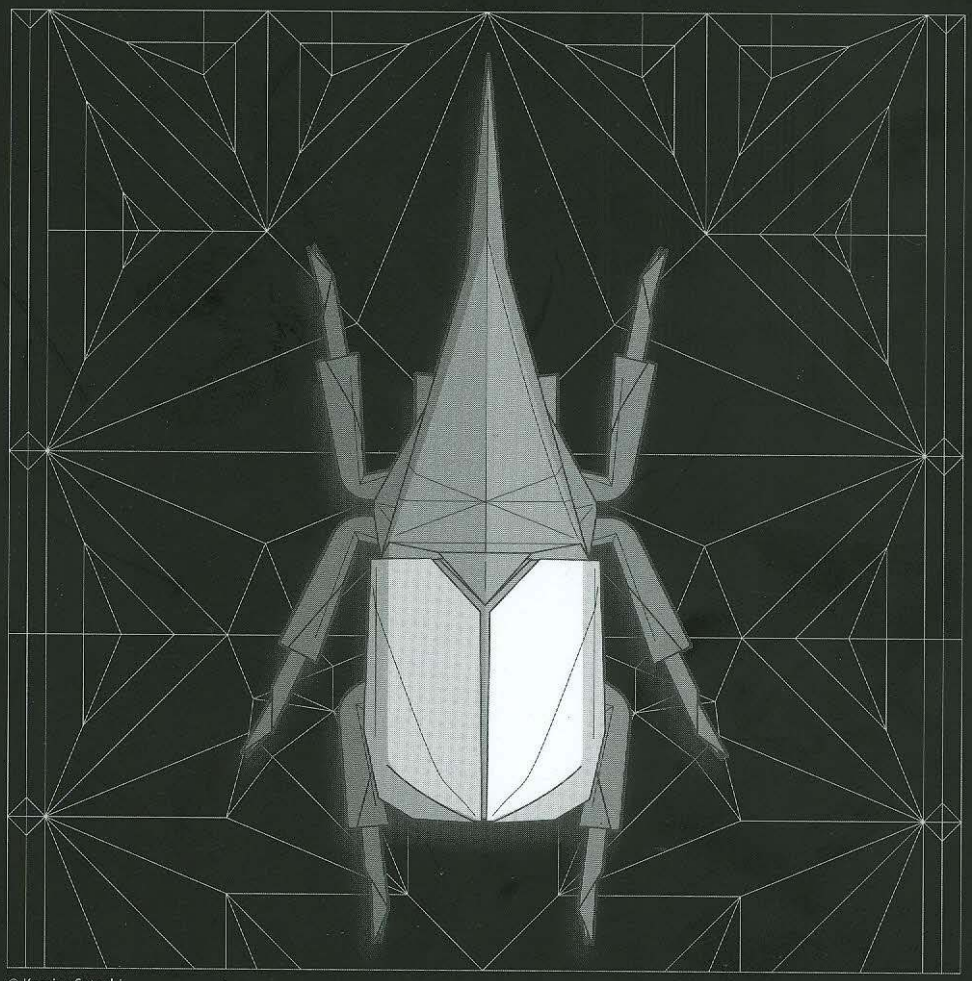
ORIGAMI TANTEIDAN 18th CONVENTION

第18回 折紙探偵団コンベンション



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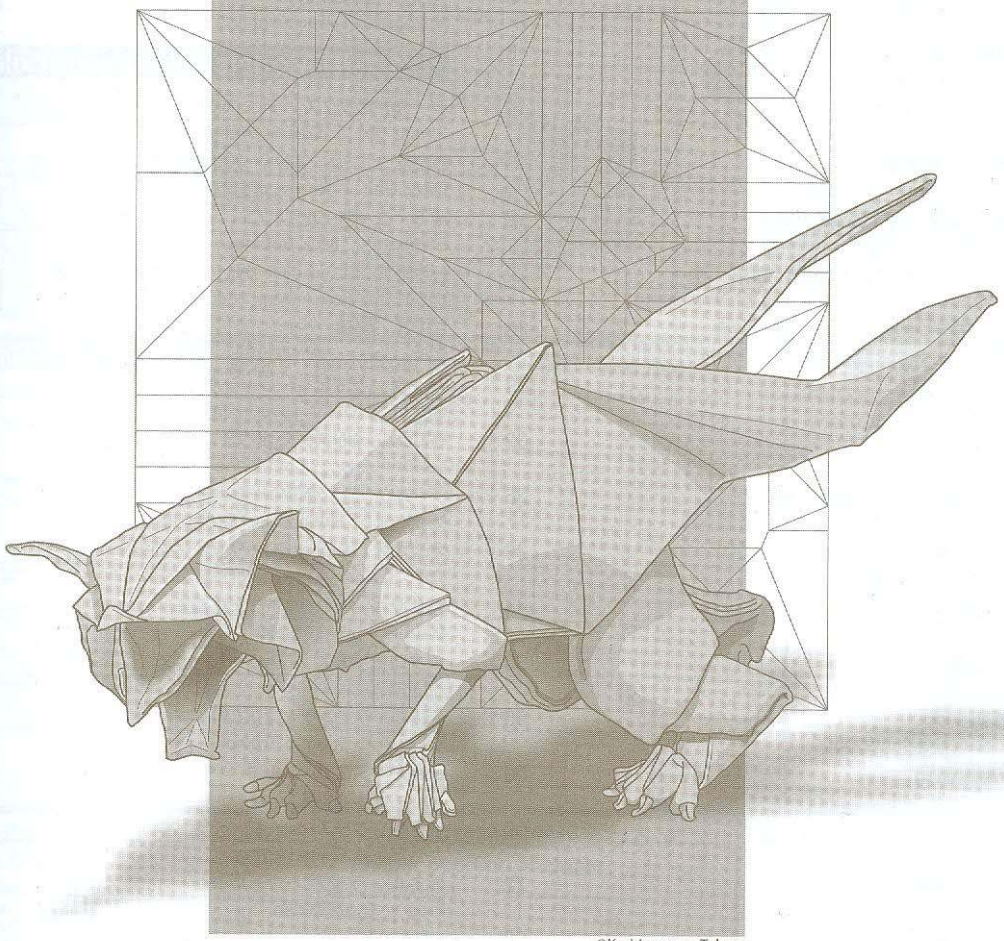
折り図集 Vol.18

発行・日本折紙学会

18th Origami Tanteidan Convention

第18回 折紙探偵団 コンベンション



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折り図集

Vol. 18

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Japan Origami Academic Society

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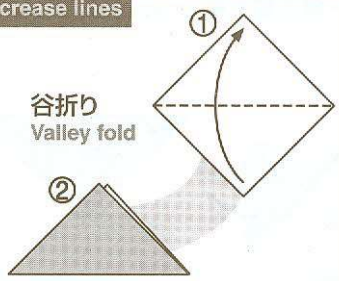
折り図記号 Symbols for Folding

折り線の種類 Types of crease lines

谷折り線 Valley fold

手前に折る
Fold paper forwards

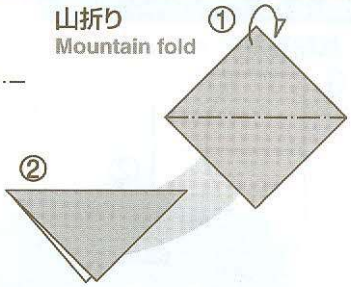
谷折り
Valley fold



山折り線
Mountain fold

後ろへ折る
Fold paper backwards

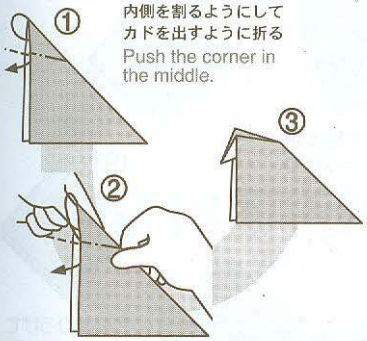
山折り
Mountain fold



折り方の技法 Basic Folding Skills

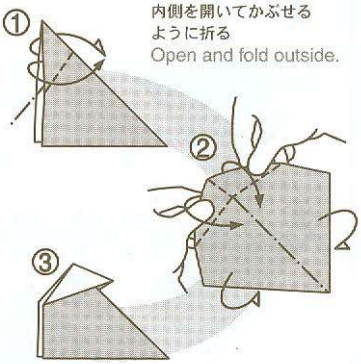
中わり折り Inside-reverse fold

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.



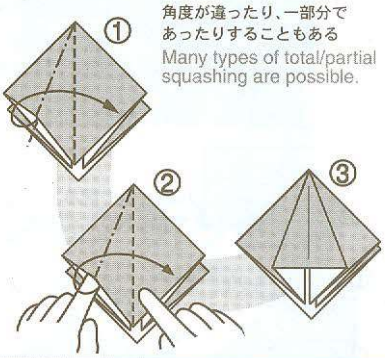
かぶせ折り Outside-reverse fold

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

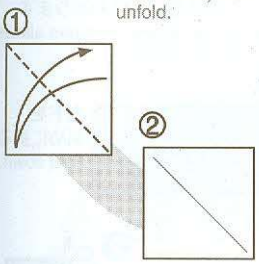
角度が違ったり、一部分で
あったりすることもある
Many types of total/partial squashing are possible.



いろいろな記号 Symbols

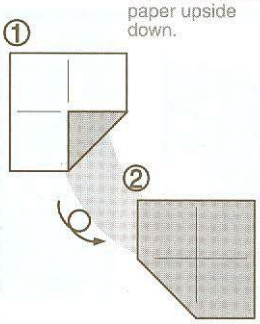
折り筋をつける Making a crease line

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.



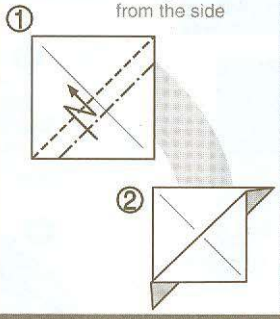
裏返す Turn paper over

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.

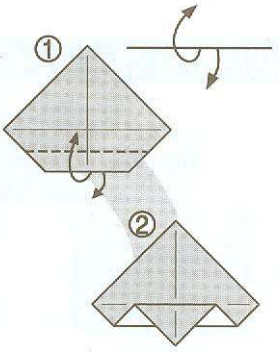


段折り Pleat fold

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

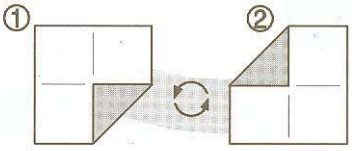
ひろげる Open up

○と○を
合わせて折る
Match circled points

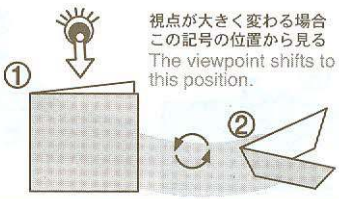
巻くように折る
Roll the flap by repeated folds

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.

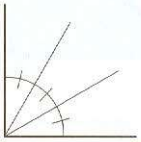


等分記号 Division

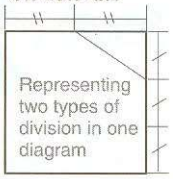
長さの等分 Dividing the length

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



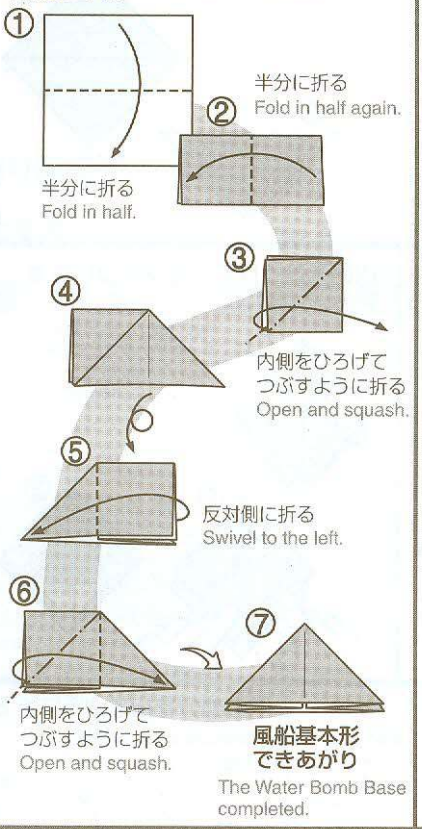
1つの図で2種類の
等分を表す場合



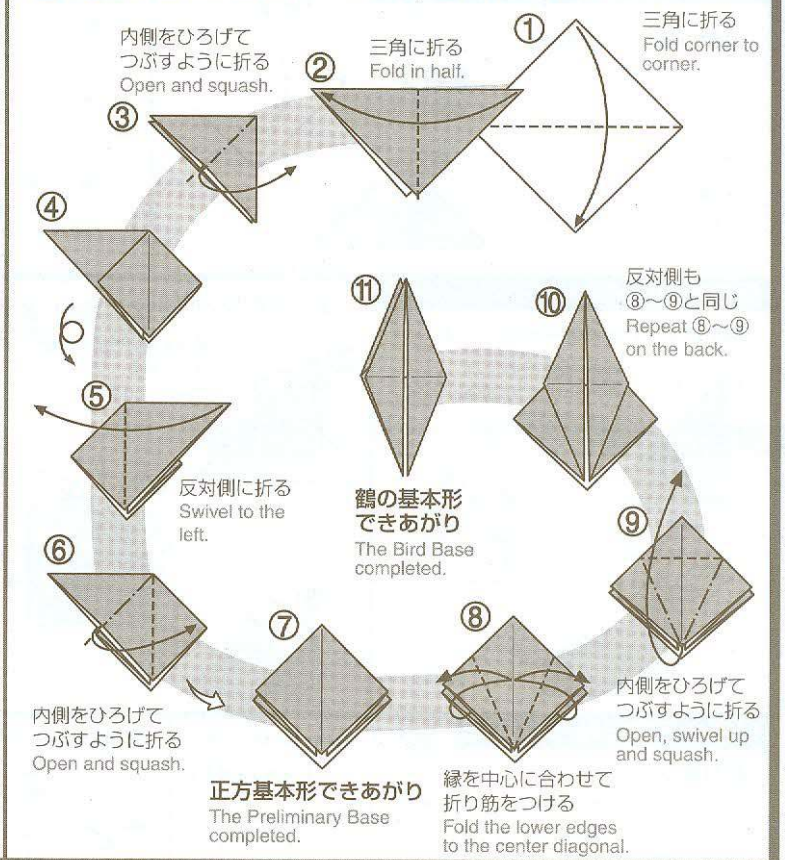
基本形／沈め折り Preliminary Bases and Sink

基本形 Preliminary bases

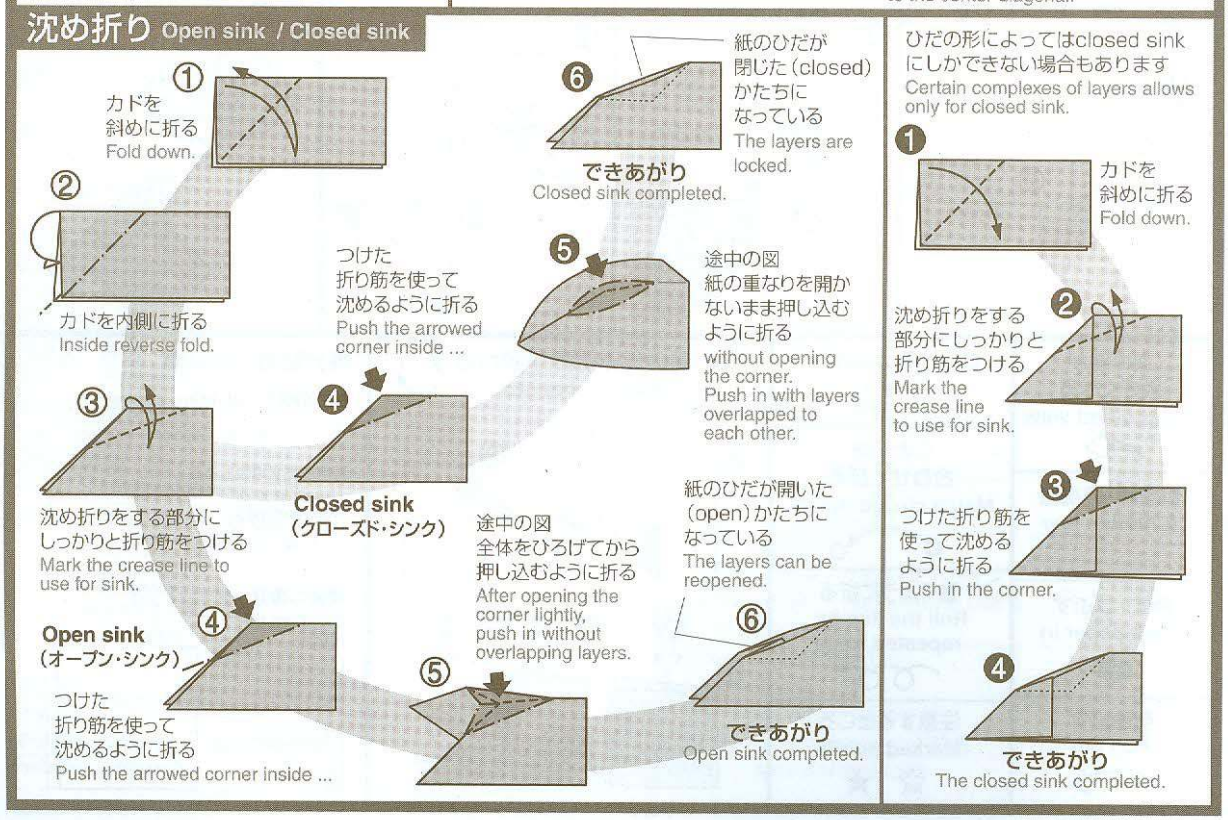
風船基本形 Water Bomb Base

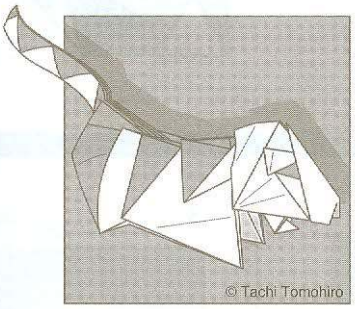


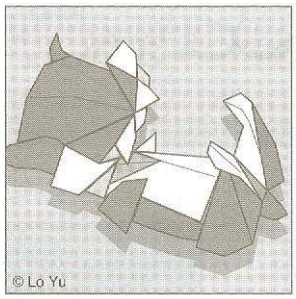
正方基本形と鶴の基本形 Preliminary Base / Bird Base

