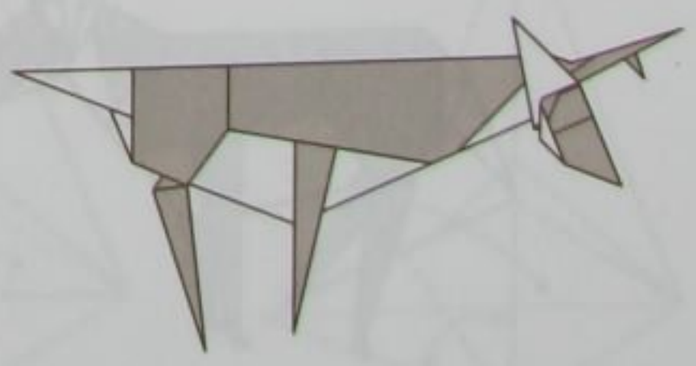
104. Inside reverse-fold.



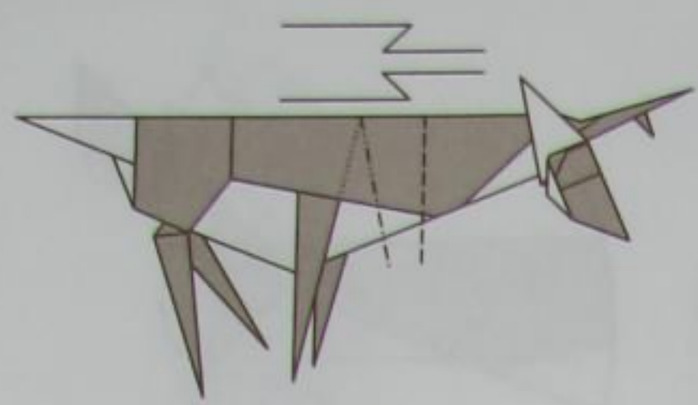
105. Inside reverse-fold.
Repeat behind.



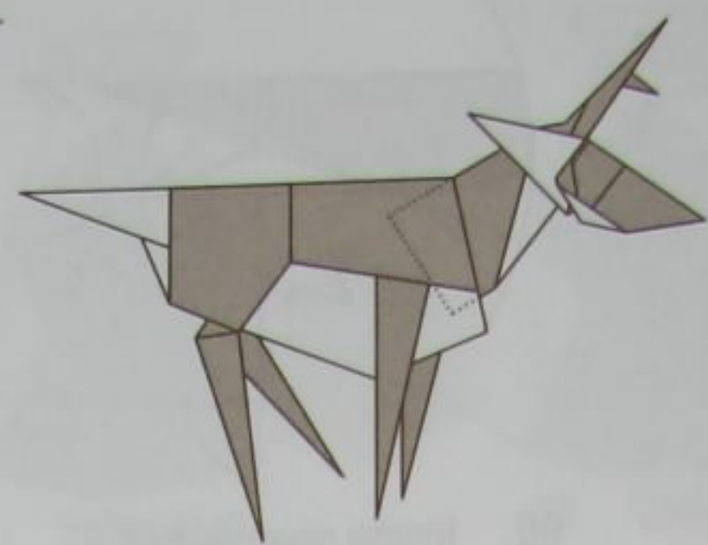
106. Inside reverse-fold.



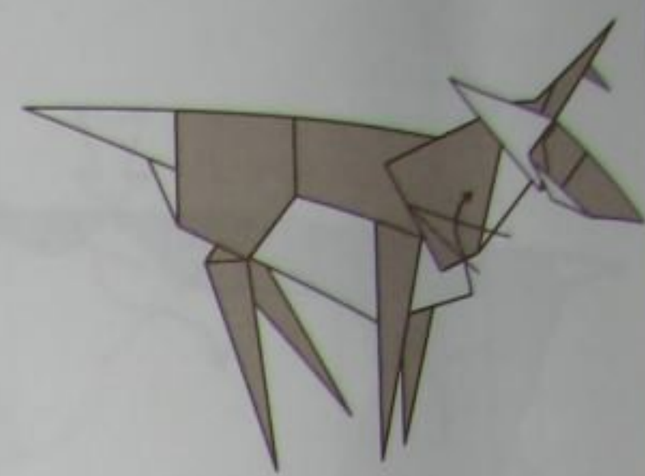
107. Repeat steps 104 to 106 on the other hind leg.



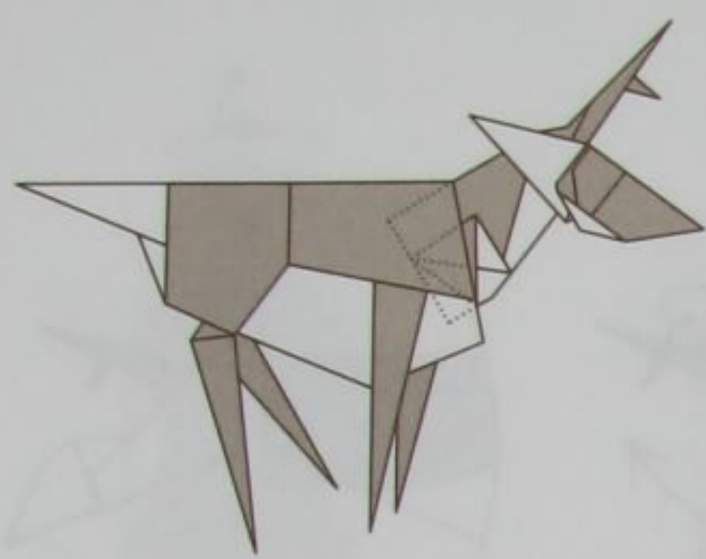
108. Inside crimp-fold.



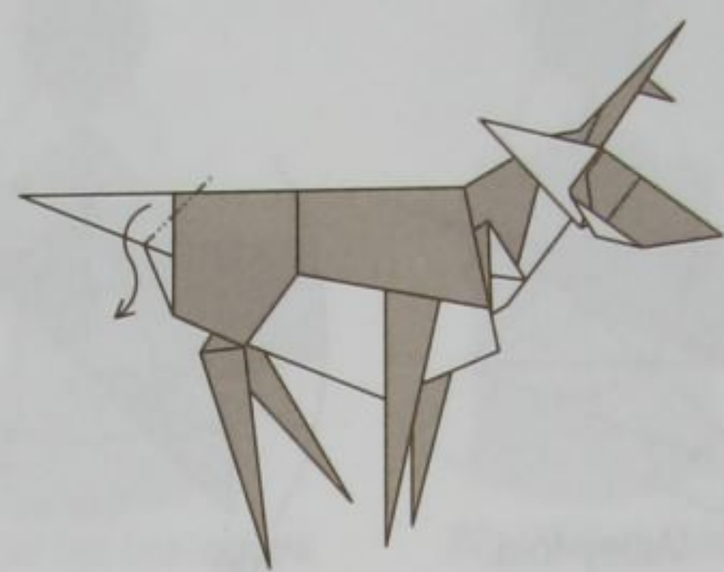
109. Next view will show the internal layers.



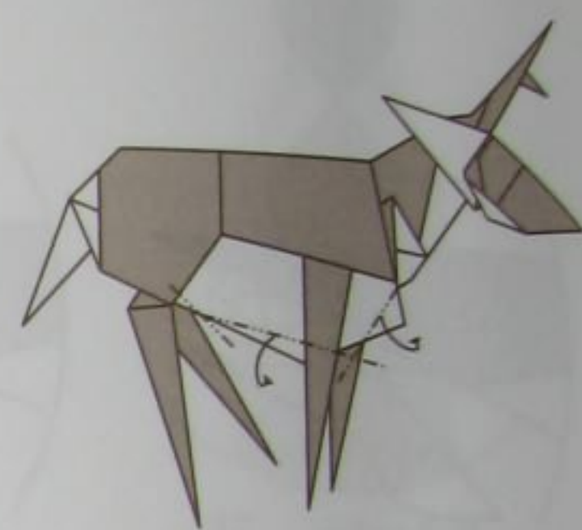
110. X-Ray view.
Swivel-fold the edge.



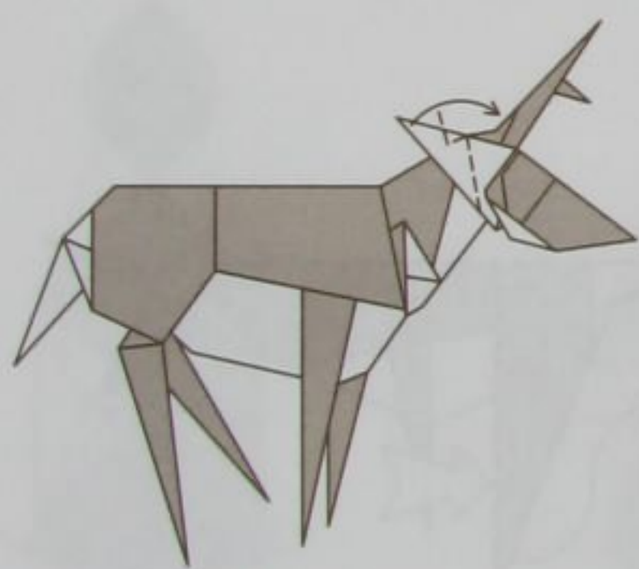
111. Normal view.
The result.



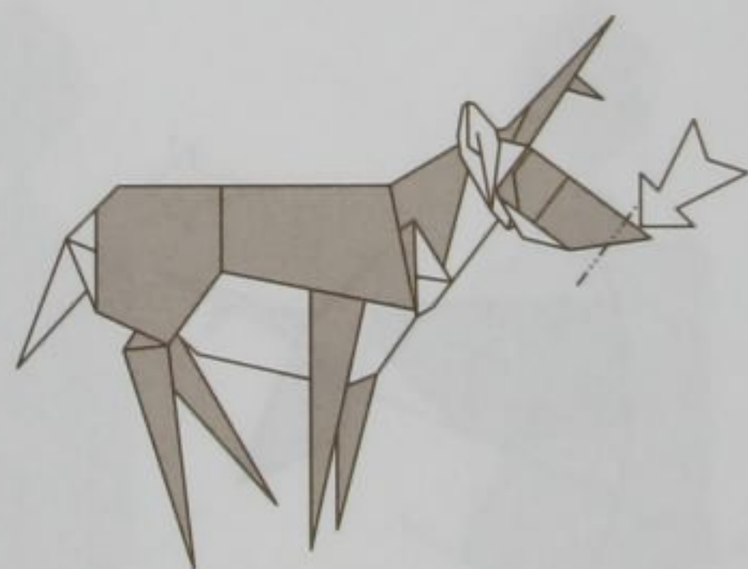
112. Inside reverse-fold.



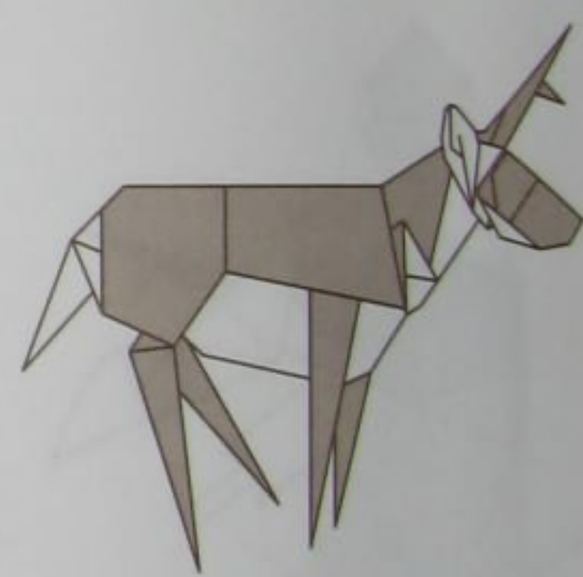
113. Mountain-folds.
Rpeat behind.



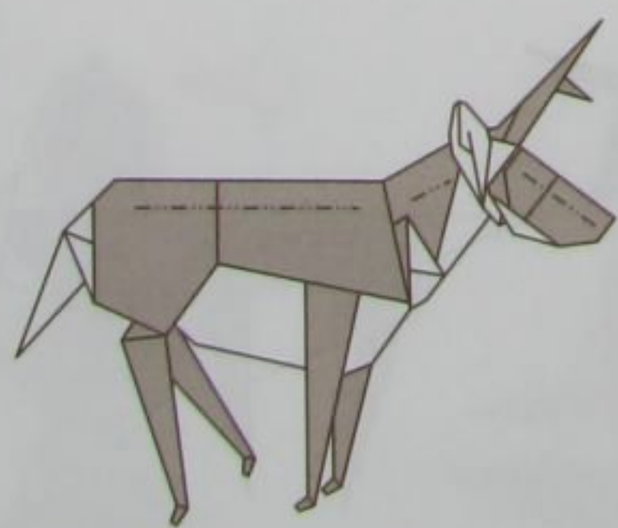
114. Squash-fold to shape the ears.



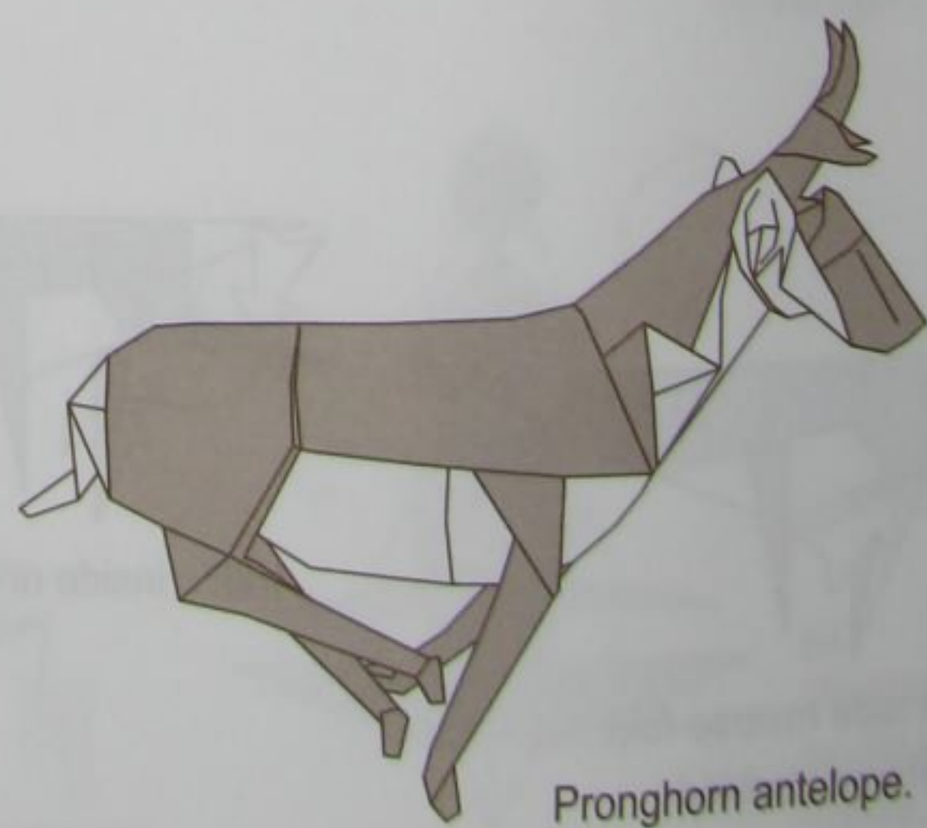
115. Inside reverse-fold.