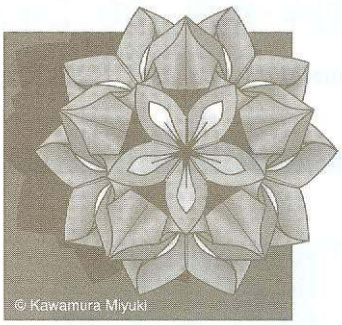


沈め折り Open sink / Closed sink







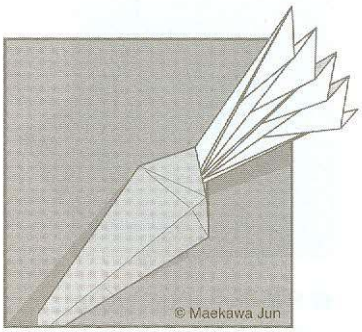


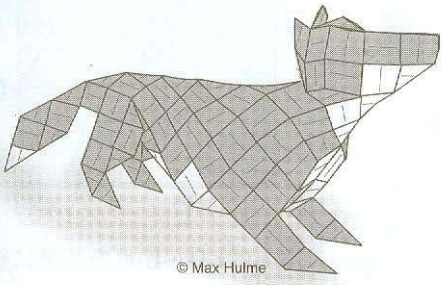
第18回折紙探偵団コンベンション折り図集

18th Origami Tanteidan Convention Book

国内編／Models by Japanese Folders　P.6

海外編／Models by Foreign Folders　P.162

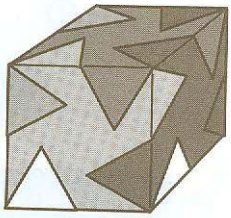


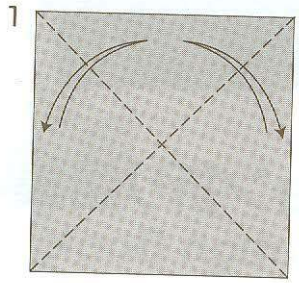


Combine

創作・作図　2012年5月

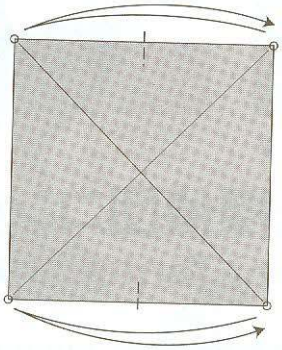
Fumiaki Kawahata　川畑文昭





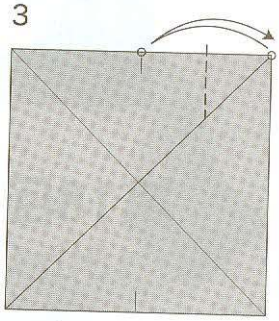
1

折すじをつける



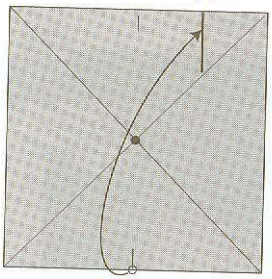
2

つまむように印をつける
全体に折すじはつけない



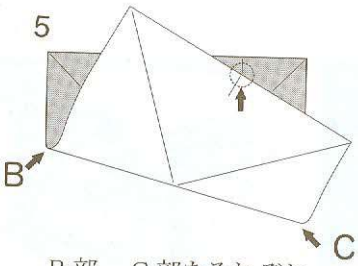
3

折すじをつける



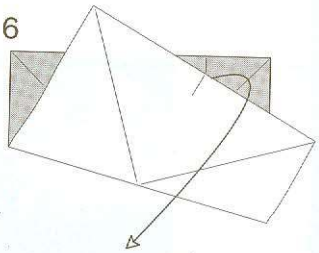
4

●を基準点にして、○が
A 線上に重なるように折る



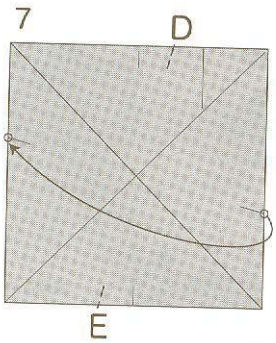
5

B 部、C 部をそれぞれ
つまむように印をつける
全体に折すじはつけない



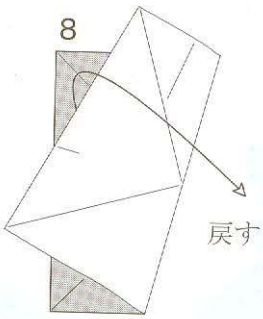
6

戻す



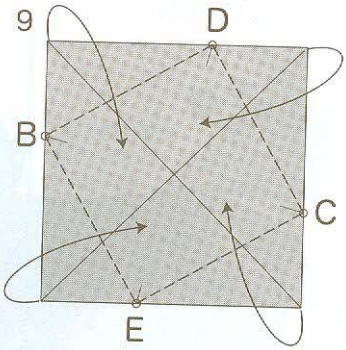
7

○同士をあわせ、
D 部、E 部をそれぞれ
つまむように印をつける



8

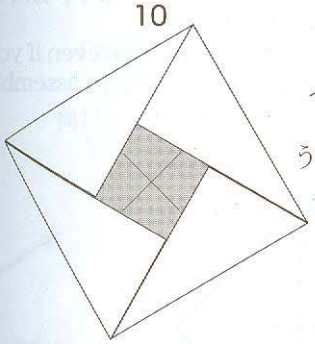
戻す



9

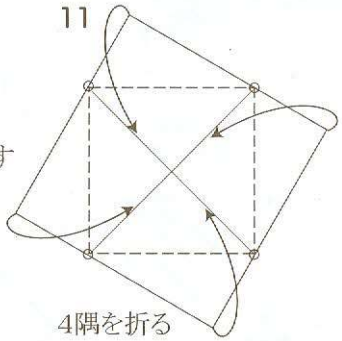
B・C・D・E 点を基準に折る

10



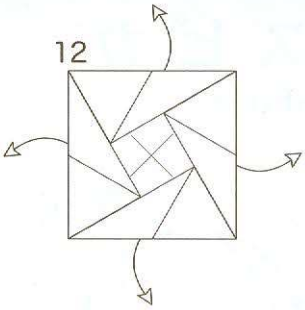
うらがえす

11



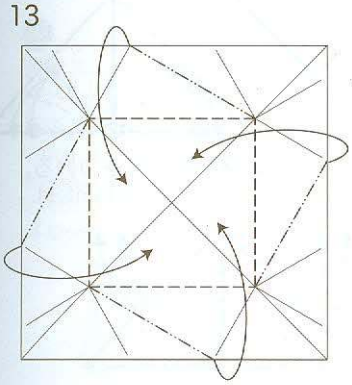
4隅を折る

12



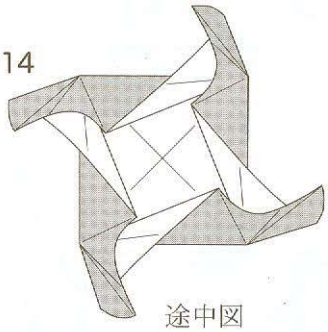
全部広げて戻す

13



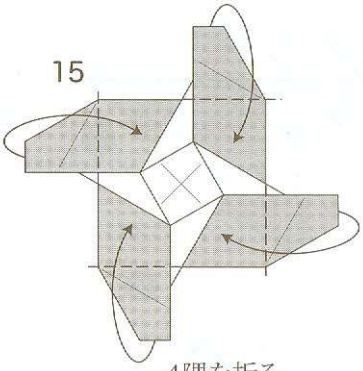
ついている折すじをつかって折る

14



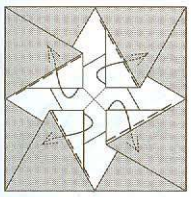
途中図

15



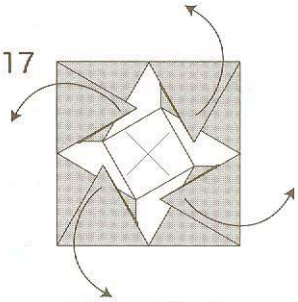
4隅を折る

16



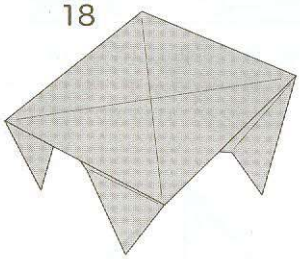
内側に折り込む

17



直角に起こす

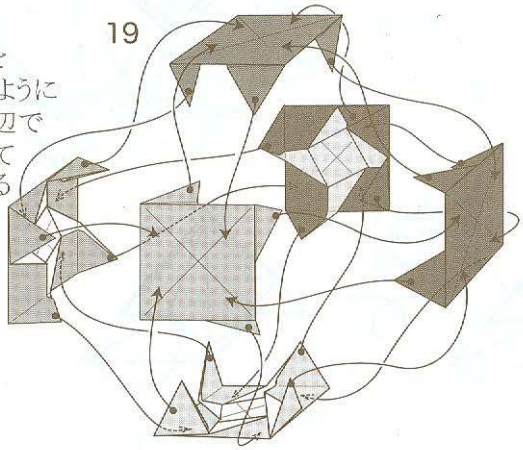
18



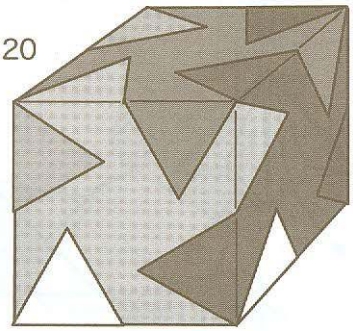
6 枚同じものを折り、
組み合わせる

19

三角のカドを
外側に出すように
それぞれの辺で
かみあわせて
立方体を作る



20



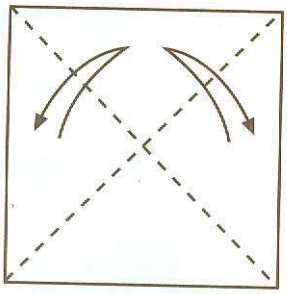
できあがり

Design : 20111111

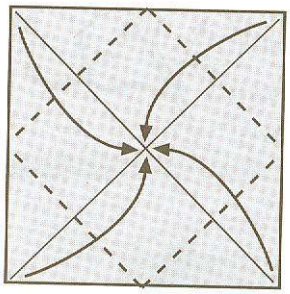
スピカ
SPICA

©2012 Miyuki Kawamura
川村みゆき

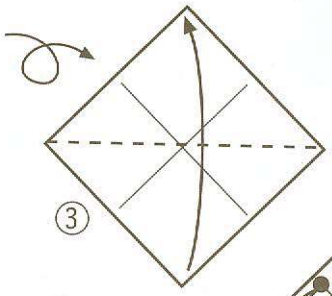
小さな紙でも比較的大きく仕上がります。厚くて硬い紙の方が組み立てやすいです。
The finished model is relatively large even if you use small piece of paper. It is easy to assemble if you use thick and hard papers.



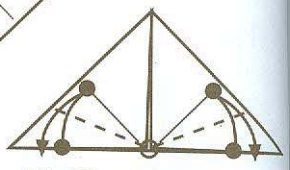
①



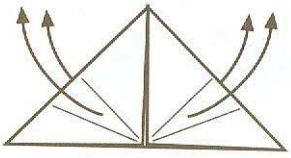
②



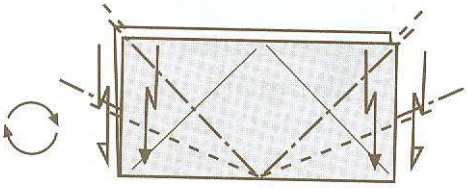
③



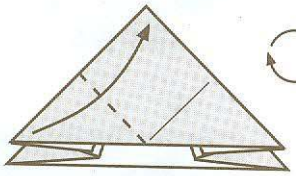
④ 折り目をつける。
Fold and unfold.



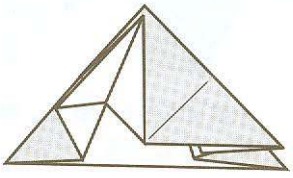
⑤ 開く。
Unfold.



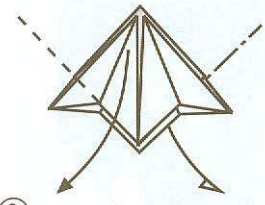
⑥



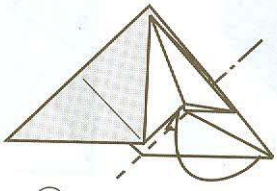
⑦ カドを折り上げながら
開いてつぶす
Fold a corner up and squash.



⑧ 4つとも同じように折る
Do the same on all four corners.

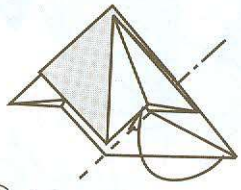


⑨
2つのカドだけ折り下げる
Fold corners down.

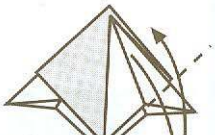


⑩ 中割り折り
Inside reverse fold.

裏返す
Turn the model over

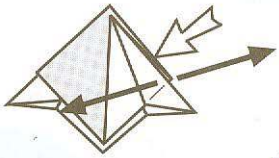


⑪ 中割り折り
Inside reverse fold.

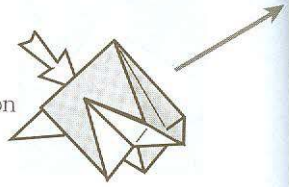


⑫
折り目をつける。
裏も同じ。
Fold and unfold.
Do the same on the reverse side.

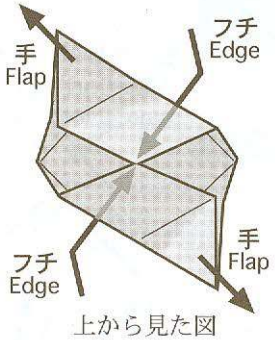
⑬
中央を開いて、
中を平らにする。
Open the pockets and make the center area flat.



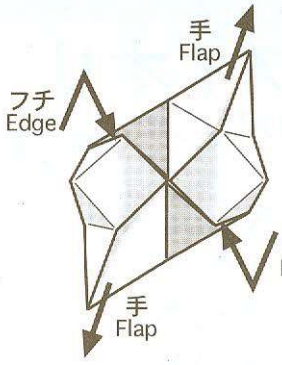
⑭
左側も同じ
Do the same on the left side.



「スピカ」のユニット
The SPICA module
同じものを 30 個作ります。
You need 30 modules.



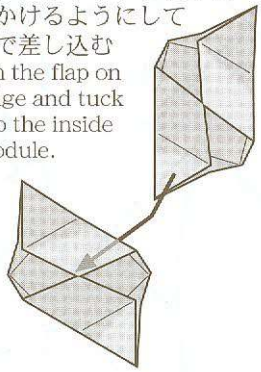
上から見た図
Top view

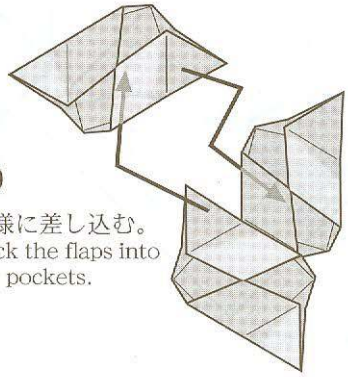


下から見た図
Bottom view

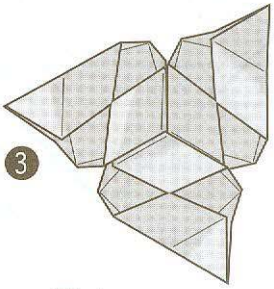
組み方 /Assembly

❶
別のユニットのフチに手を
ひっかけるようにして
奥まで差し込む
Catch the flap on
an edge and tuck
it into the inside
of module.

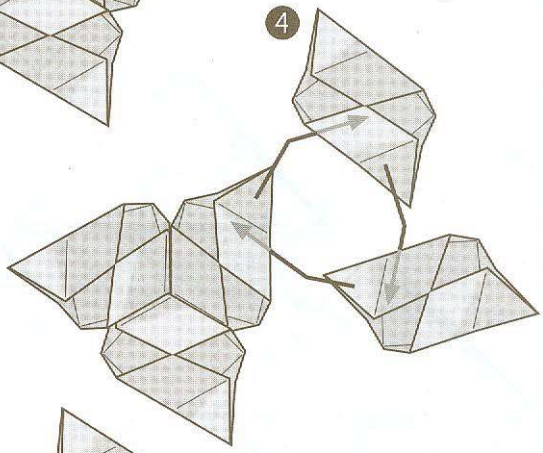




❷
同様に差し込む。
Tuck the flaps into
the pockets.

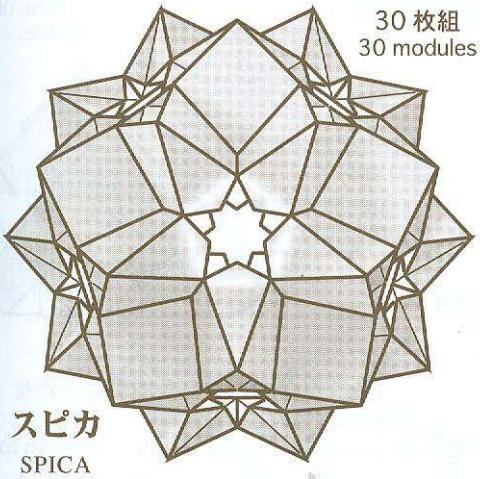


❸

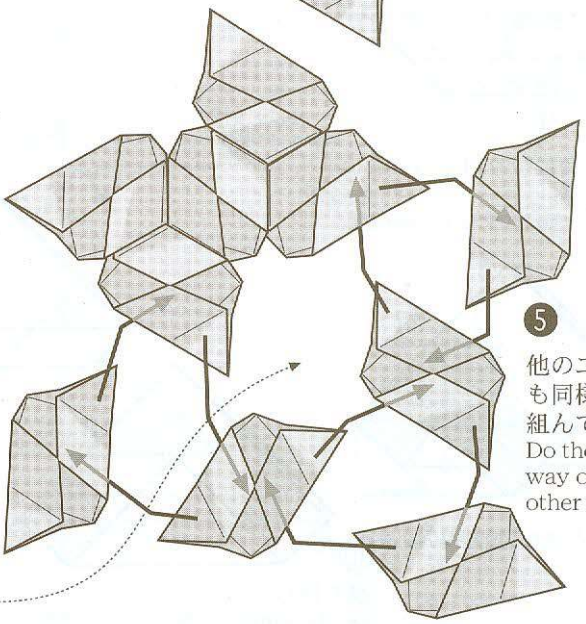


❹

30 枚組
30 modules



スピカ
SPICA



❺
他のユニット
も同様に
組んでいく
Do the same
way on the
other modules.