Crimp-fold the hooves.



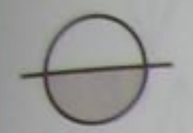
116. Curl the "horns".
Shape the legs and body to your own taste.

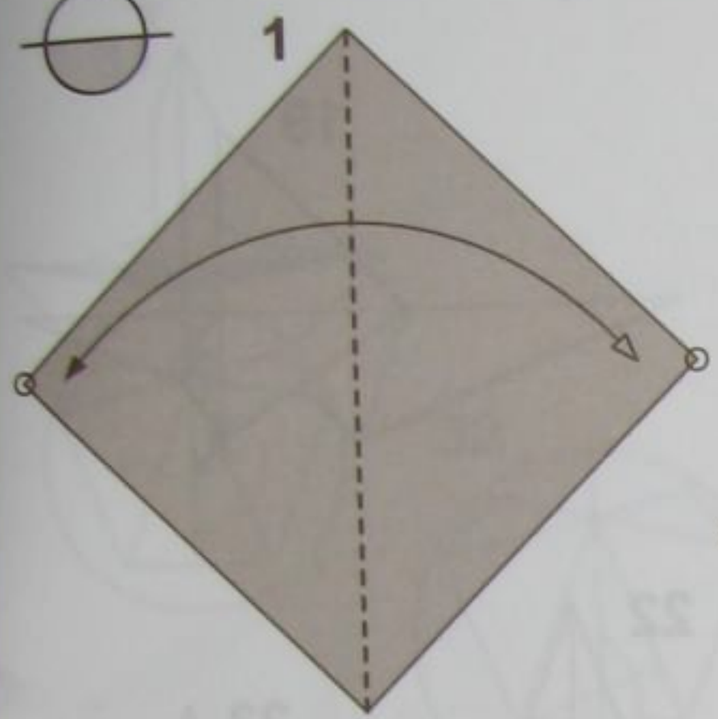


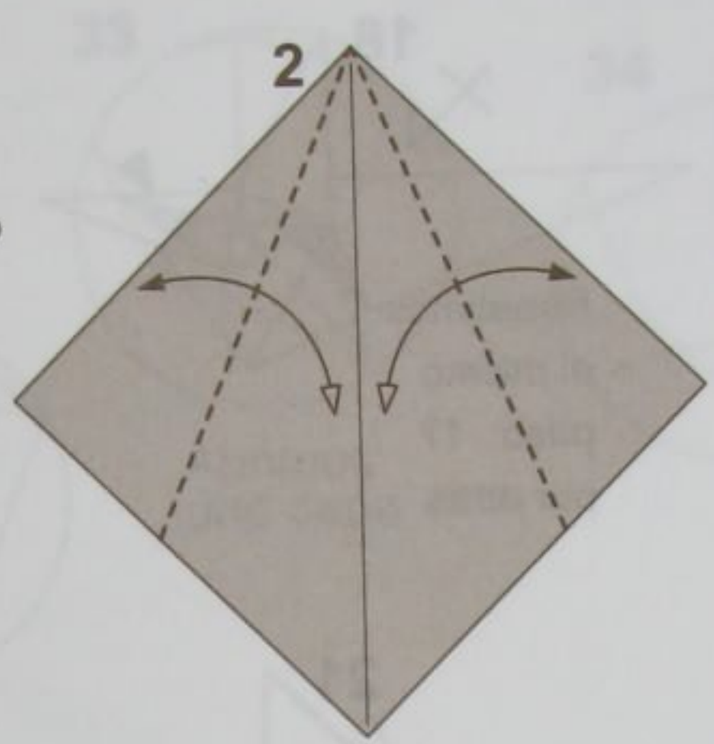
Pronghorn antelope.

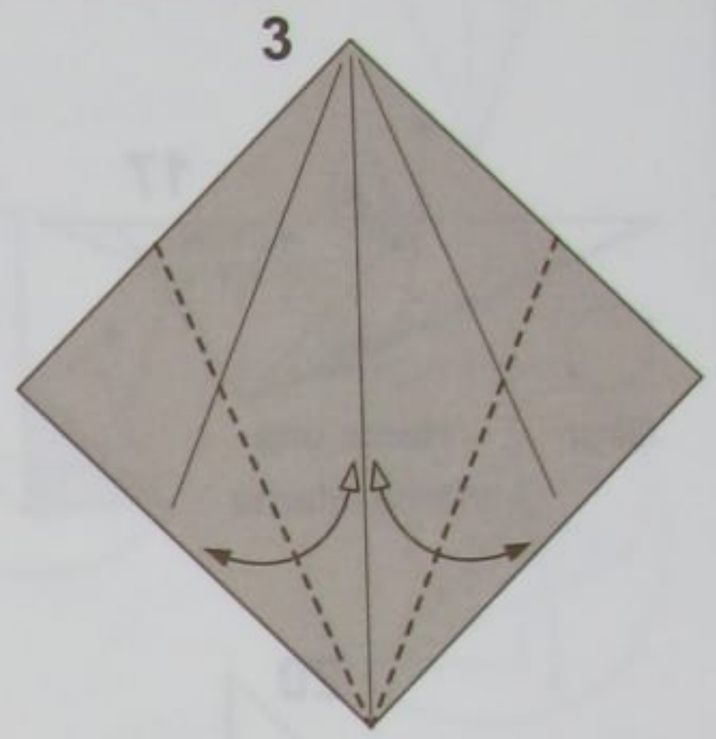
# Lobo Alado

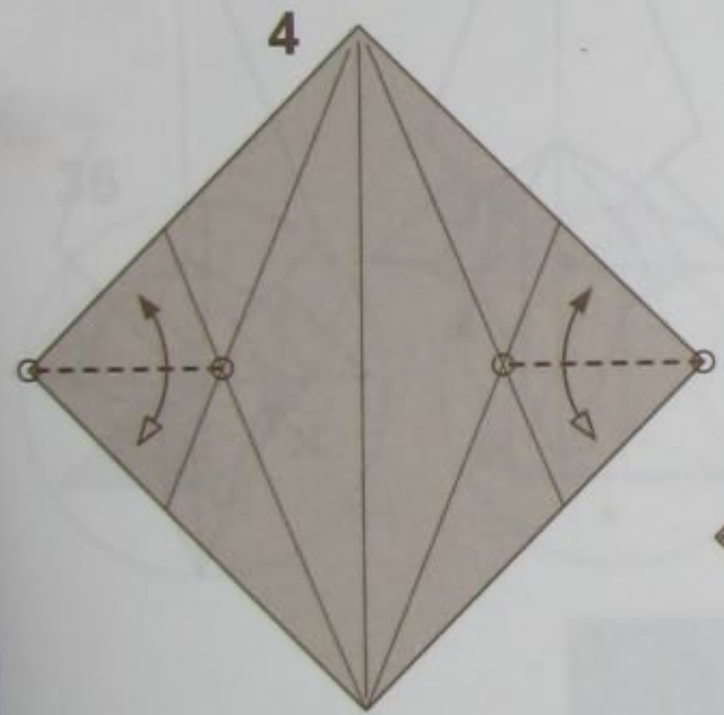
- Modelo & Diagrama
  Julio Eduardo C. T.
-Nivel: Complejo
  La Paz – Bolivia
  2010

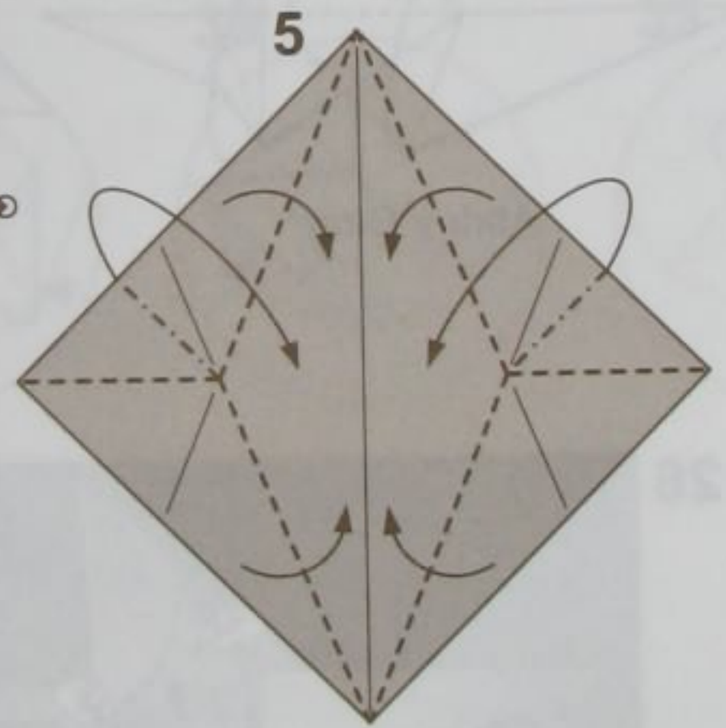


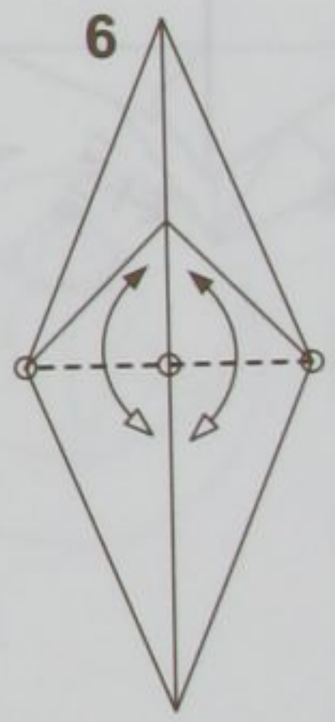


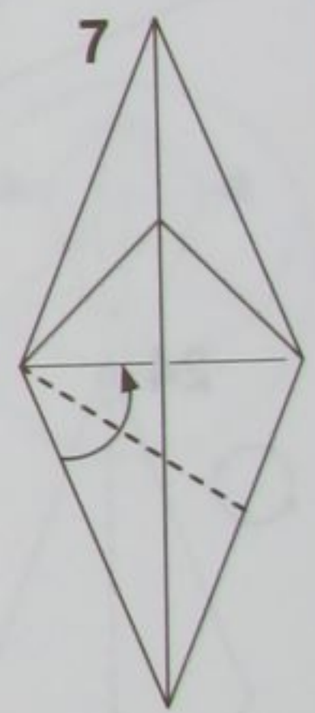



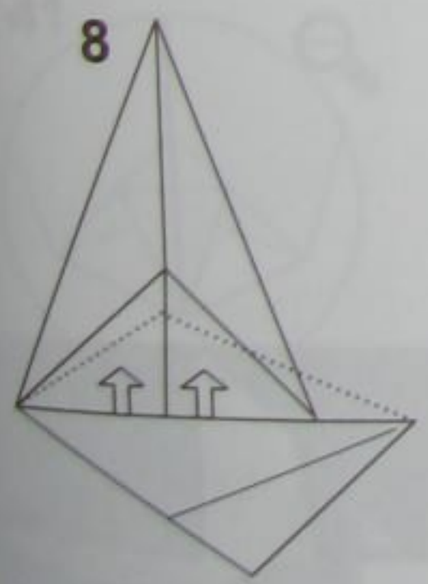



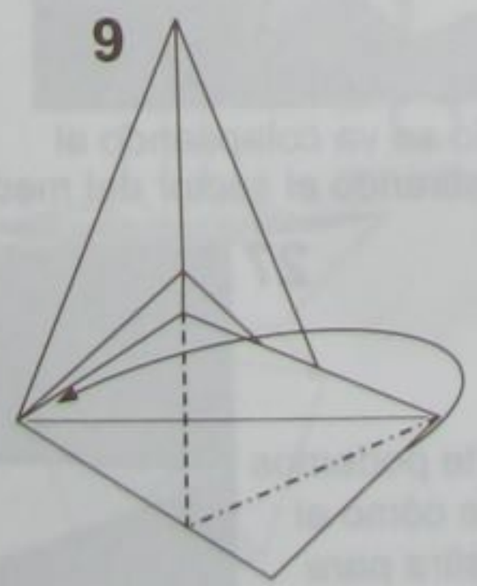



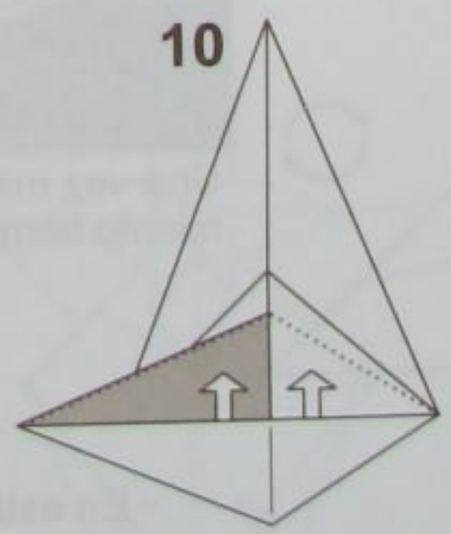