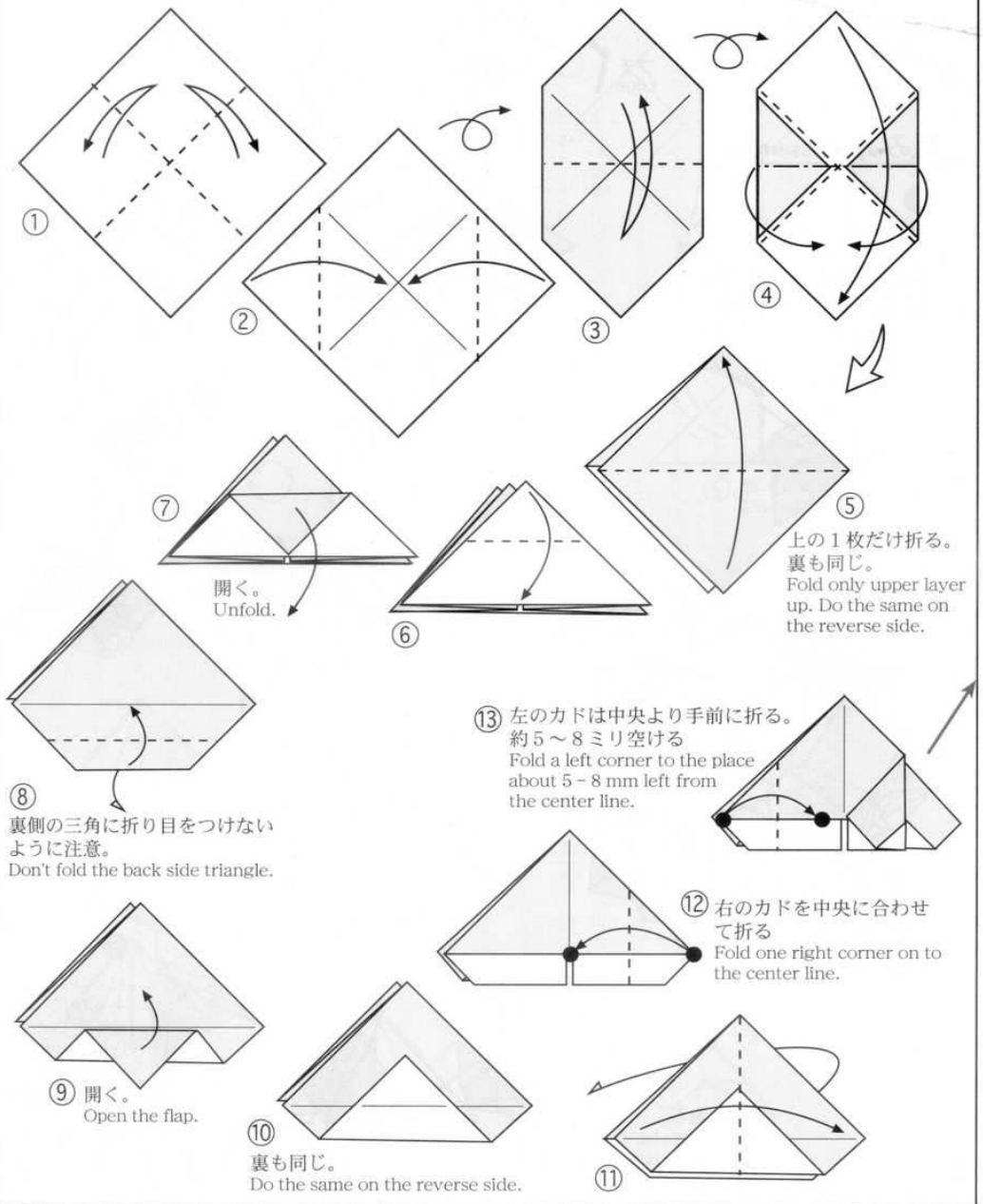
ここは 5 つのユニット
でできています。
This hole is formed
by 5 modules.

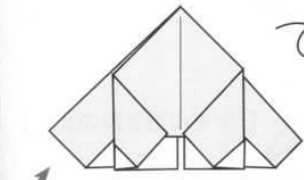
Design : 20111209

ミルフィオリ
MILLEFIORI

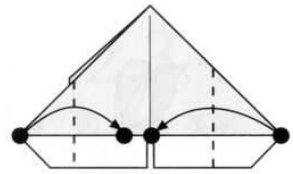
©2012 Miyuki Kawamura
川村みゆき

「ミルフィオリ」というのは「千の花」という意味のイタリア語です。花の中央部分の折り方を変えると無数のバリエーションが出来ます。
"Millefiori" means thousand flowers. You can make a lot of variation of flowers.

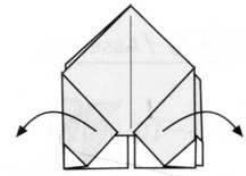




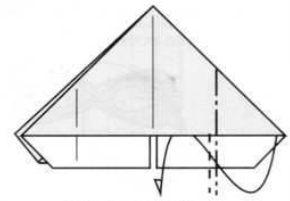
⑭ 裏返す。
Turn the model over.



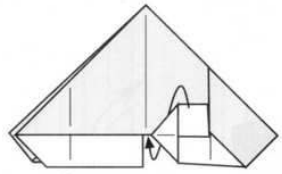
⑮ 同様に、向かって右のカドは中央に、左のカドは中央から5～8ミリ離して折る。
Do the same on the reverse side. Fold a right corner on to the center line, and a left corner to the place of left side of the center line.



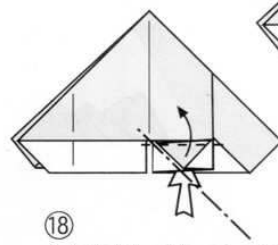
⑯ 4つの角を開く。
Unfold the four flaps.



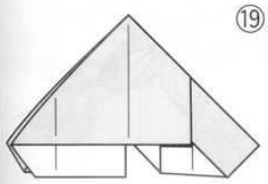
⑰ 中割り折り
Inside reverse fold.



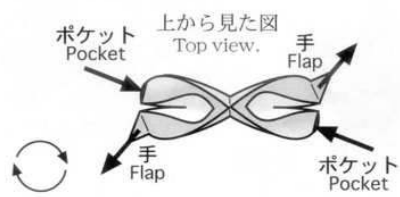
⑲ 手前のポケットの中へ入れる
Tuck the flap inside.

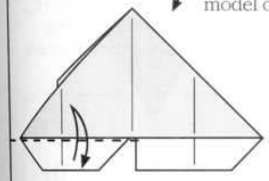


⑱ 中央を下から開いてつぶす。
Open the center and squash.

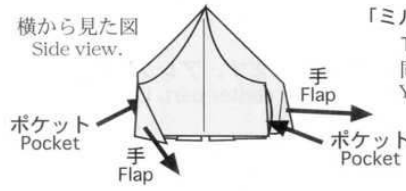


⑳ 裏返す。
Turn the model over.

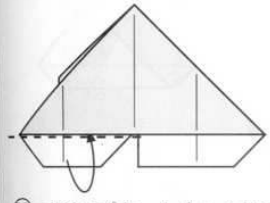




㉑ 折り目をつける。
Fold and unfold.

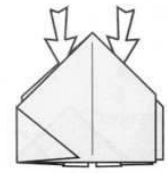


「ミルフィオリ」のユニット
The MILLFIORI module
同じものを30個作ります。
You need 30 modules.



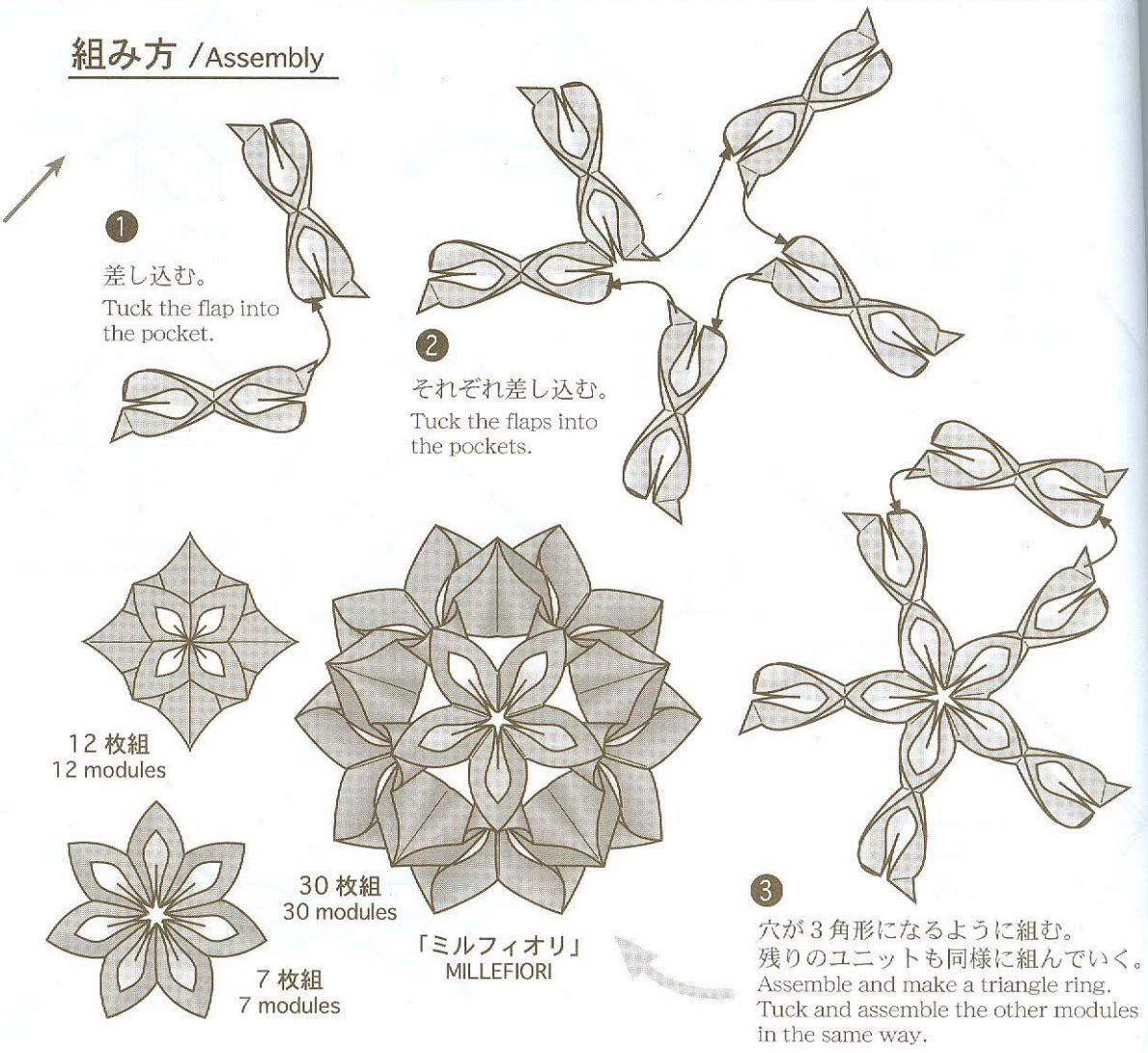
㉒ 手前のポケット中へ入れる
Tuck the flap inside.

㉓ カドを折る。
右側も⑰～㉓と同じ。
Fold the left corner.
Do the same steps on the right side.

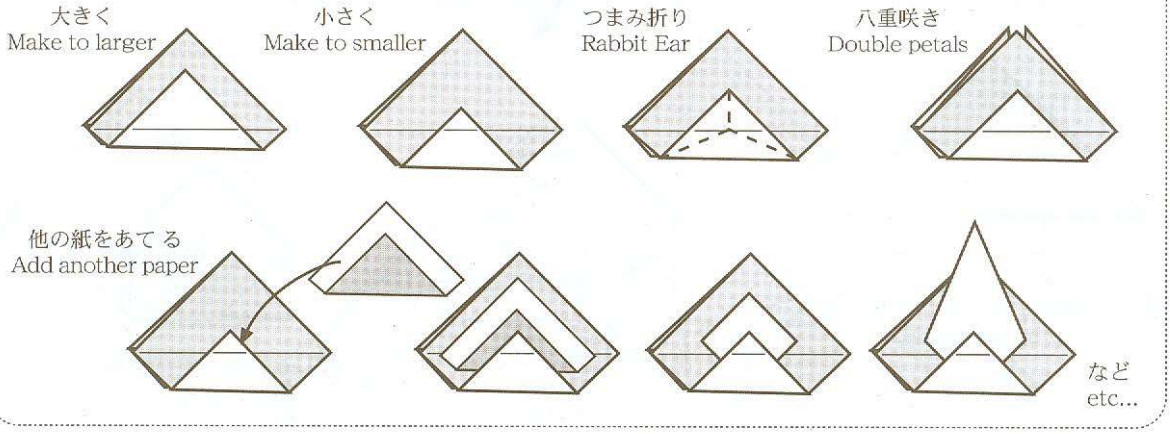


㉔ 上を開いて花びらの形にする。
Open two top pockets and make two petals.

組み方 /Assembly



花の中心部分は好きな形に作れます。アレンジを楽しんでください。
There are many arrangement of center part. Let's fun!

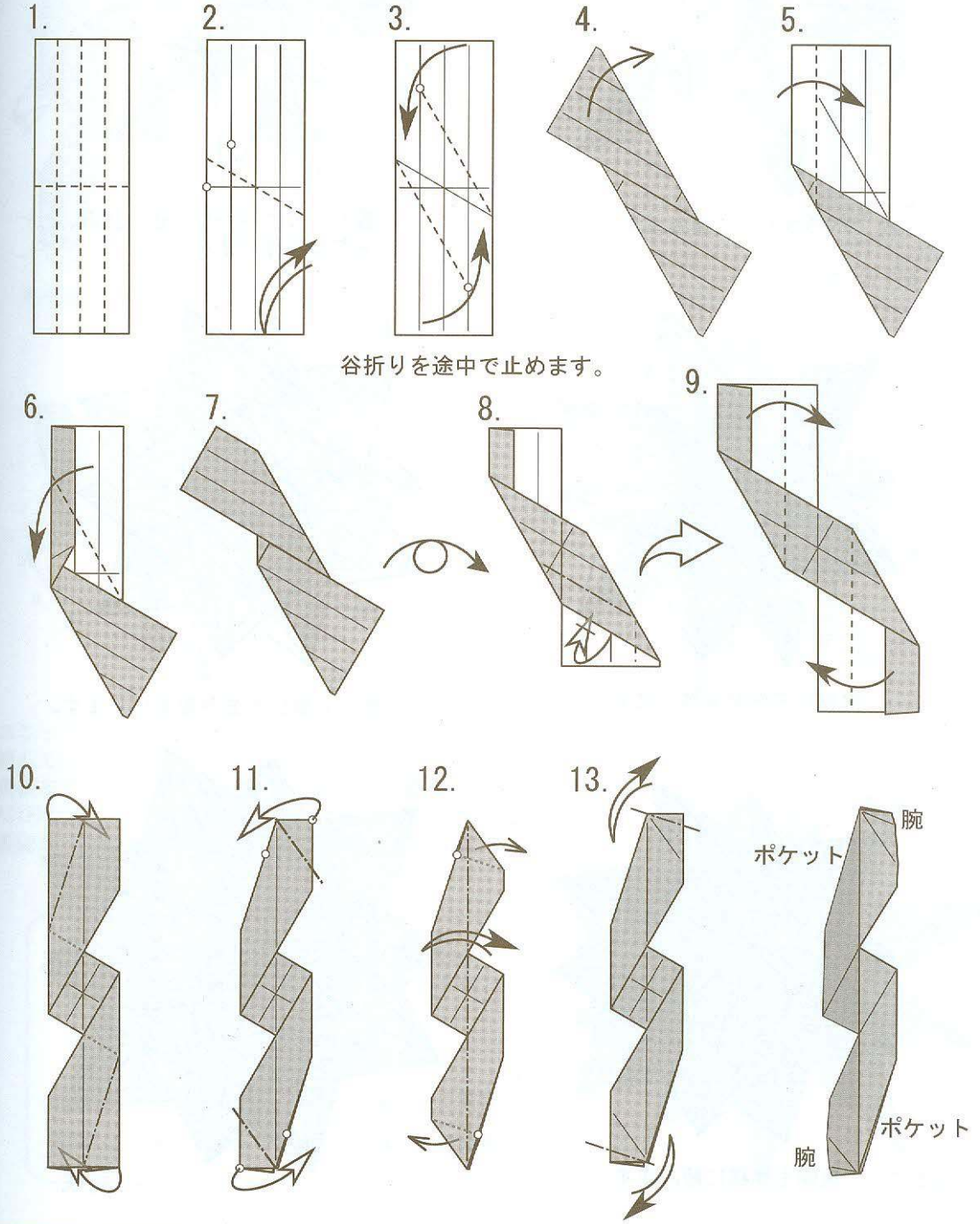


ASTERISK 1,2,3,4

作／図 川島 英明
©2006 Kawashima Hideaki

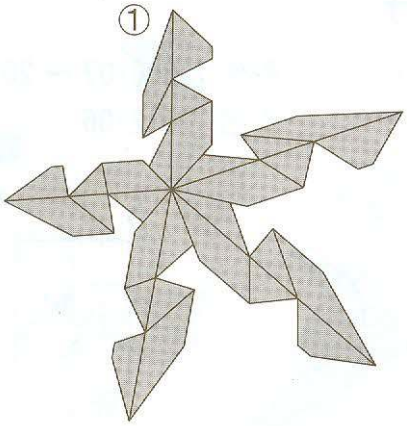
創作：2006/07 ～ 2011/12
作図：2012/06

【 1:3 の紙を使います 】



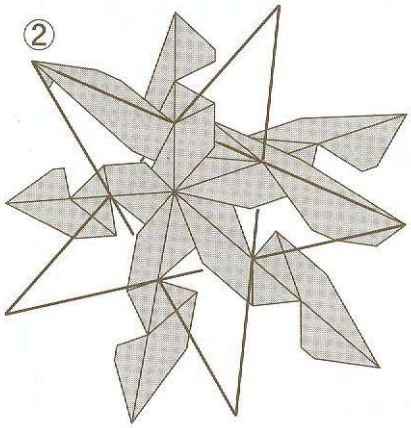
【 ASTERISK -1- 小星型十二面体 Small stellated dodecahedron 】

①



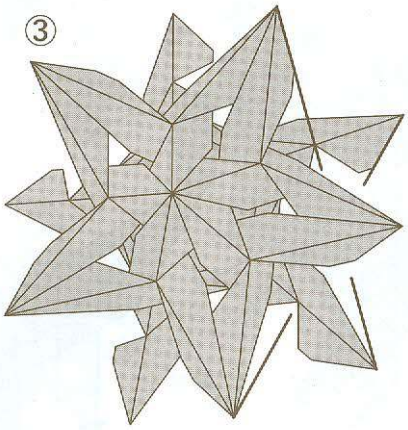
パーツを５つ組みます。

②



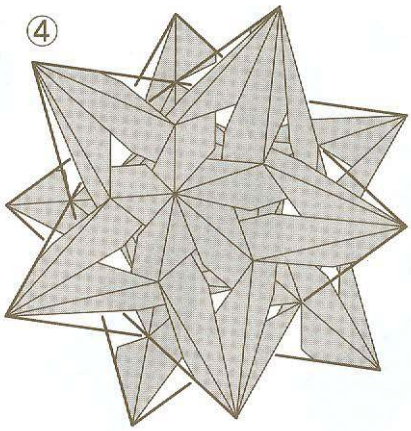
編むようにパーツを差し込み、
五芒星を作ります。

③



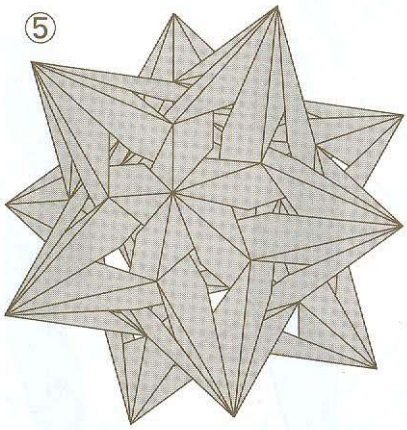
同様に五芒星を作ります。

④



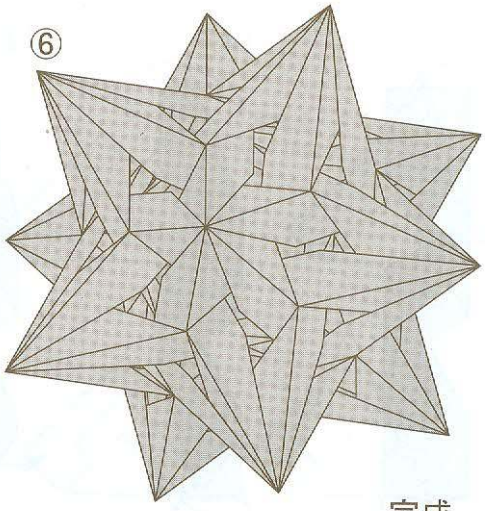
残りも繋いで五芒星を作ります。

⑤



裏側も同様に組みます。

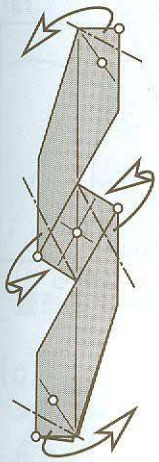
⑥



完成

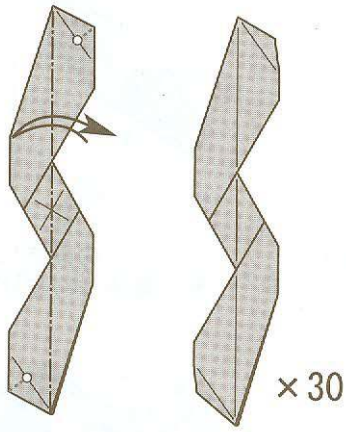
【 ASTERISK -2- 大星型十二面体 Great stellated dodecahedron 】

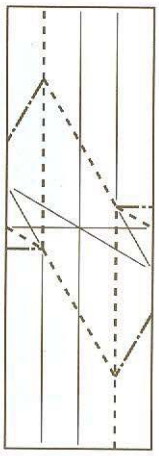
11a.