Sacar la capa que
esta por dentro

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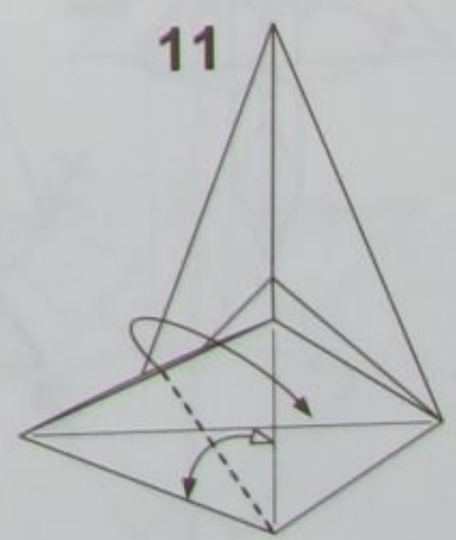
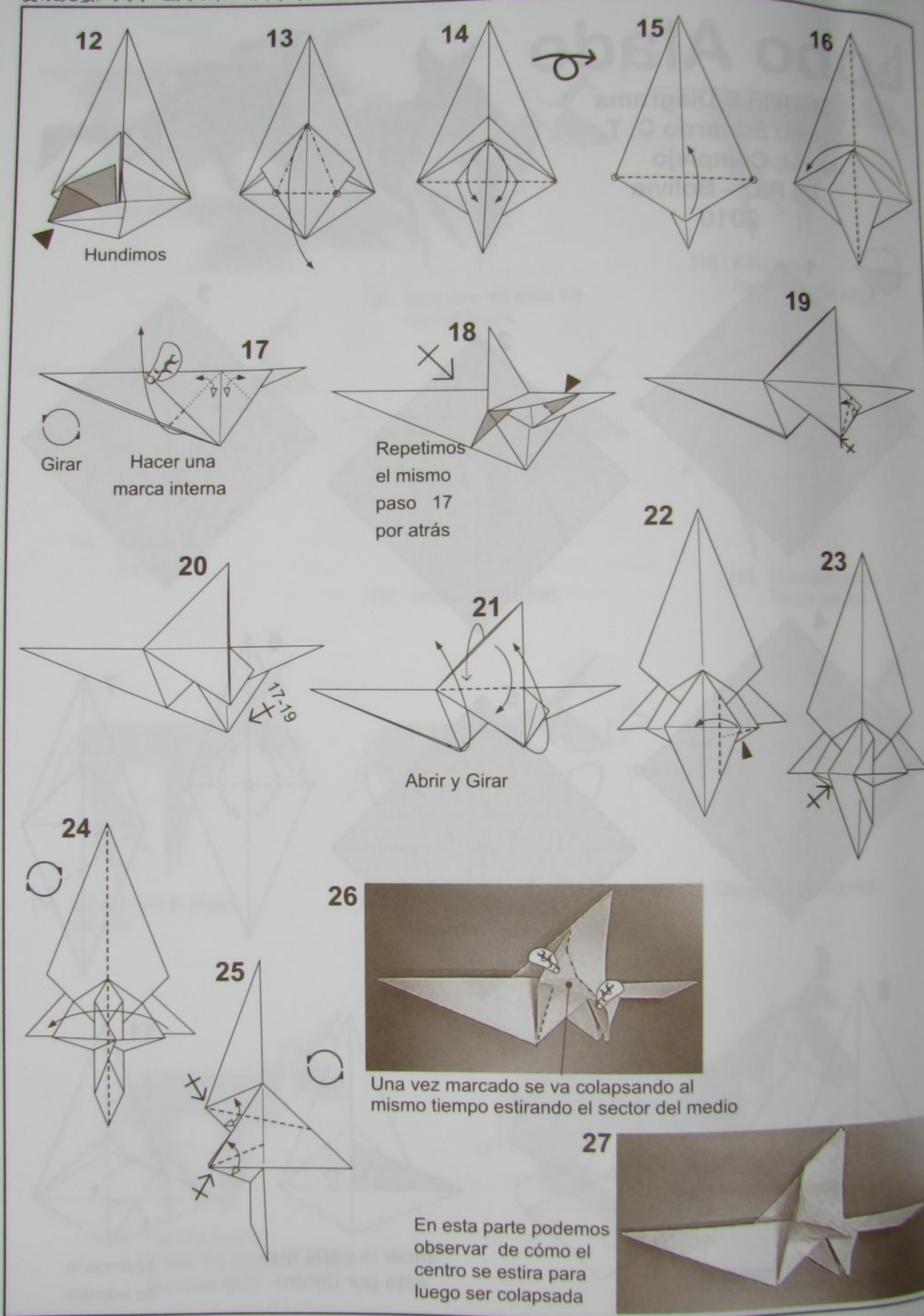
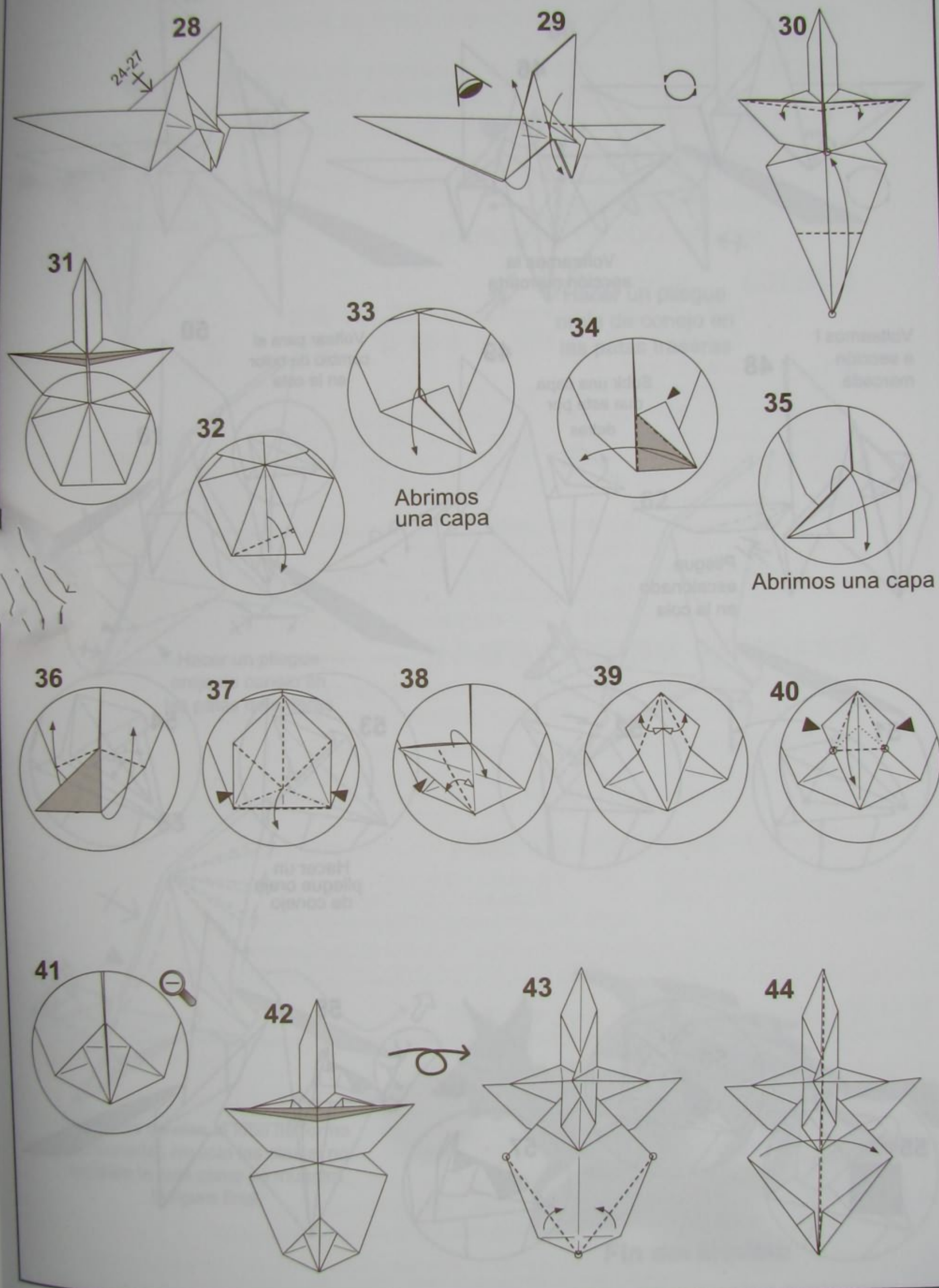
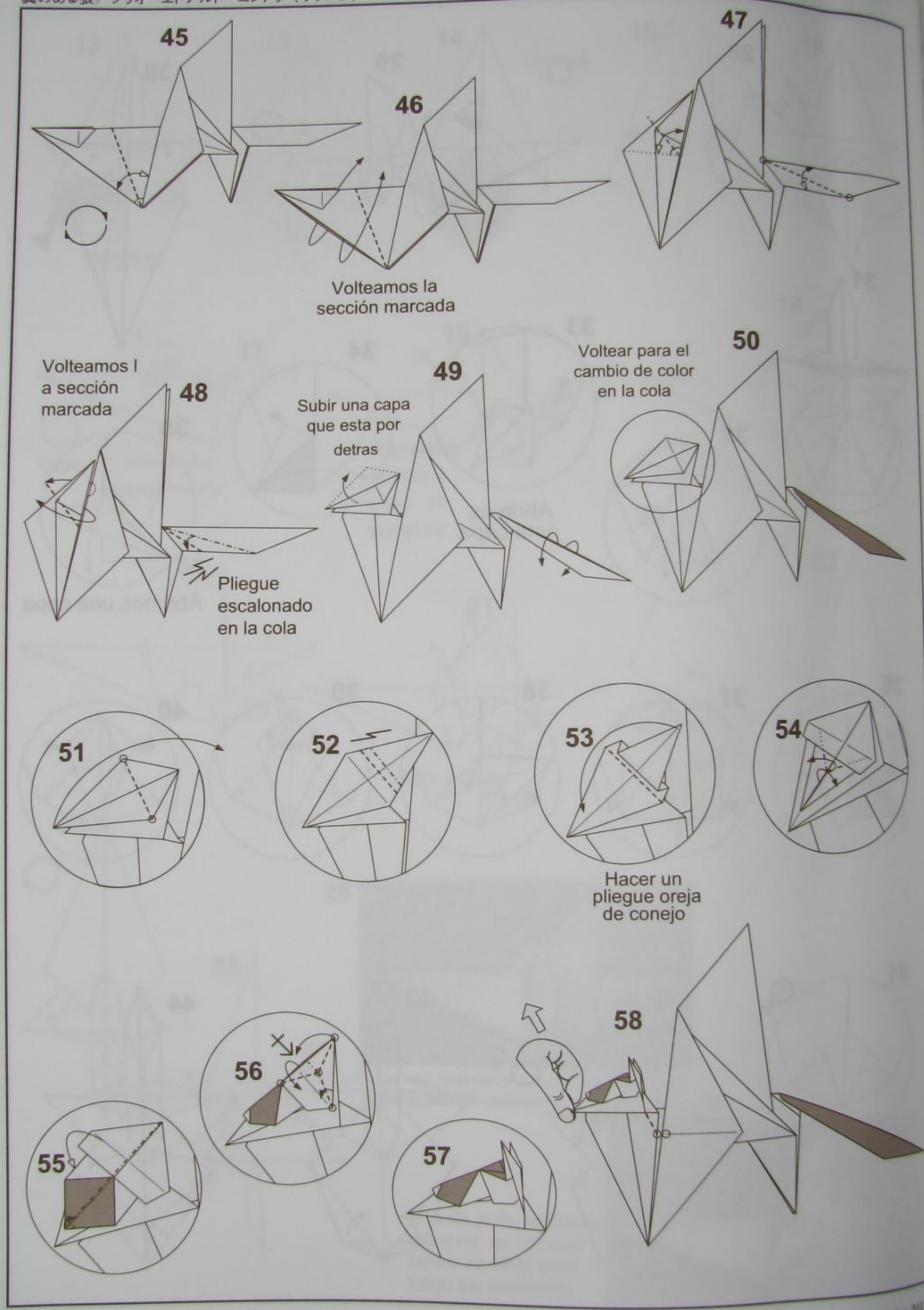
esta por dentro