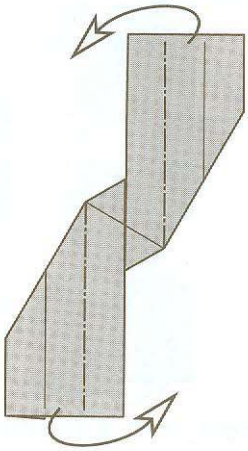
それぞれ半分の角度にします。

12a.

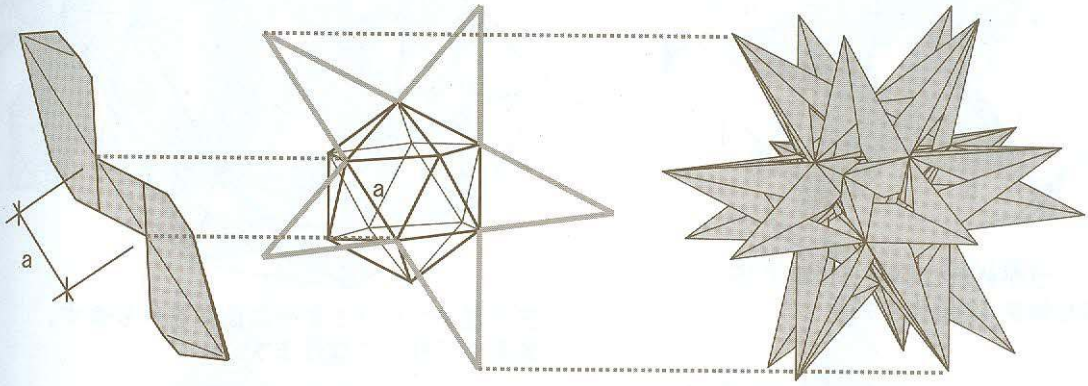




紙が厚い場合は
図の線で折ると
紙の重なりが少し
解消されます。



以降は 10. 11a. 12a と
同じです。

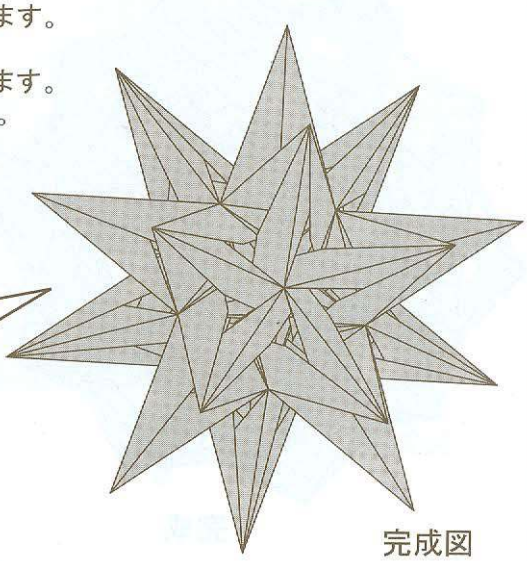


ユニットの中心部分を一辺 a として正二十面体を組みます。
組んでは外しを繰り返し、編むように作り進めます。
最後までポケットに腕を差し込まない方が綺麗に作れます。
ASTERISK シリーズの中でも特にに組みづらい構造です。
長辺が 15cm 以上で薄手の紙を使う事をお薦めします。

小星型十二面体と大星型十二面体の形が
イメージしづらい方は、以下のサイトを
PC でご覧になってみて下さい。
回転する立体の画像があります。

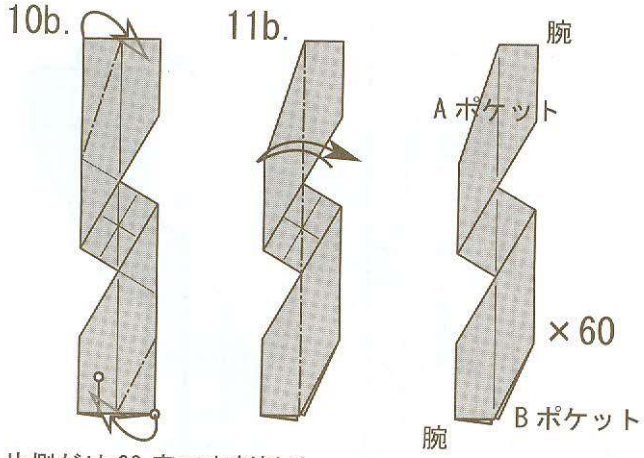
http://ja.wikipedia.org/wiki/小星型十二面体

http://ja.wikipedia.org/wiki/大星型十二面体

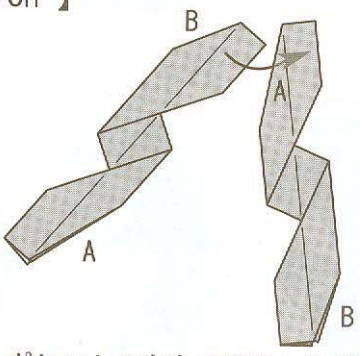


完成図

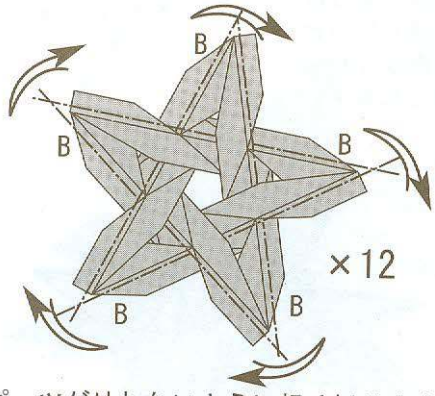
【 ASTERISK -3- 正十二面体 Regular dodecahedron 】



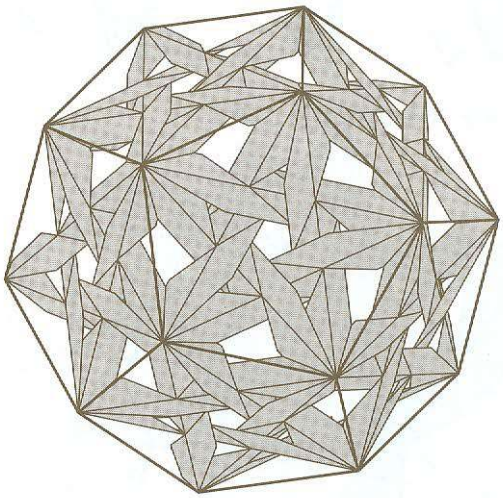
片側だけ 60 度で中割折り



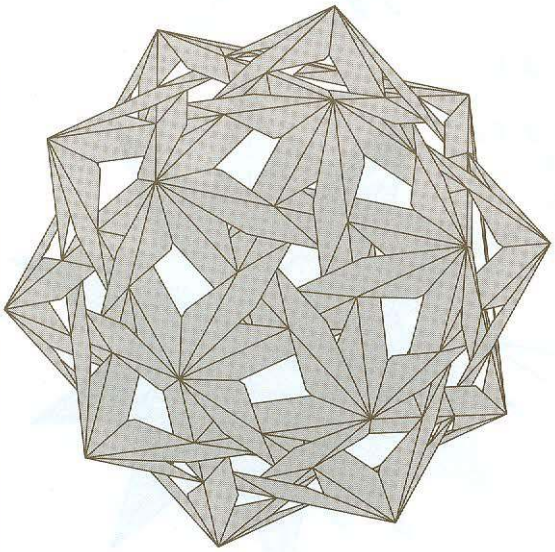
ポケットの向きに注意しながら
五芒星を作ります。



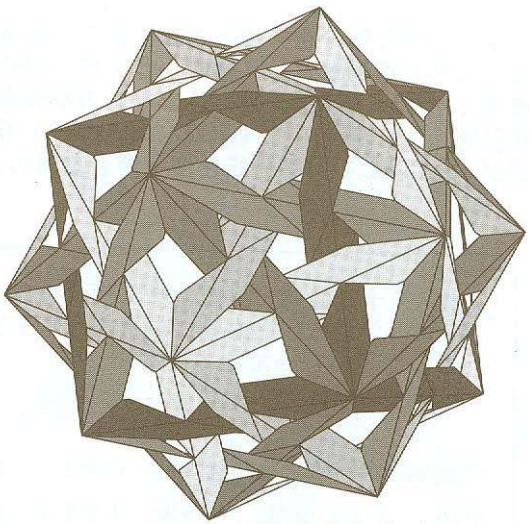
パーツが外れないように軽く折ります。
同じ物を 12 個作ります



五芒星をつなげて正十二面体を作ります。
裏側も同様につなげます。



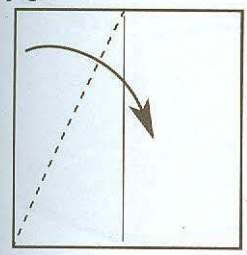
完成



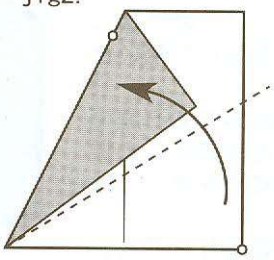
5 つの複合立方体 の配色
A color scheme like a Compound of 5 Cubes

【 ASTERISK -4- 辺を延長した菱形三十面体 - その 1-
Rhombic triacontahedron (extended edges type1) 】

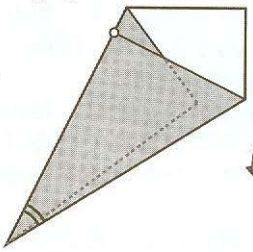
jig1.



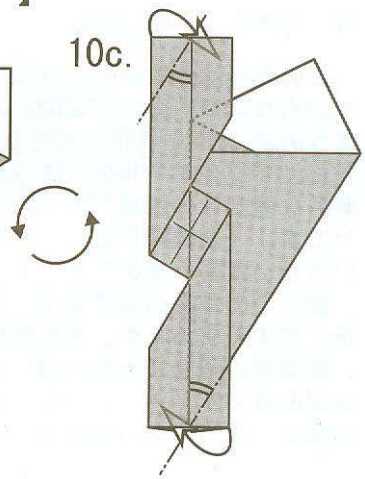
jig2.



jig3.

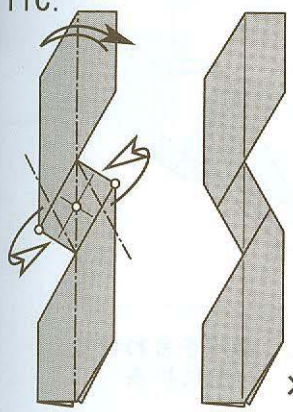


10c.

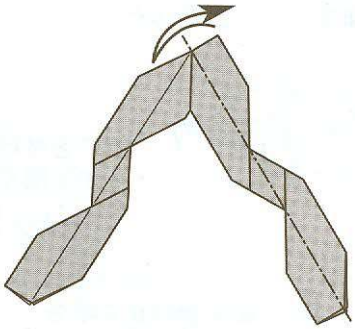


菱形三十面体の鋭角、63.43 度（26.57 度）の治具を作ります。

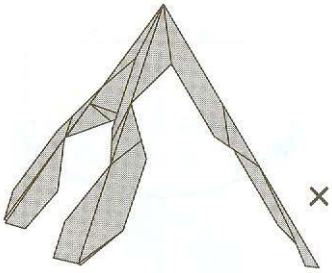
11c.



×60

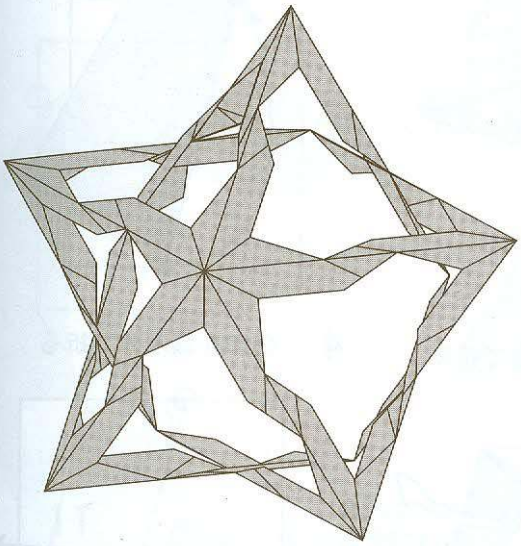


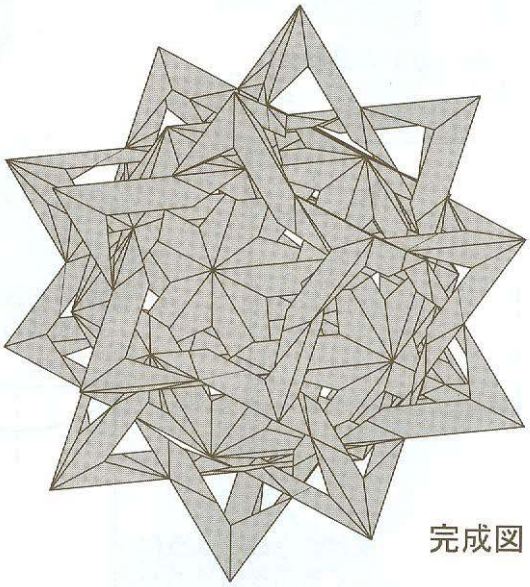
組んだら軽く折って
抜けないようにします。



×20

3 パーツをつなげた『山』を 20 個作ります。





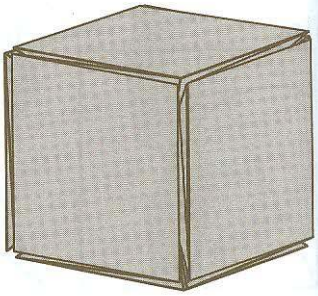
完成図

『山』の先に別の『山』の先を 5 個つなげます。
残り 15 個も同様につなげていきます。
『山』の頂点を結ぶと正十二面体になります。
内部の構造は菱形三十面体です。

その 2, その 3, その 4 はいつか図にします ...
たぶん ... きっと .....

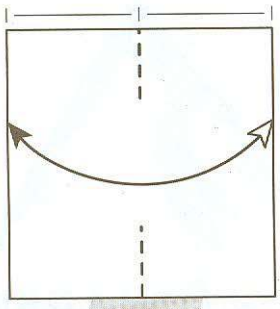
Zero Cube ～ 吾唯知不足 By Kasumi

作／2010.2　霞誠志

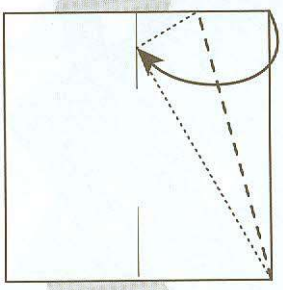


この作品は６枚組みのユニット作品です。組み上げた時に接しているユニット同士に隙間がありません。隙間（空間）が無いと言うのが「ZERO-CUBE」の名の由来です。
また、サブタイトルの「吾唯知不足」とは、枯山水の方丈石庭で有名な龍安寺の蹲踞(つくばい)に刻まれている「吾唯知足」の捩りです。【吾唯知足とは：われ、ただ足るを知る<欲を出してはいけないと言う戒めです>】
実はこの作品の展開図は正確には正方形の中に収まりません。折りやすくするため、中心線の傾きを近似値の15度していますが、展開図の辺を正方形の縁に正確に合わせる為には、約16度の傾きが必要です・・・しかし、そうすると一部のカドの先端がほんの僅か、正方形からはみ出てしまいます・・・吾唯知不足。

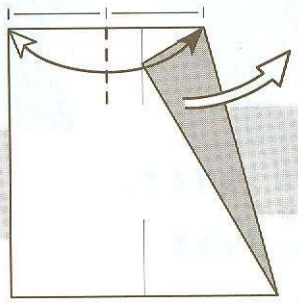
1. 図の位置に折筋を付ける



2. 折筋にカドを合わせて折る

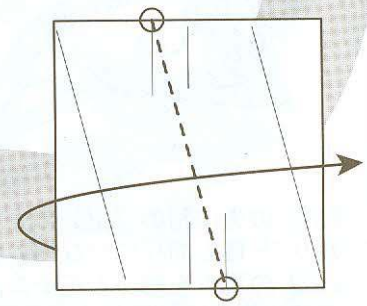


3. カドを合わせて折筋を付ける

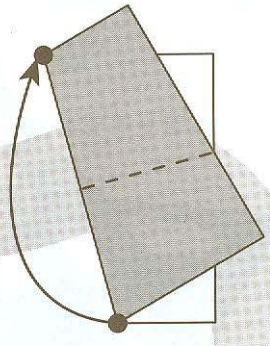


反対側も同じようにして折筋を付けたら全て開く

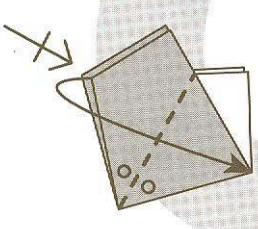
4. ○印を結ぶ線で折る



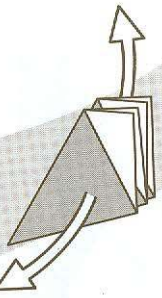
5. ●印を合わせて半分に折る



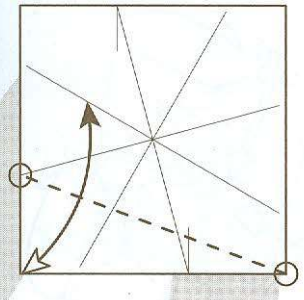
6. 縁を合わせて半分に折る
反対側も同じ



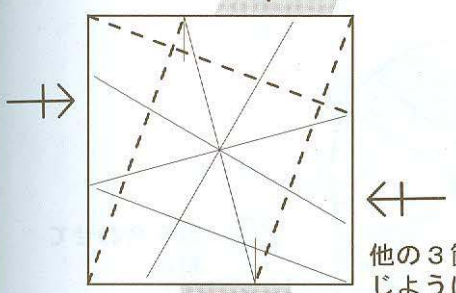
7. 折筋を付けたら全て開く



8. ○印を結ぶ線で折筋を付ける

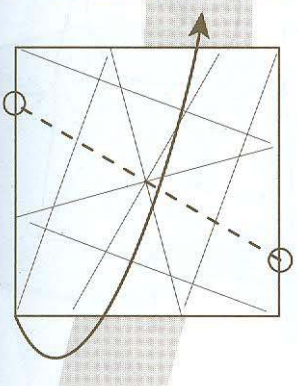


9.

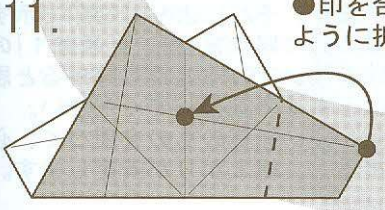


他の３箇所も同じようにして折筋を付ける

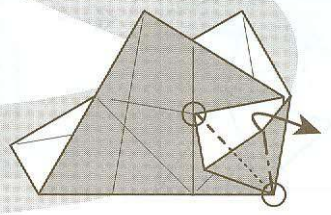
10. ○印を結ぶ線で折る



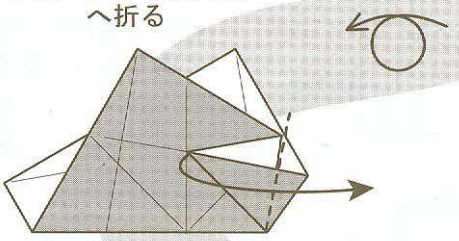
11. ●印を合わせるように折る



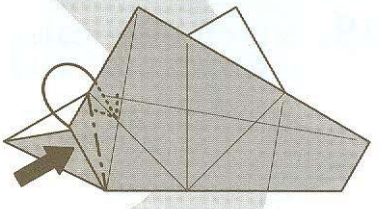
12. ○印を結ぶ線を谷折りしながらずらすように折る



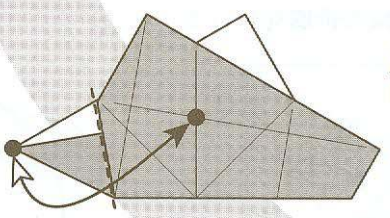
13. カドを反対側へ折る



14. 小さいカドを中割折りするようにして内側に押し込む

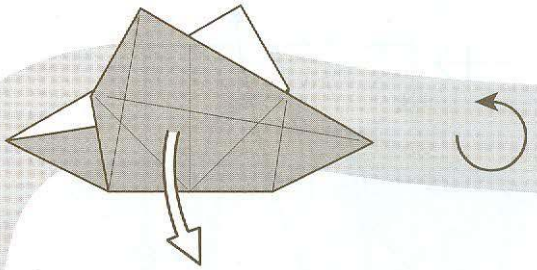


15. ●印を合わせるようにして折筋を付ける

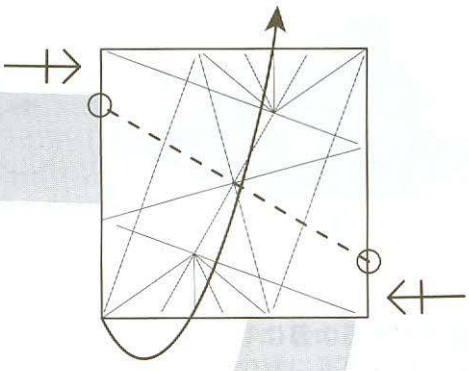


反対側も[11～15]と同じように折る

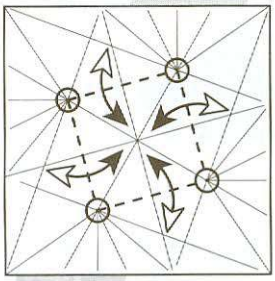
16. 折筋を付けたら全て開く



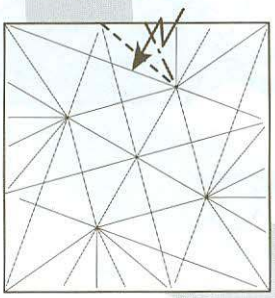
17. 他の２箇所も［10～16］と同じようにして折筋を付ける



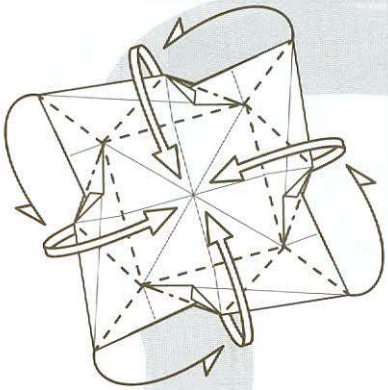
18. ○印を結ぶ線で折筋を付ける

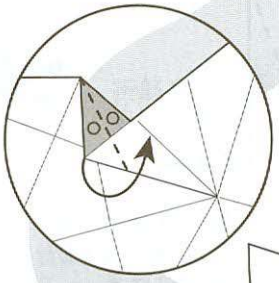


19. 付いている折筋で段折り（ここからは立体的な形状になります）

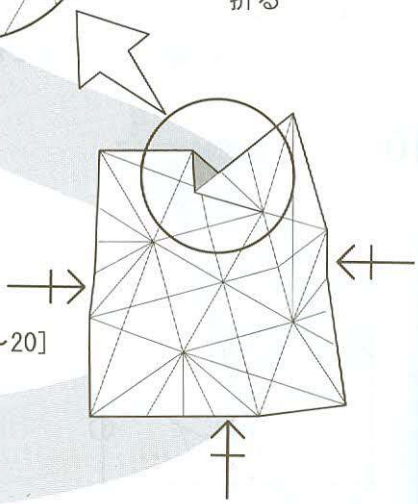


21. 四角錐になるようにまとめる



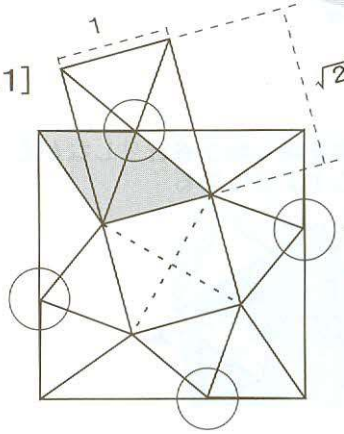


20. 縁を合わせて折る



他の３箇所も［19～20］と同じように折る

［図.1］



＊・・・supplement・・・＊

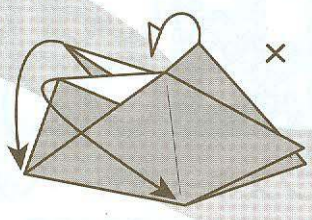
①誤差について：本来この展開図は正方形に収まりません。今回は、全てのカドを用紙内部に収める為、中心線の傾きを調整しています。それにより、○印で示す４ヶ所のカドが逆に用紙の縁に届きません（［図. １］の比率を基に実際に展開図を描いてみると良く分かると思います）・・・折る時はうまく微調整してください。

②用紙について：少し硬い紙質のものを使って、必要な折筋だけを付けて折ると、組上がりが安定します。

≪組み方≫

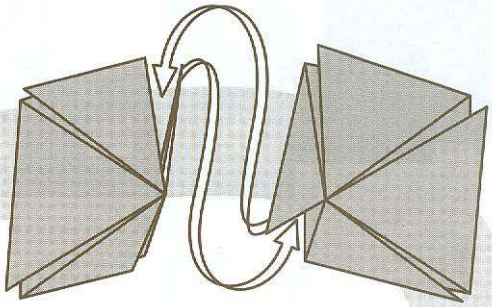
22. 4つのカドを下に下ろして形を整える

同じものを６個作る

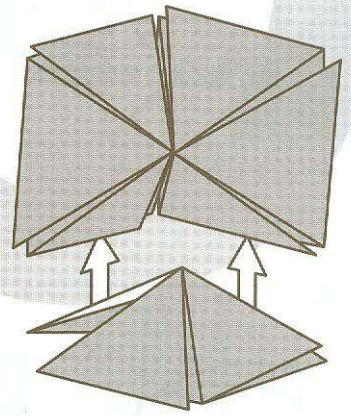


× ６個

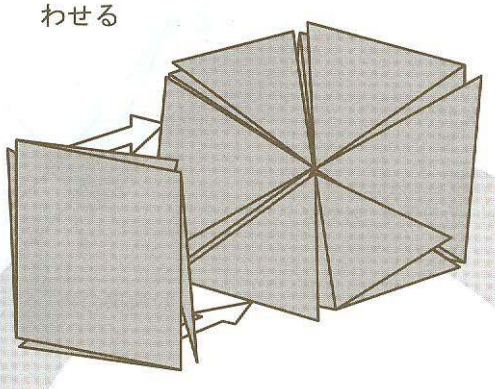
23. カドを交差させるように隙間に差し込んで組み合わせる



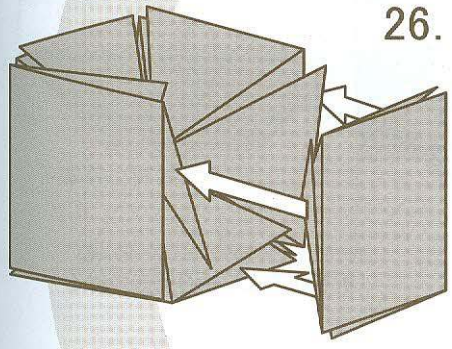
24. ３つ目のパーツはカドを２箇所差し込んで組み合わせる



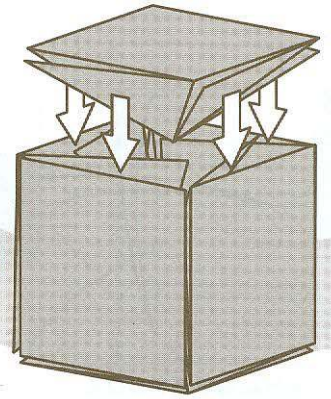
25. ４つ目のパーツもカドを２箇所差し込んで組み合わせる



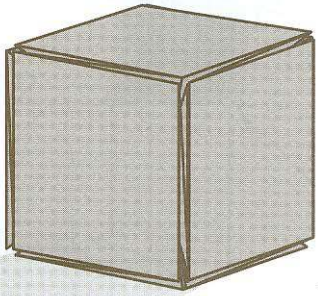
26. ５つ目のパーツはカドを３箇所差し込んで組み合わせる

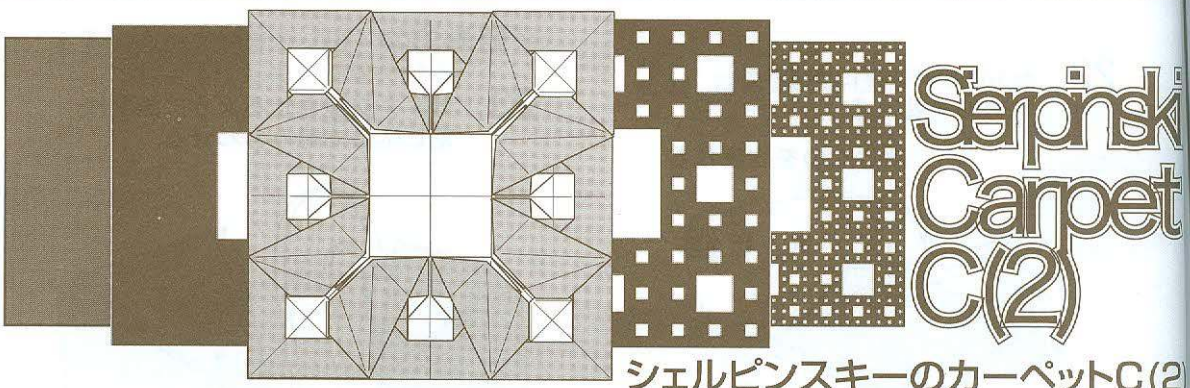


27. ６つ目のパーツは４箇所のカドを交差させて捻りながら差し込んでまとめる



28. 完成

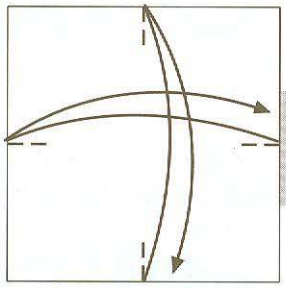




シェルピンスキーのカーペットC(2)