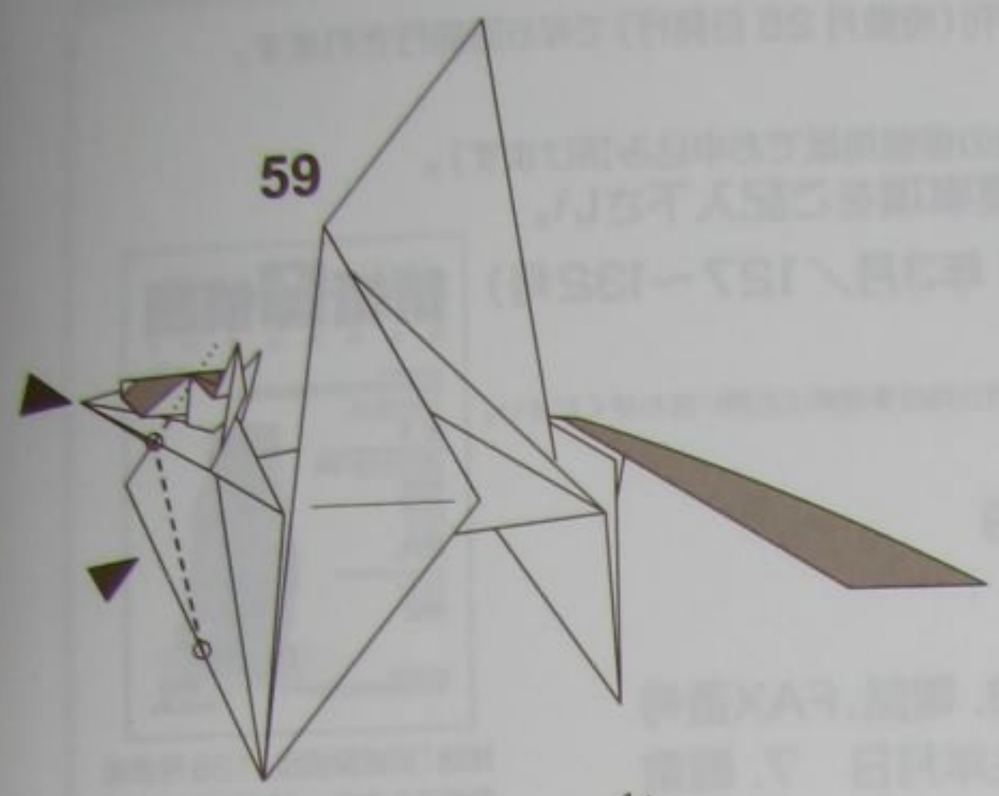


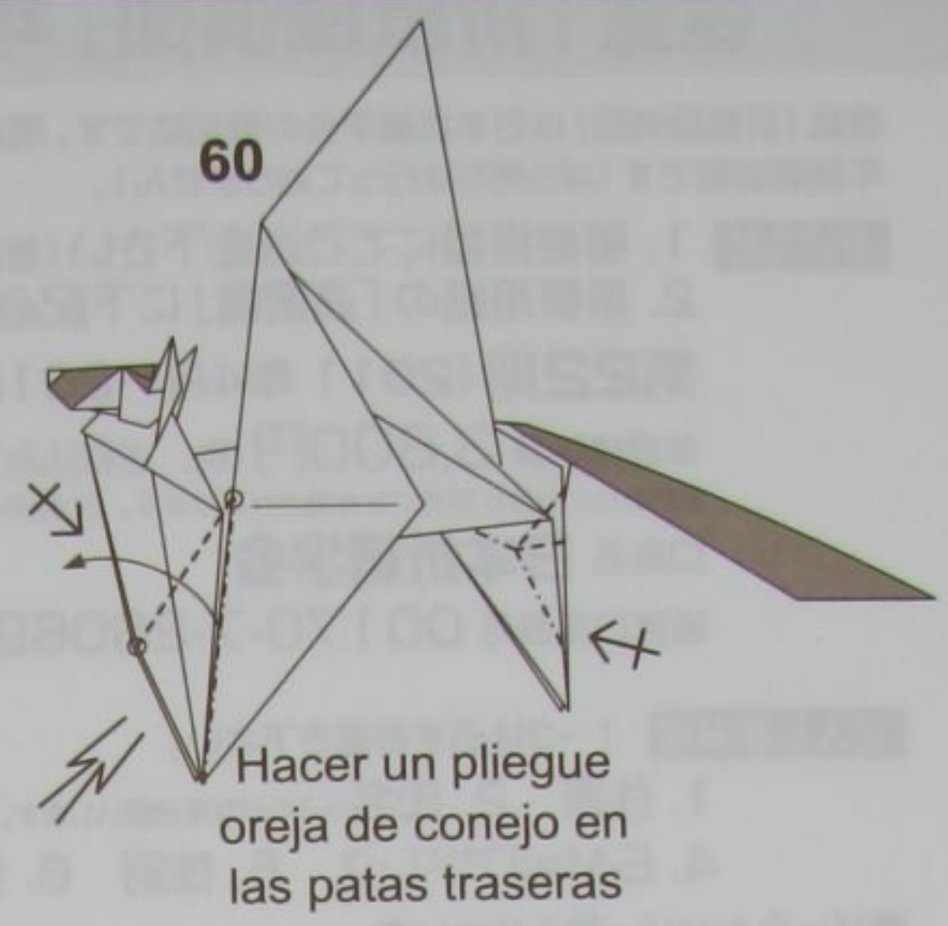

Abrimos lo
de adentro

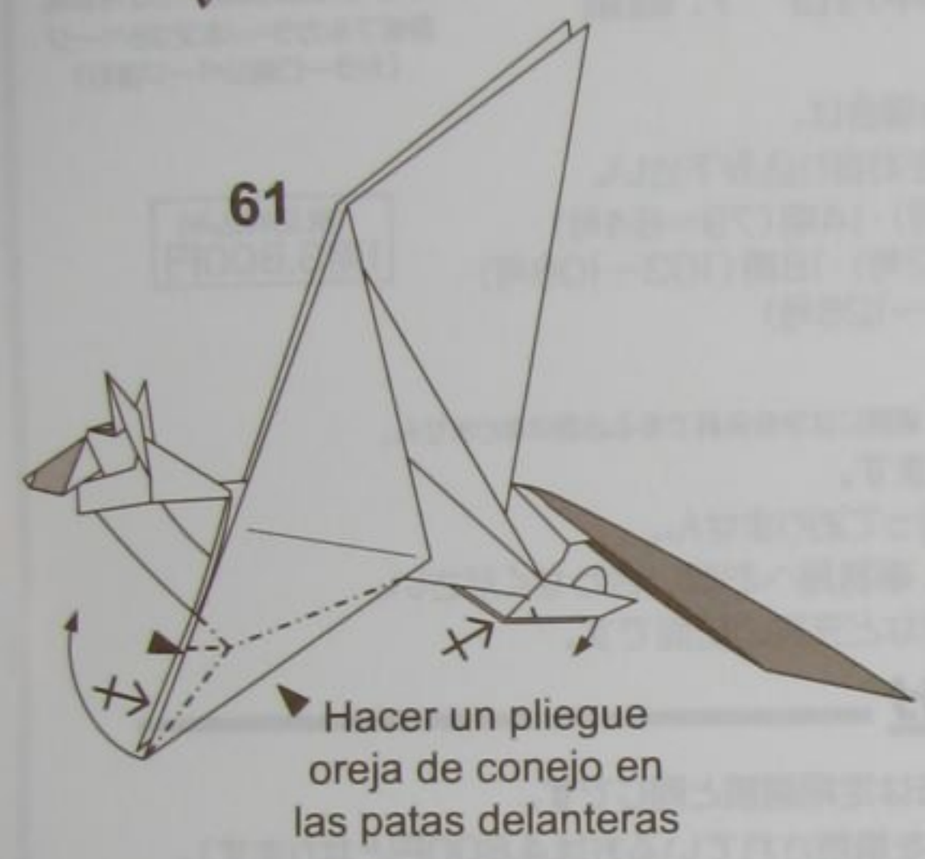

12
Hundimos
13
14
15
16
17
Girar
Hacer una
marca interna
18
Repetimos
el mismo
paso 17
por atrás
19
20
17-19
21
Abrir y Girar
22
23
24
25
26
Una vez marcado se va colapsando al
mismo tiempo estirando el sector del medio
27
En esta parte podemos
observar de cómo el
centro se estira para