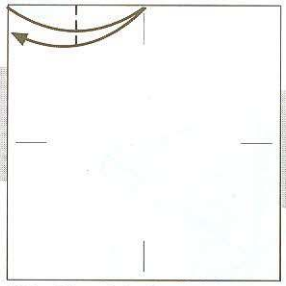
森末　圭 2012/01/28

1



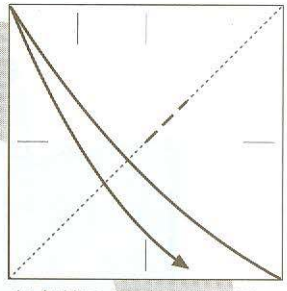
紙の端に折り筋をつける

2



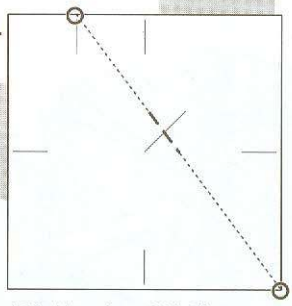
紙の端に折り筋をつける

3



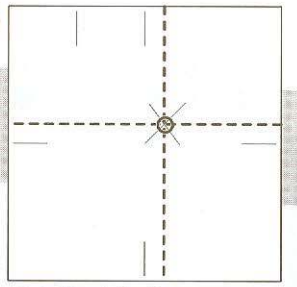
対角線の折り筋をつける

4



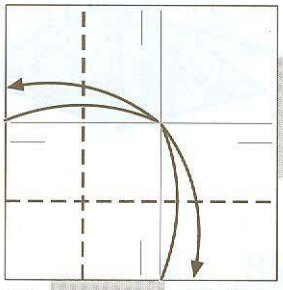
折り筋の上に折り筋をつける

5



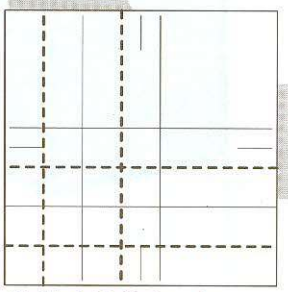
○を通る折り筋をつける

6



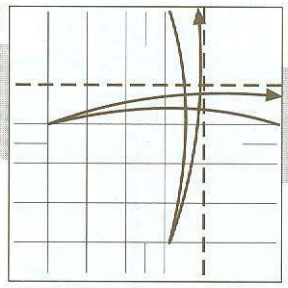
折り筋に合わせて折り筋をつける

7



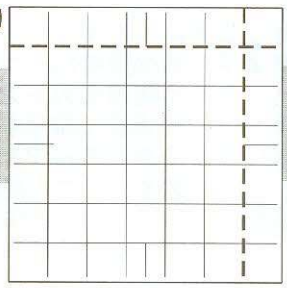
半分に折り筋をつける

8

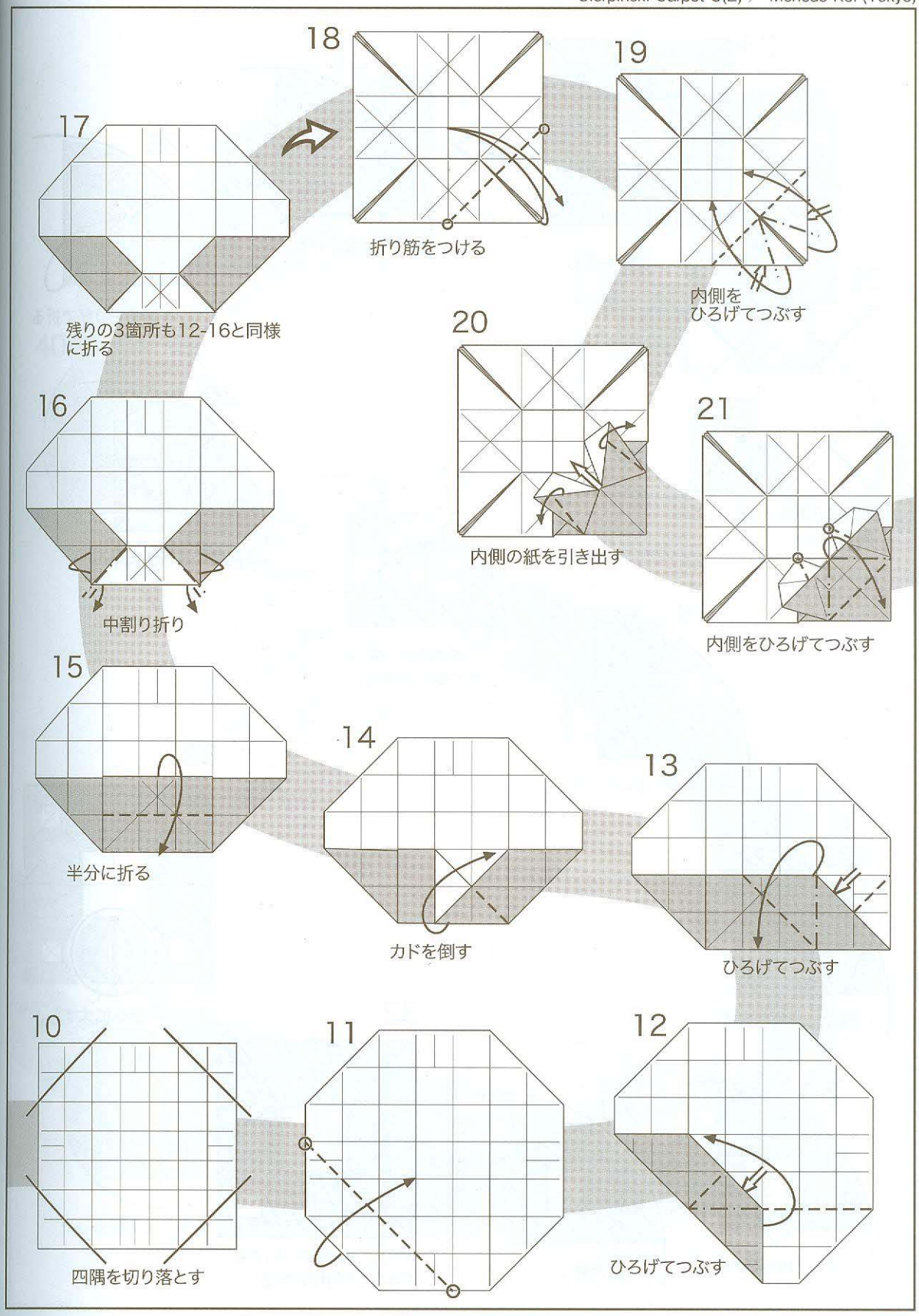


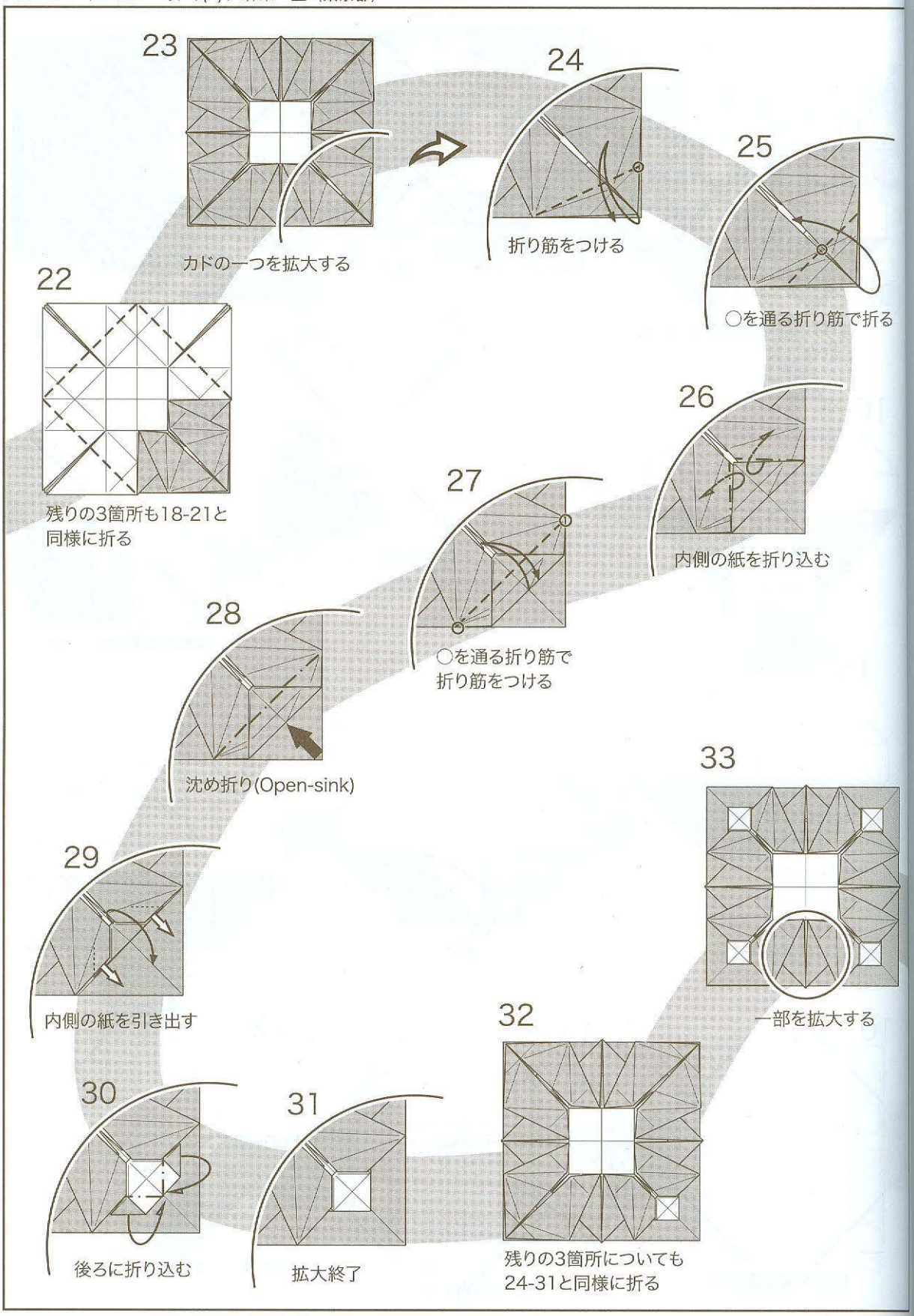
半分に折り筋をつける

9

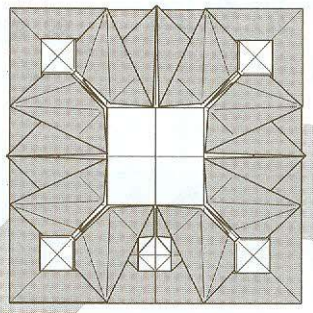


半分に折り筋をつける


18
19
17
折り筋をつける
内側を
ひろげてつぶす
残りの3箇所も12-16と同様
に折る
20
16
21
内側の紙を引き出す
中割り折り
内側をひろげてつぶす
15
14
13
半分に折る
カドを倒す
ひろげてつぶす
10
11
12
四隅を切り落とす
ひろげてつぶす

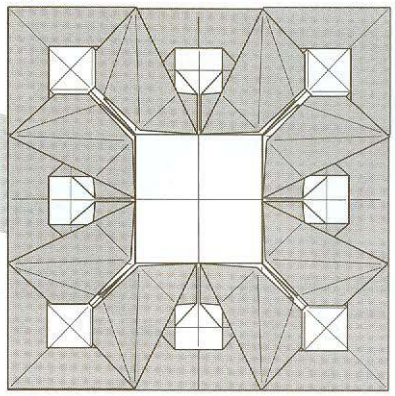

23
カドの一つを拡大する
24
折り筋をつける
25
○を通る折り筋で折る
22
残りの3箇所も18-21と
同様に折る
26
内側の紙を折り込む
27
○を通る折り筋で
折り筋をつける
28
沈め折り(Open-sink)
33
一部を拡大する
29
内側の紙を引き出す
32
残りの3箇所についても
24-31と同様に折る
30
後ろに折り込む
31
拡大終了

41



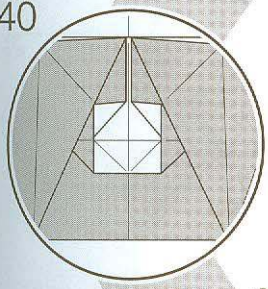
残りの3箇所も34-40と同様に折る

42



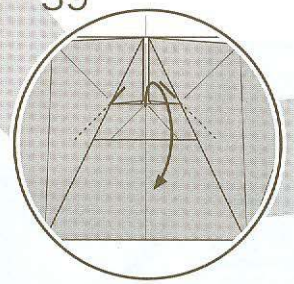
完成

40



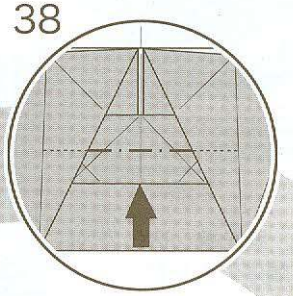
拡大終了

39



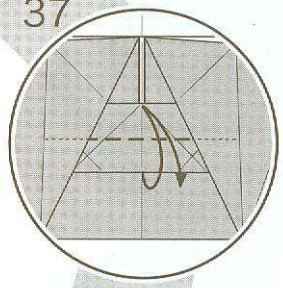
内側の紙を引き出す

38



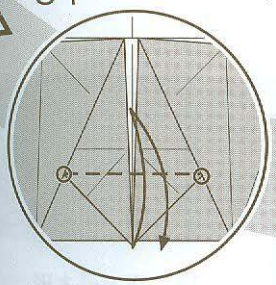
沈め折り(Closed-sink)

37



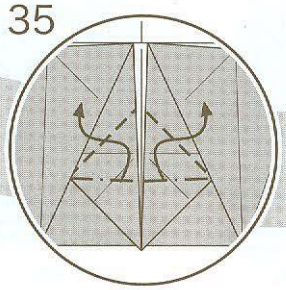
半分に折り筋をつける

34



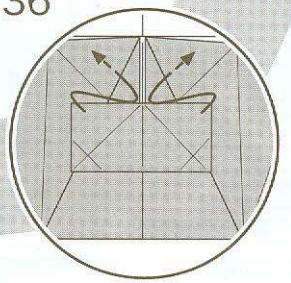
○を通る折り筋をつける

35



内側をひろげてつぶす

36

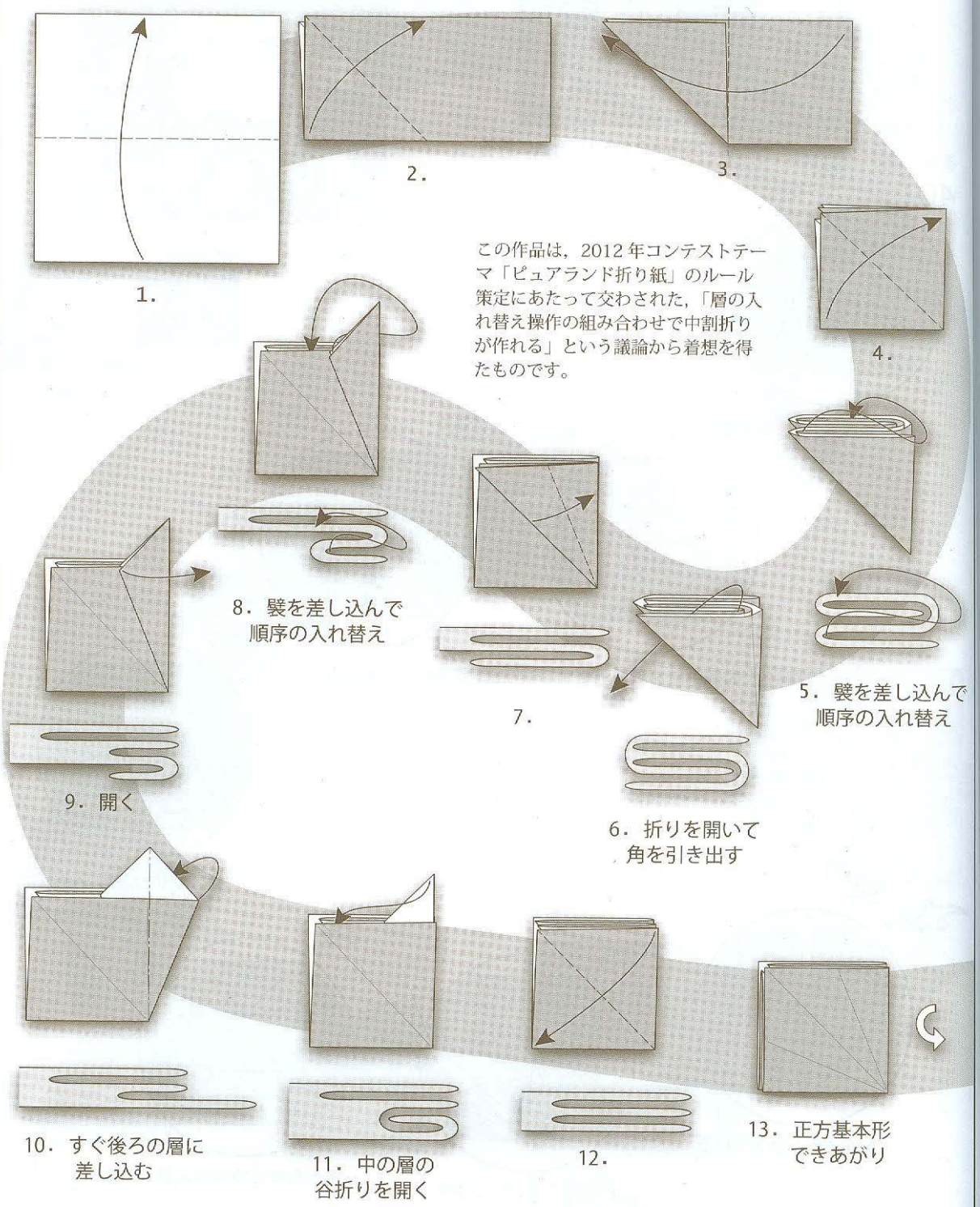


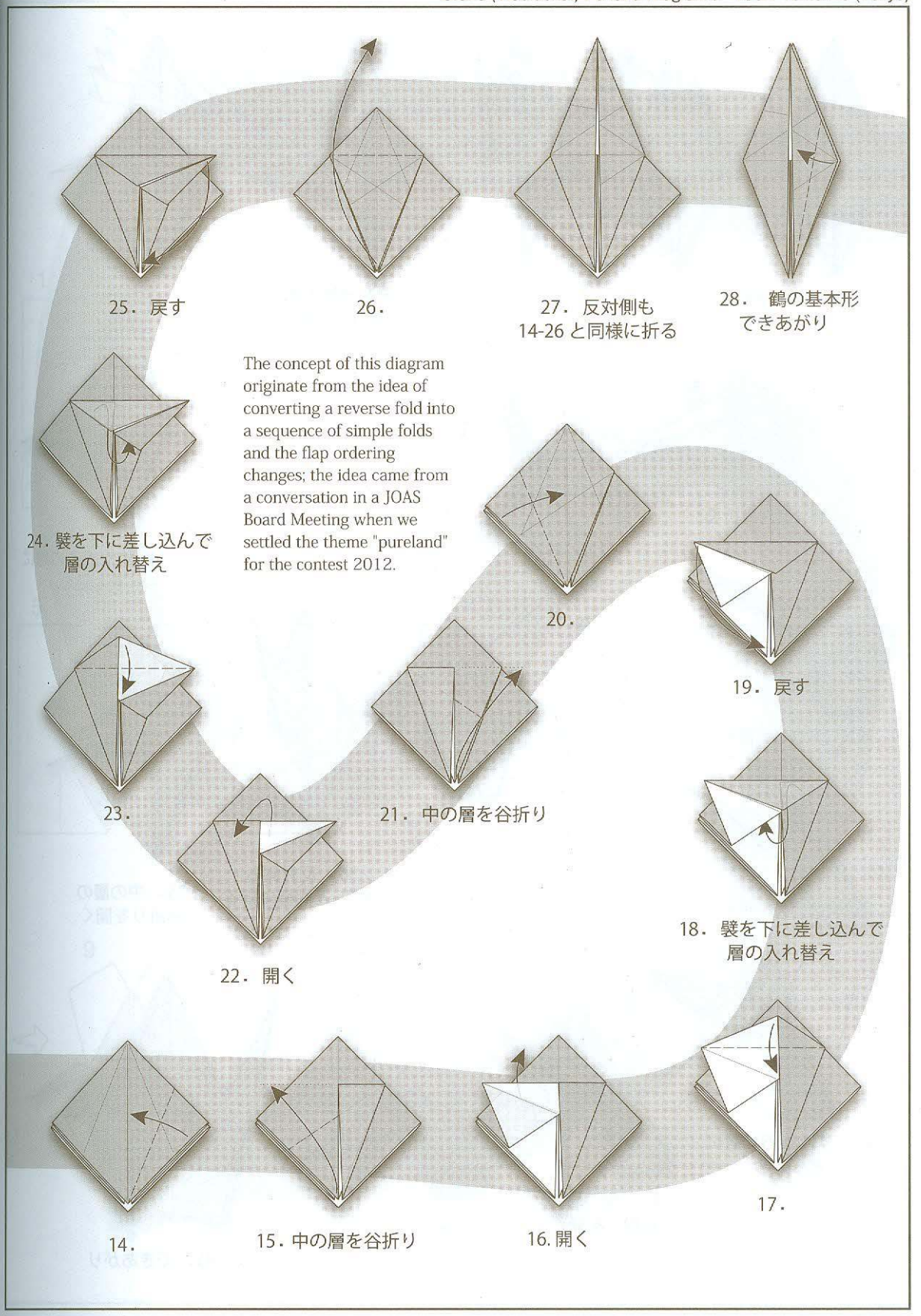
カドを後ろの隙間に差し込む

鶴（伝承）ピュアランド折り図

Crane (Traditional) Purland Diagram

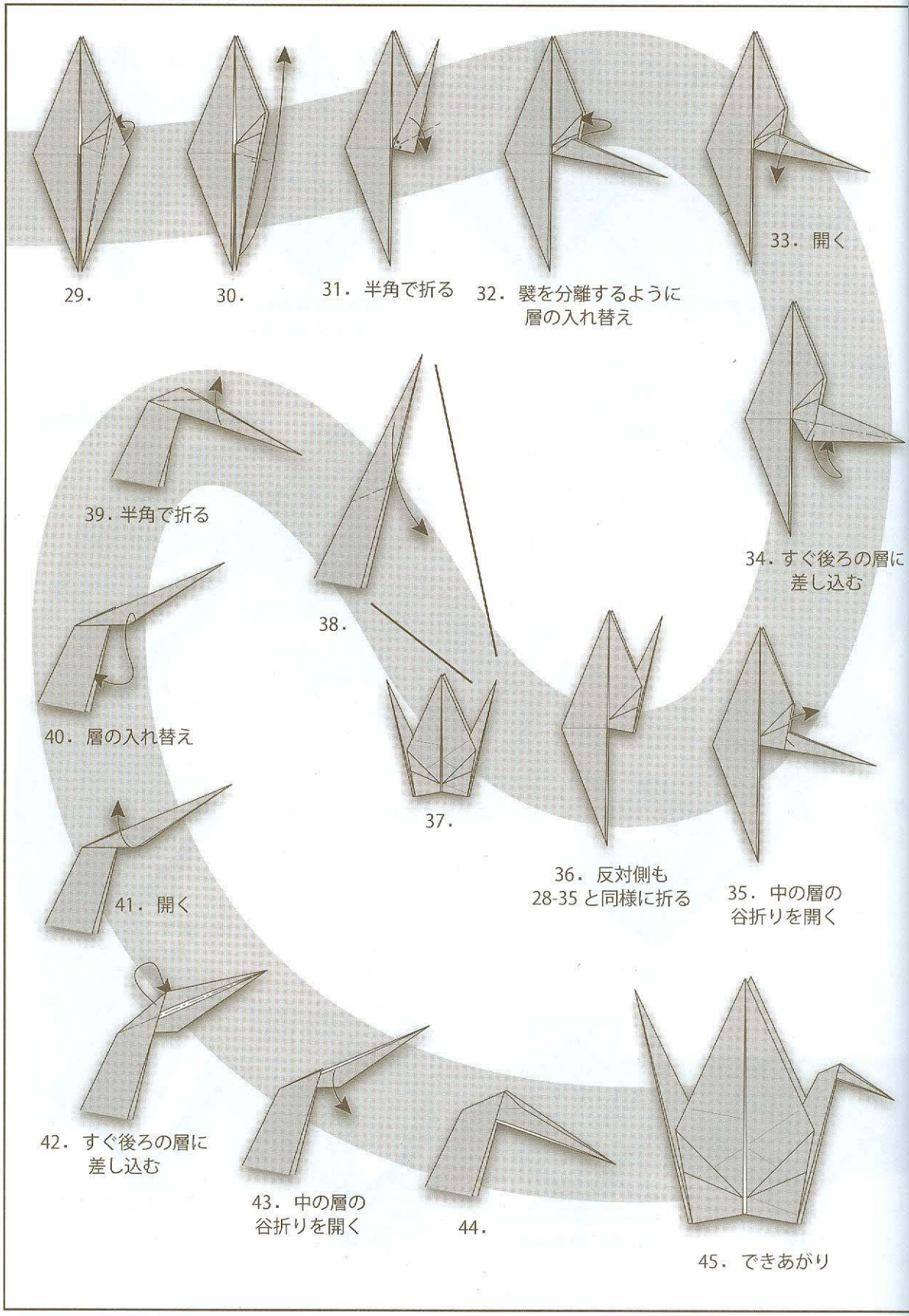
舘 知宏
Tomohiro Tachi

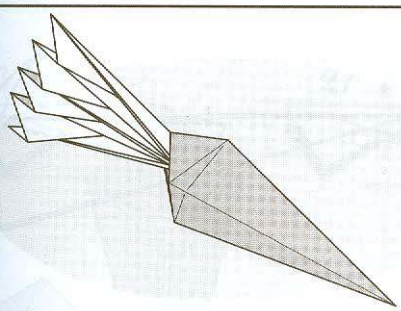




The concept of this diagram originate from the idea of converting a reverse fold into a sequence of simple folds and the flap ordering changes; the idea came from a conversation in a JOAS Board Meeting when we settled the theme "pureland" for the contest 2012.

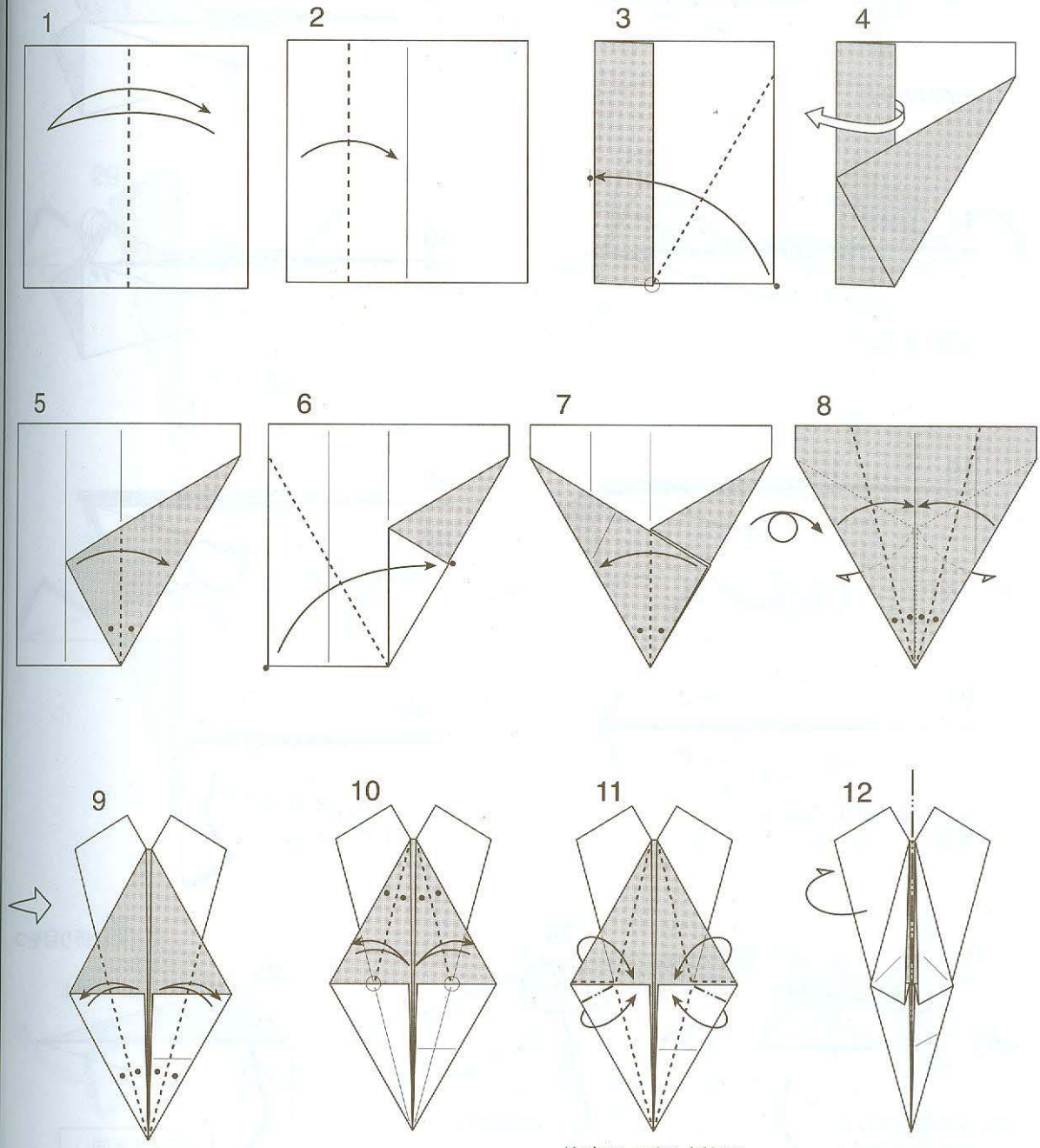
鶴（伝承）ピュアランド折り図／舘　知宏（東京都）





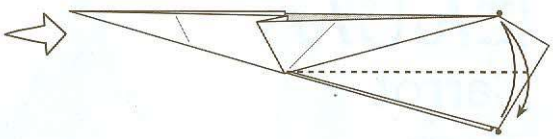
にんじん
Carrot

前川淳
MAEKAWA Jun

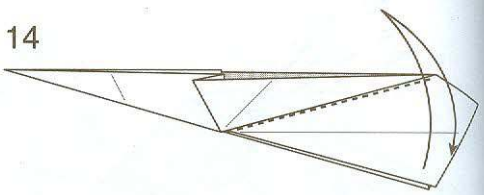


注意！：つまみ折りの
ひだは下向き。

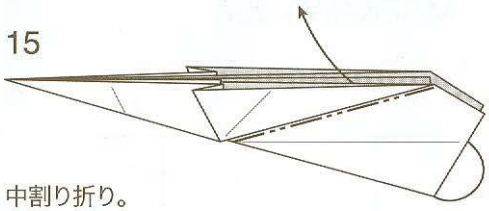
13



14

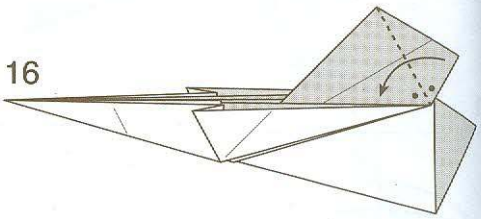


15

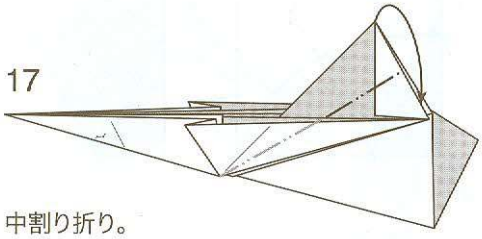


中割り折り。

16

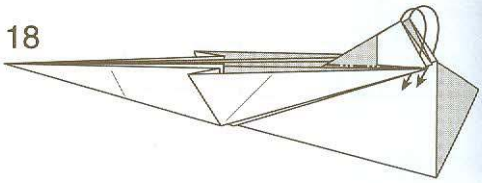


17



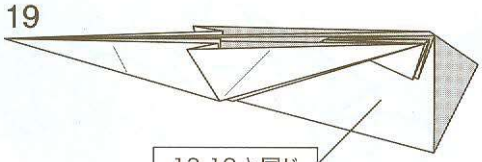
中割り折り。

18



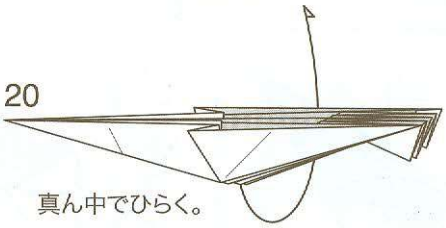
中割り折り。

19



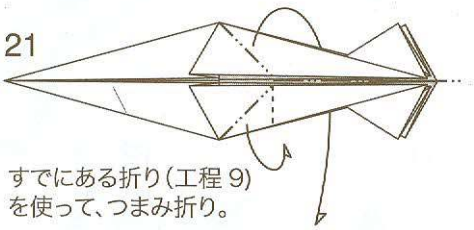
13-18 と同じ

20



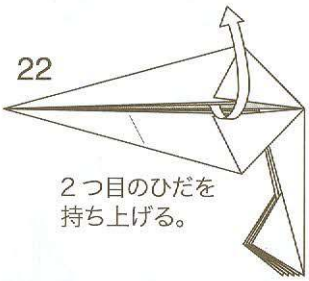
真ん中でひらく。

21



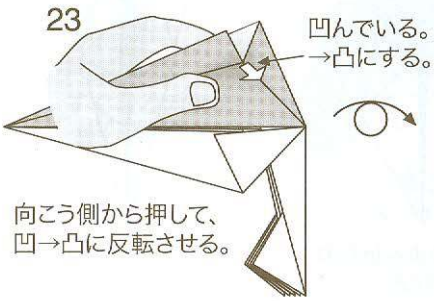
すでにある折り（工程 9）
を使って、つまみ折り。

22



２つ目のひだを
持ち上げる。

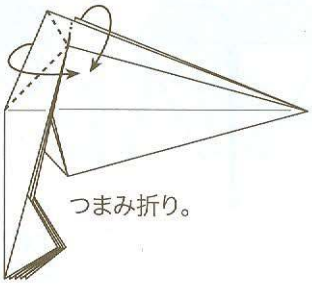
23



凹んでいる。
→凸にする。

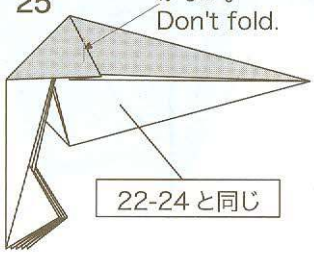
向こう側から押して、
凹→凸に反転させる。

24



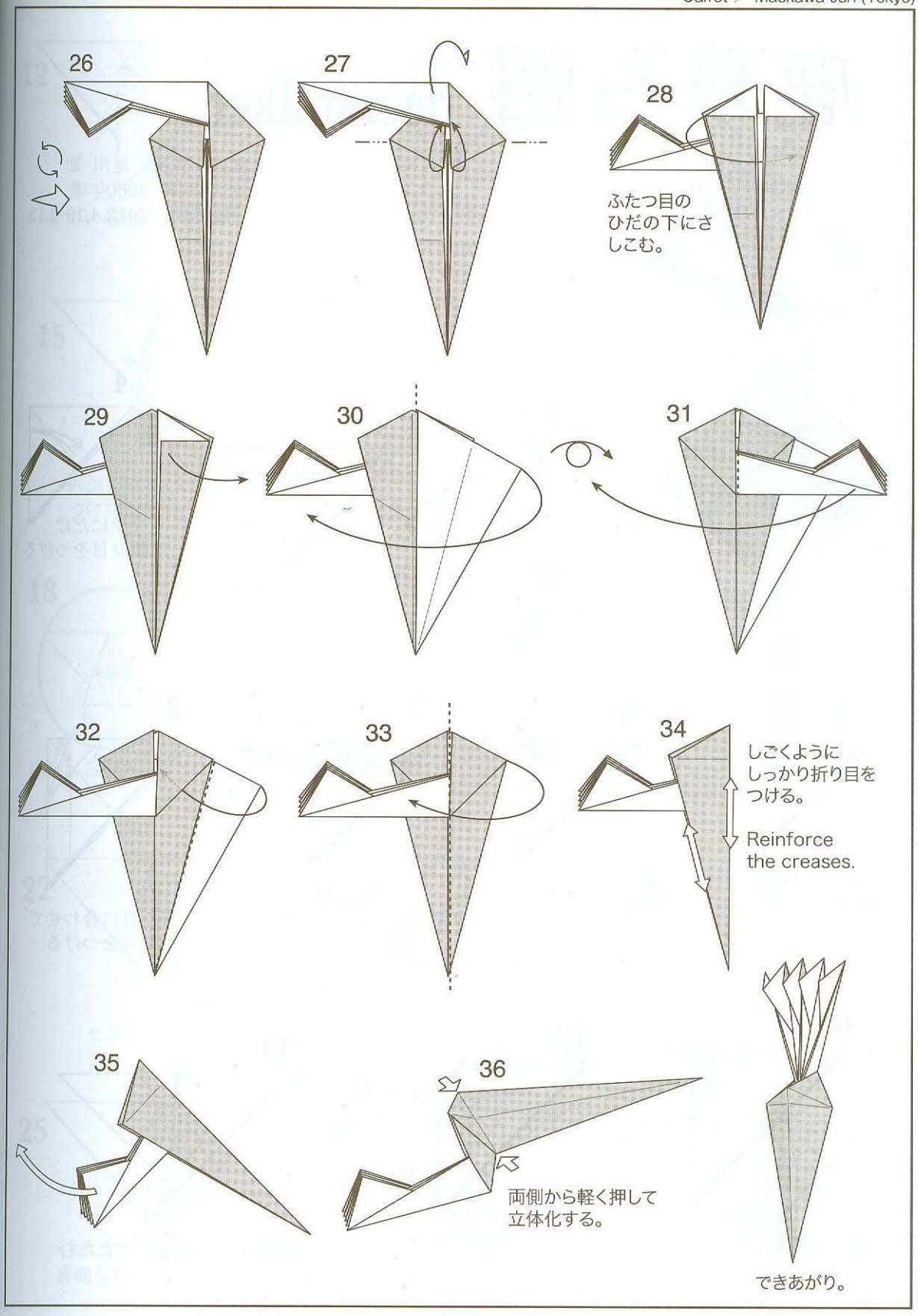
つまみ折り。

25



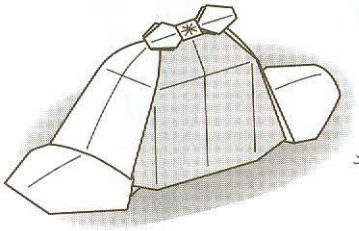
ここには折り目をつけない。
Don't fold.

22-24 と同じ


26
27
28
ふたつ目の
ひだの下にさ
しこむ。
29
30
31
32
33
34
しごくように
しっかり折り目を
つける。
Reinforce
the creases.
35
36
両側から軽く押して
立体化する。
できあがり。

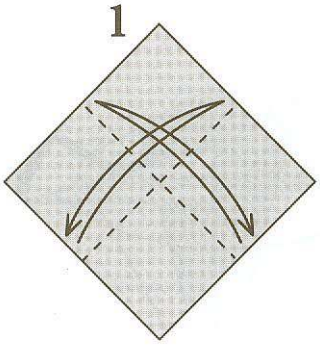
鹿撃ち帽 deerstalker

創作・作図　尾川 知
創作時期　2000年頃
作図期間　2012.4.19-6.12

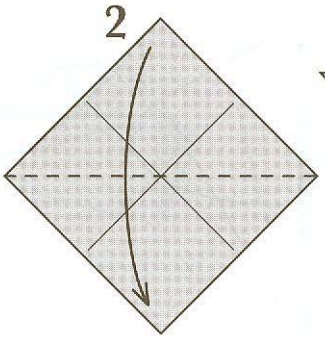


高名な私立探偵のトレードマークをモチーフとしたものです。
折紙探偵がかぶるのかもしれません。

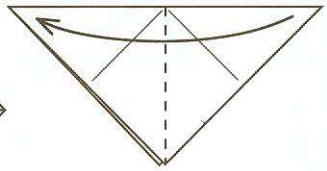
1



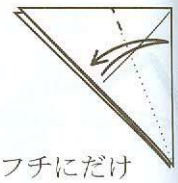
2



3

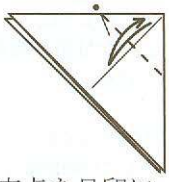


4



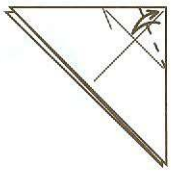
フチにだけ
折り目をつける

5



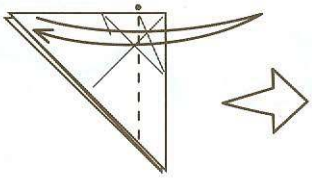
交点を目印に
折り目をつける

6



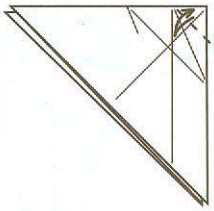
折り目に合わせて
折り目をつける

7



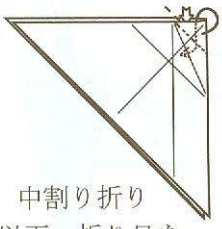
交点を目印に
折り目をつける
裏側も同じように

8



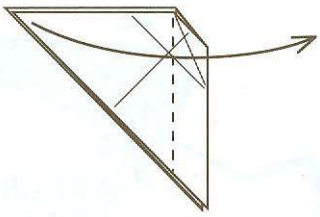
折り目に合わせて
折り目をつける

9



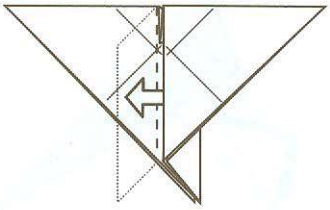
中割り折り
（以下、折り目を
適宜省略して示す）

10



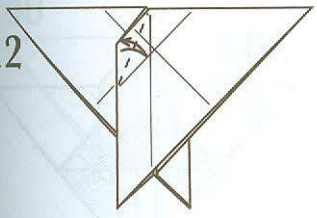
ついている折り目で折る

11



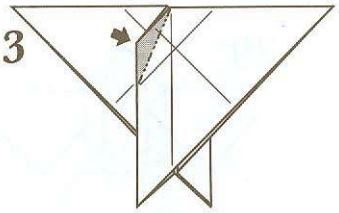
内側から引き出してたたむ

12



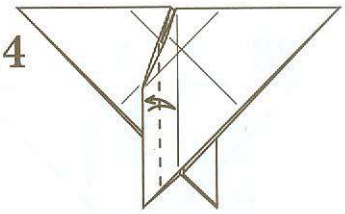
ついている折り目をつけなおす

13



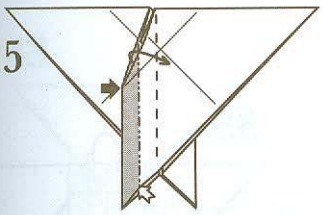
しずめ折り (Open sink)