luego ser colapsada

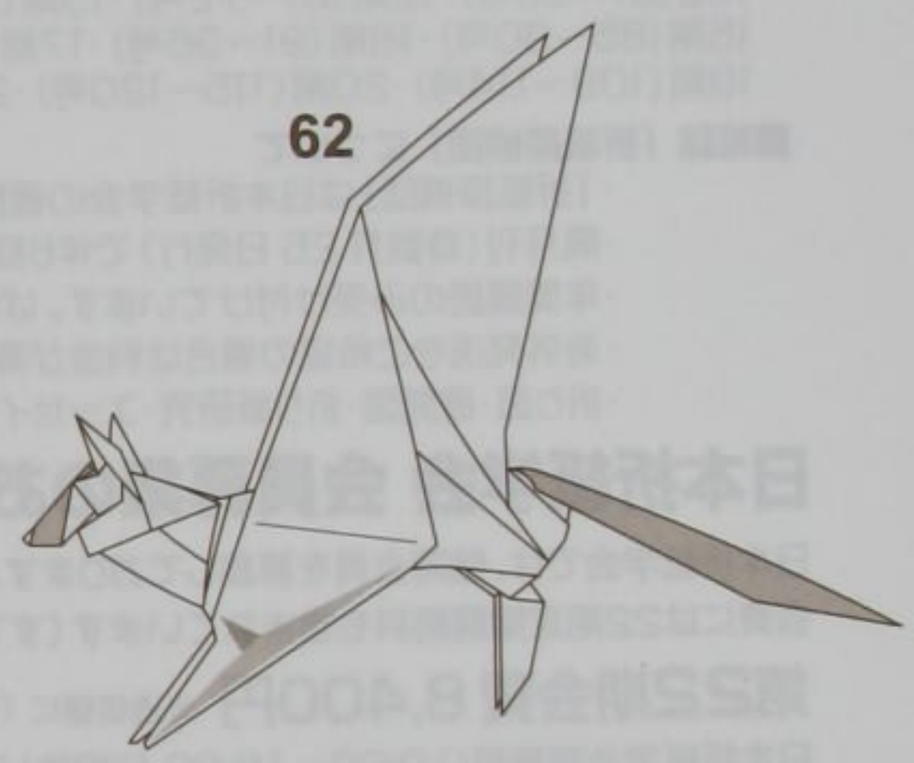

28
24-27
29
30
31
32
33
Abrimos una capa
34
35
Abrimos una capa
36
37
38
39
40
41
42
43
44

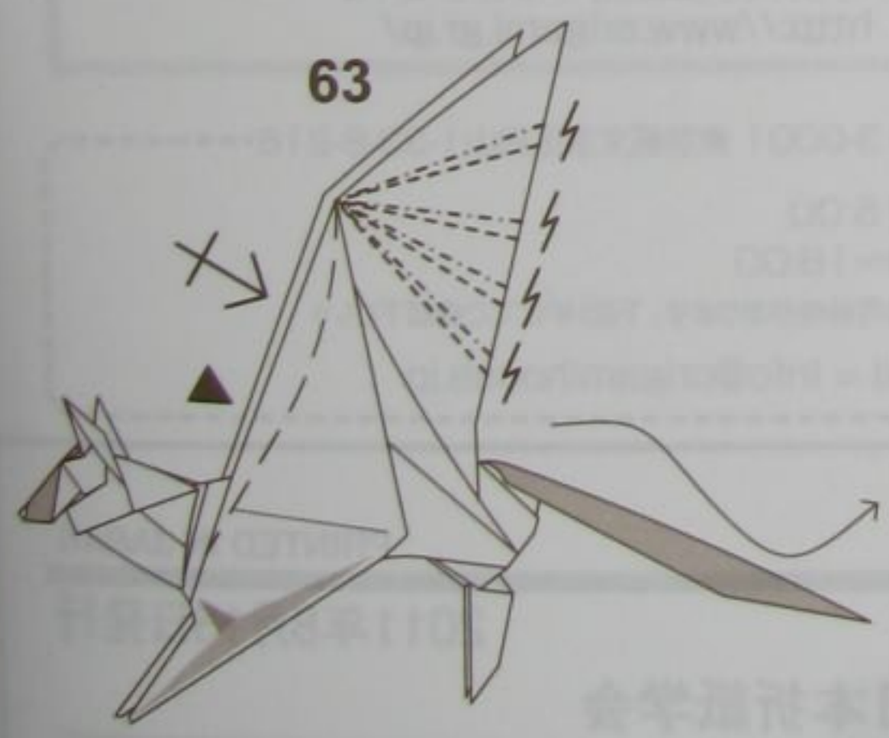

45
46
Volteamos la sección marcada
47
Volteamos l a sección marcada
48
Pliegue escalonado en la cola
Subir una capa que esta por detras
49
Voltear para el cambio de color en la cola
50
51
52
53
Hacer un pliegue oreja de conejo
54
55
56
57
58




Dar forma de alas al lobo de forma escalonado , no solo las alas si no también la cola como se muestra la figura final

**Fin del Modelo**

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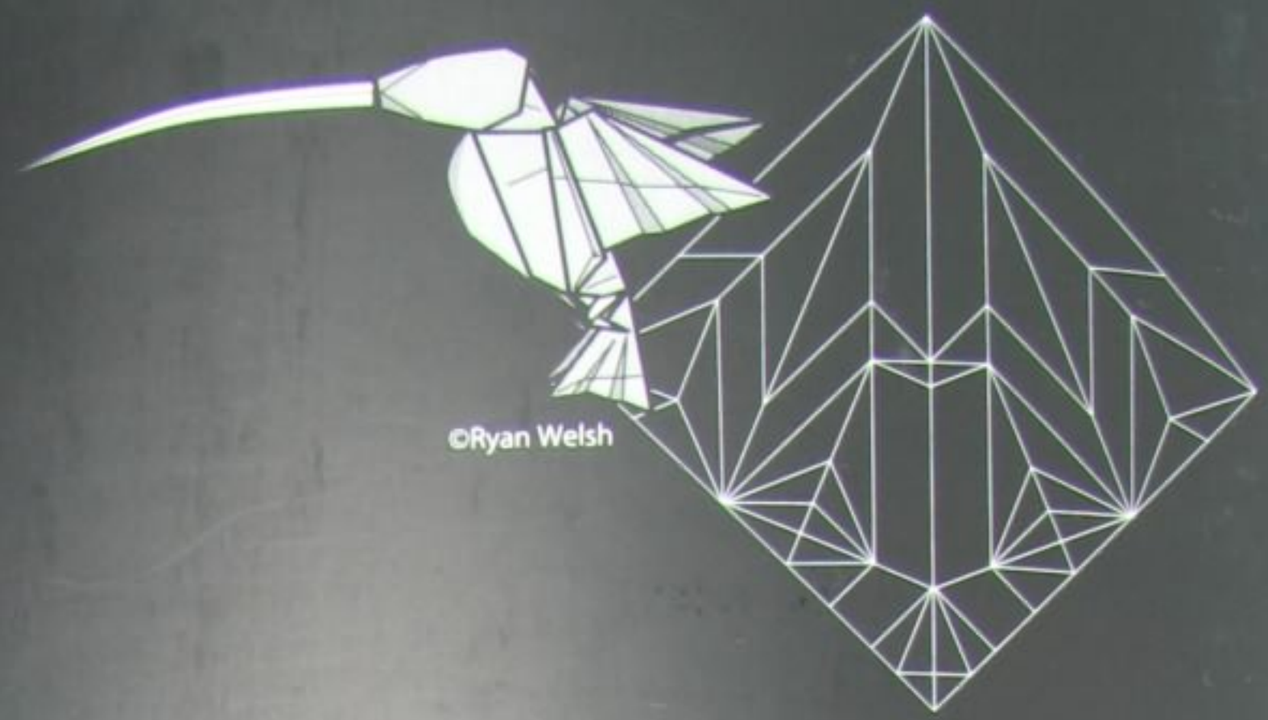

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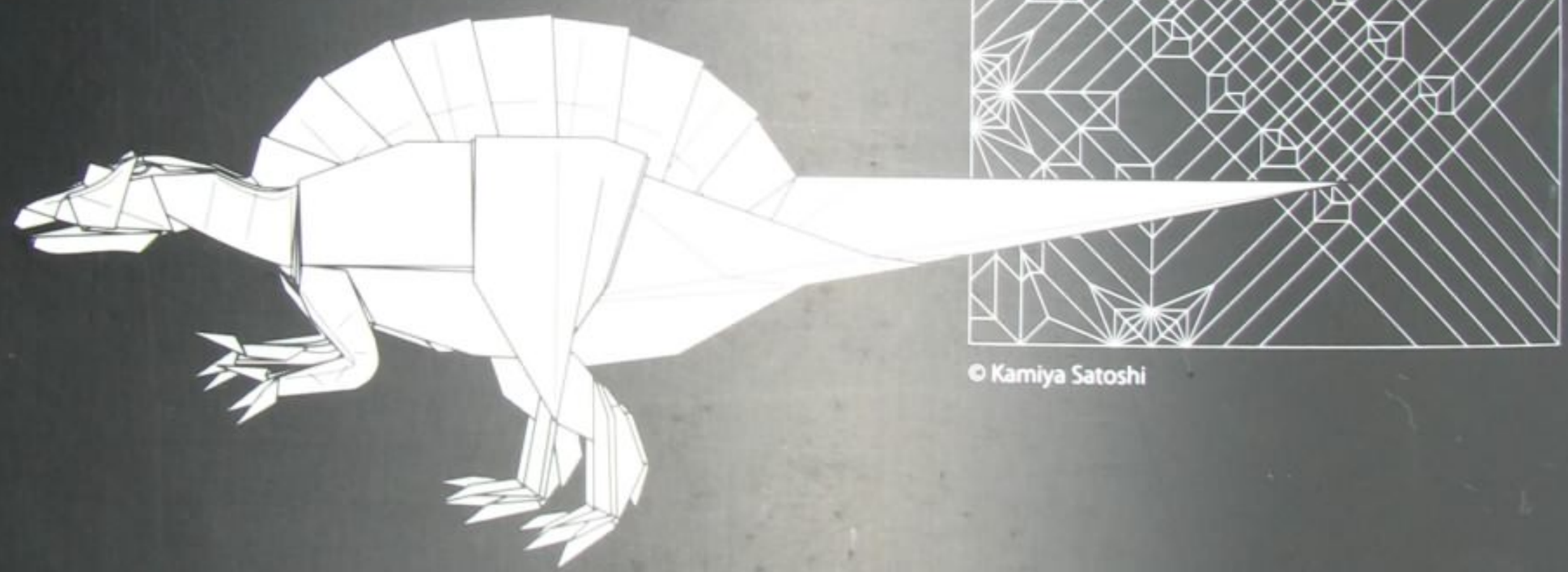

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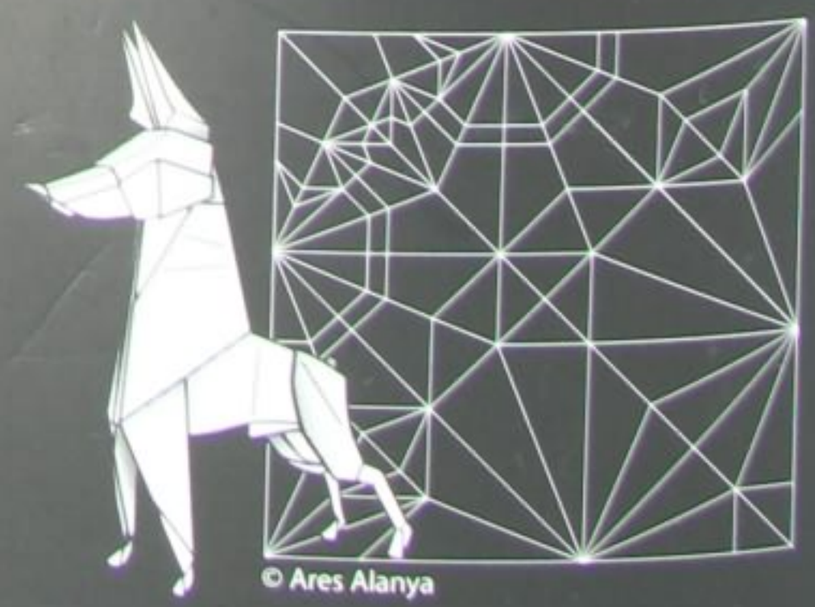

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