14



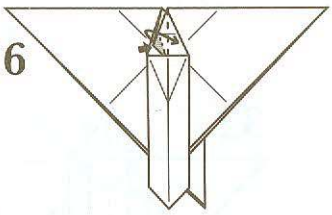
フチを折り目に合わせて
折り目をつける

15



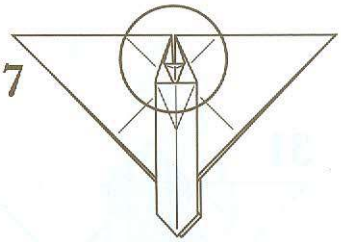
内側をひろげて
つけた折り目でたたむ

16



つぶしてたたむ
裏側も12〜16と同様に折る

17

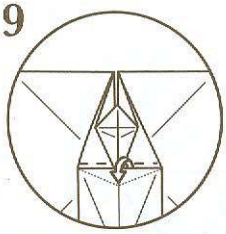


次の図から円の中を
拡大して示す

18

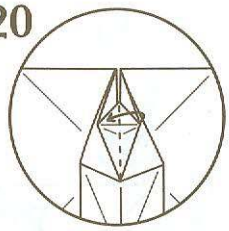
内側から引き出す

19



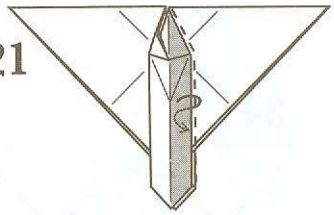
内側から引き出す

20



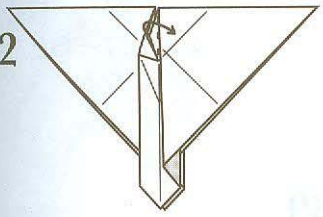
ヒダを一枚めくる
次の図から再び全体を示す

21



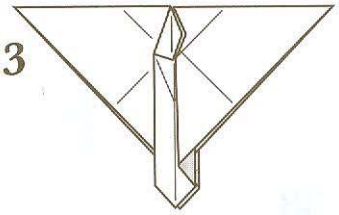
色の濃い部分を
しずめ折り

22



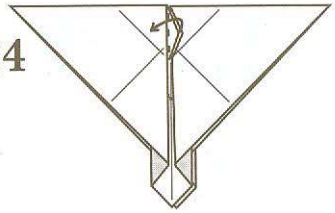
ヒダを1枚めくる

23



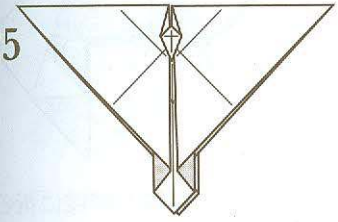
左側も21と同様に折る

24



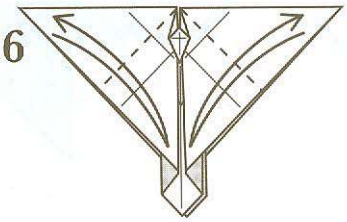
ヒダを1枚めくる

25



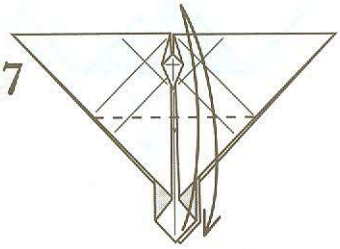
裏側も19〜24と同様に折る

26



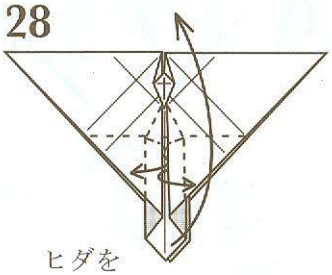
折り目をつける

27



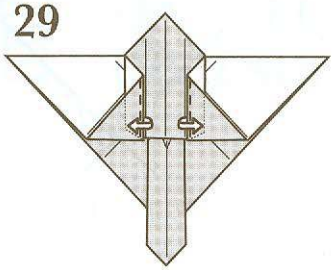
折り目をつける

28



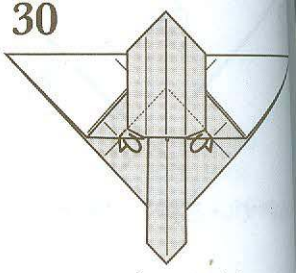
ヒダを
めくりながら折る

29



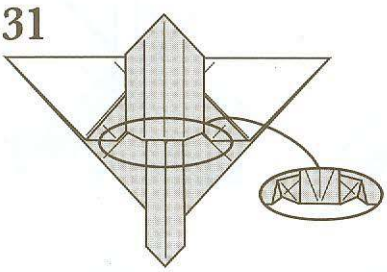
内側から引き出して
たたむ

30



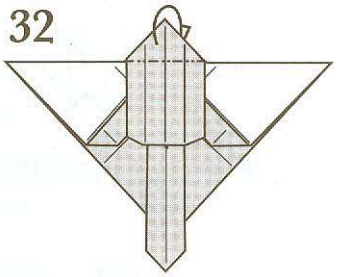
ヒダの下で折る

31

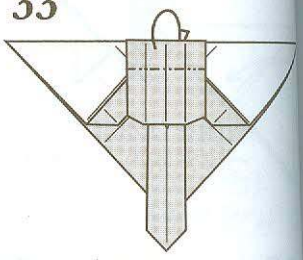


裏側から見たところ

32

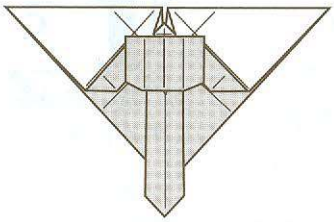


33



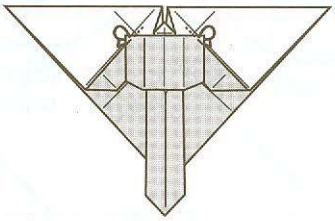
折る目安は
次の図を参照

34

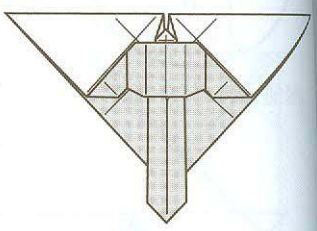


真ん中にある三角形の
底辺とそろうように

35

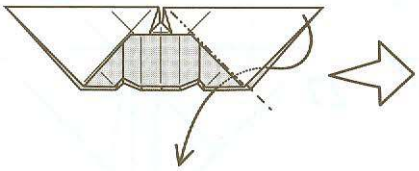


36

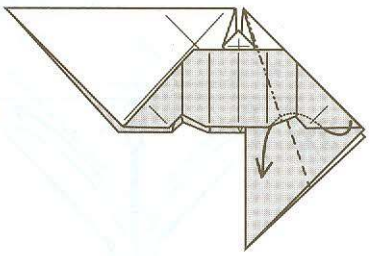


裏側も27〜35と
同様に折る

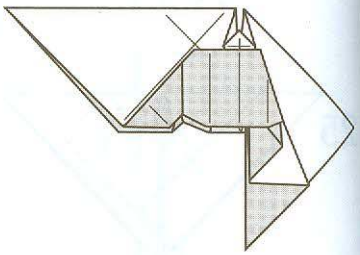
37



38

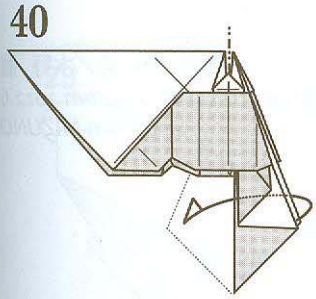


39



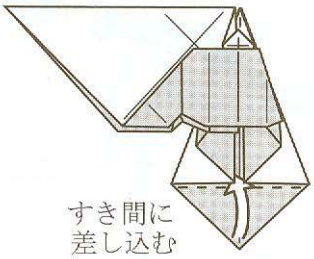
裏側も同様に折る

40



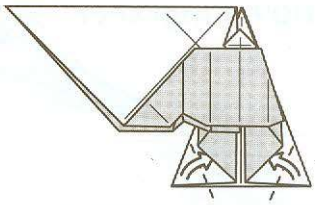
上から二つ目の
すき間から折る

41



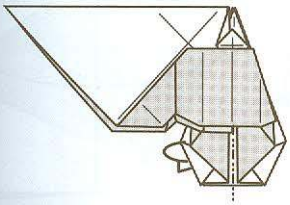
すき間に
差し込む

42

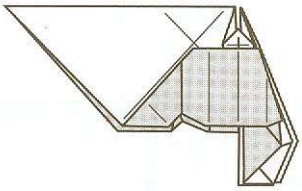


すき間に差し込む

43

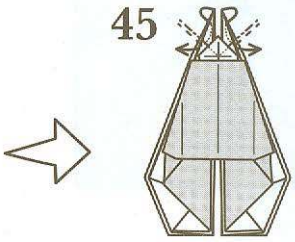


44



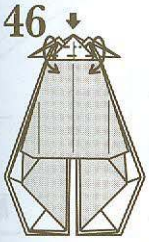
左側も37〜43と同様に折る

45



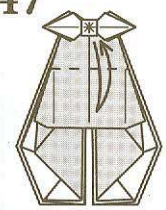
上から3つ目のすきまで
中割り折り

46

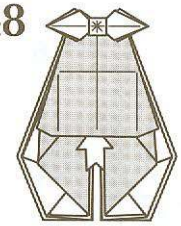


中央のカドを
ひろげてつぶす

47



48



内側をひろげて
全体を立体にする

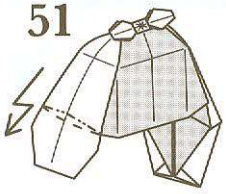
49

頭頂部を平らに
つぶす

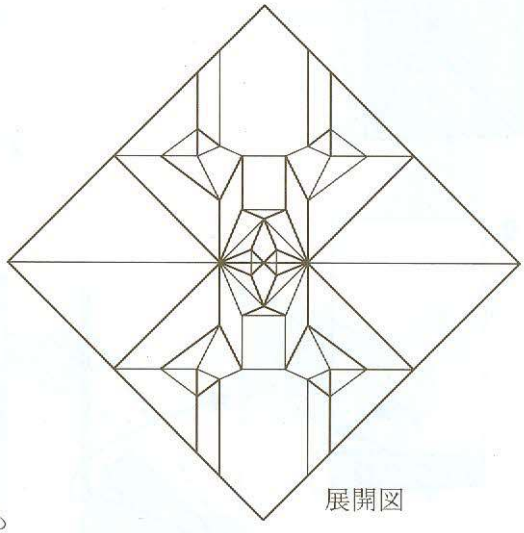
50

リボンの先を折る

51

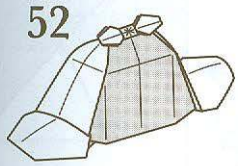


つばの部分を
立体的に段折りする
反対側も同じ

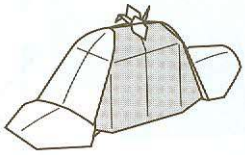


展開図

52

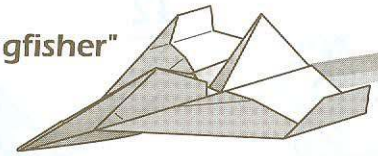


できあがり

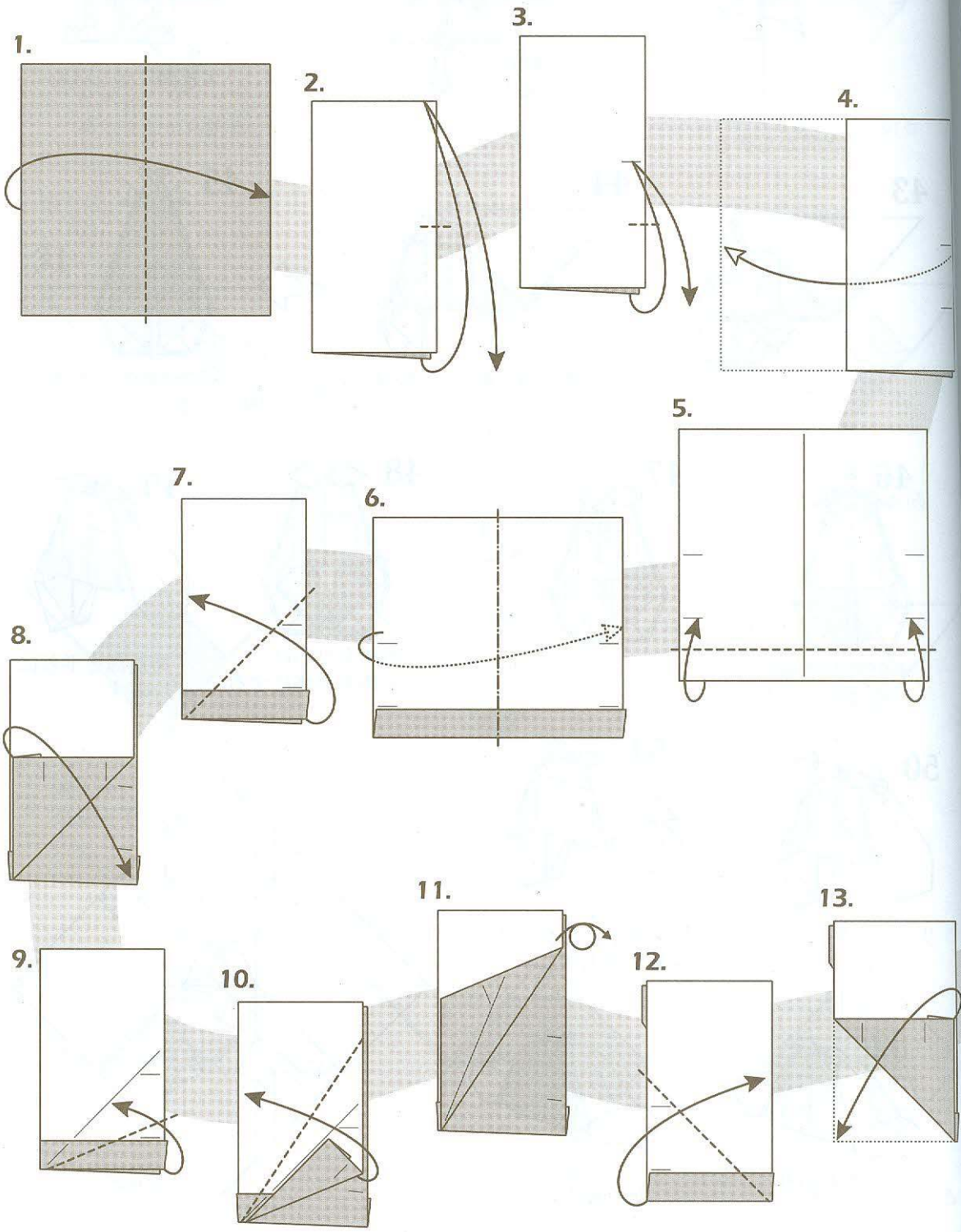


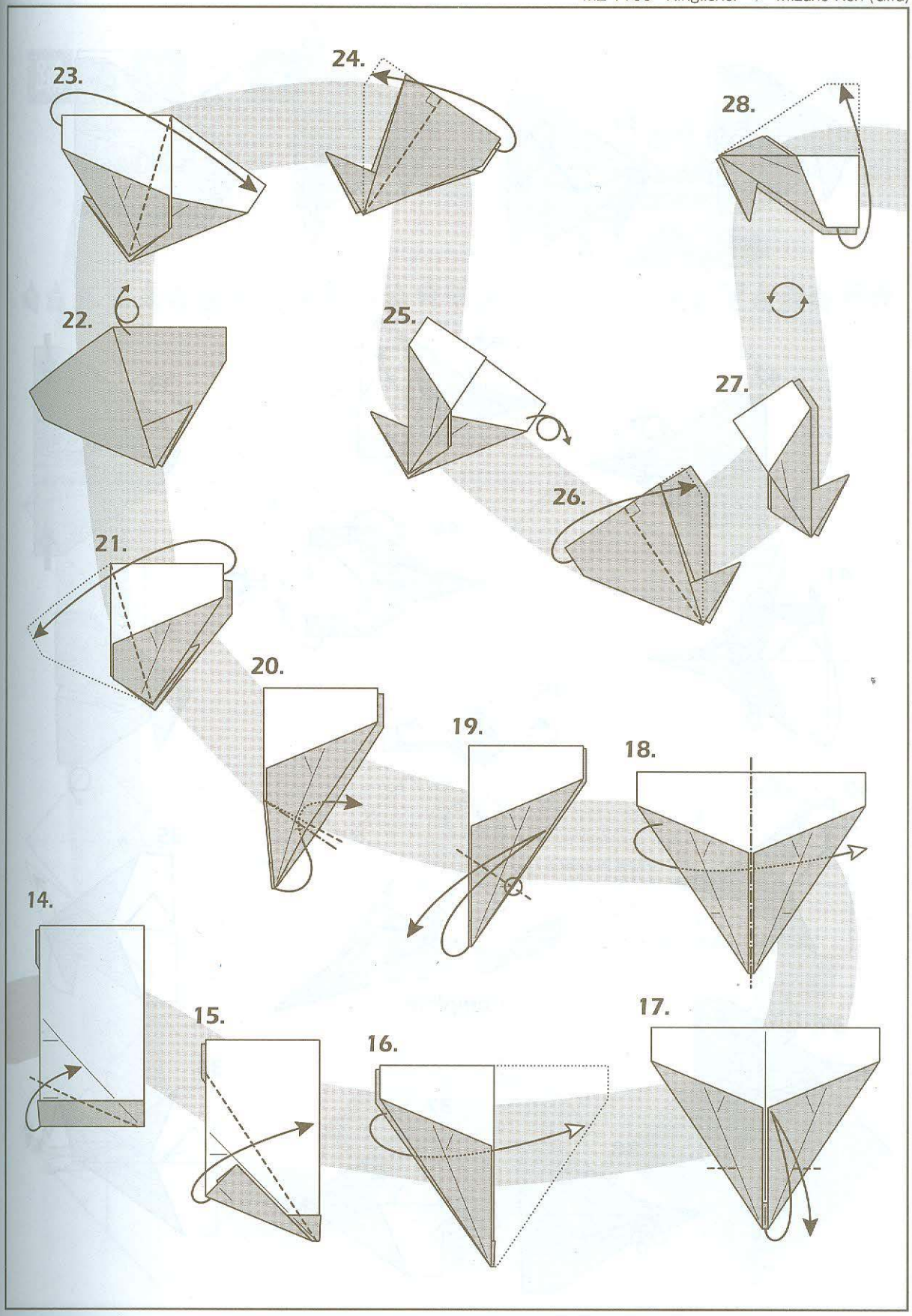
リボン部分を
折り鶴型にすることも
できます

折紙飛行機
MZ-1109 "Kingfisher"

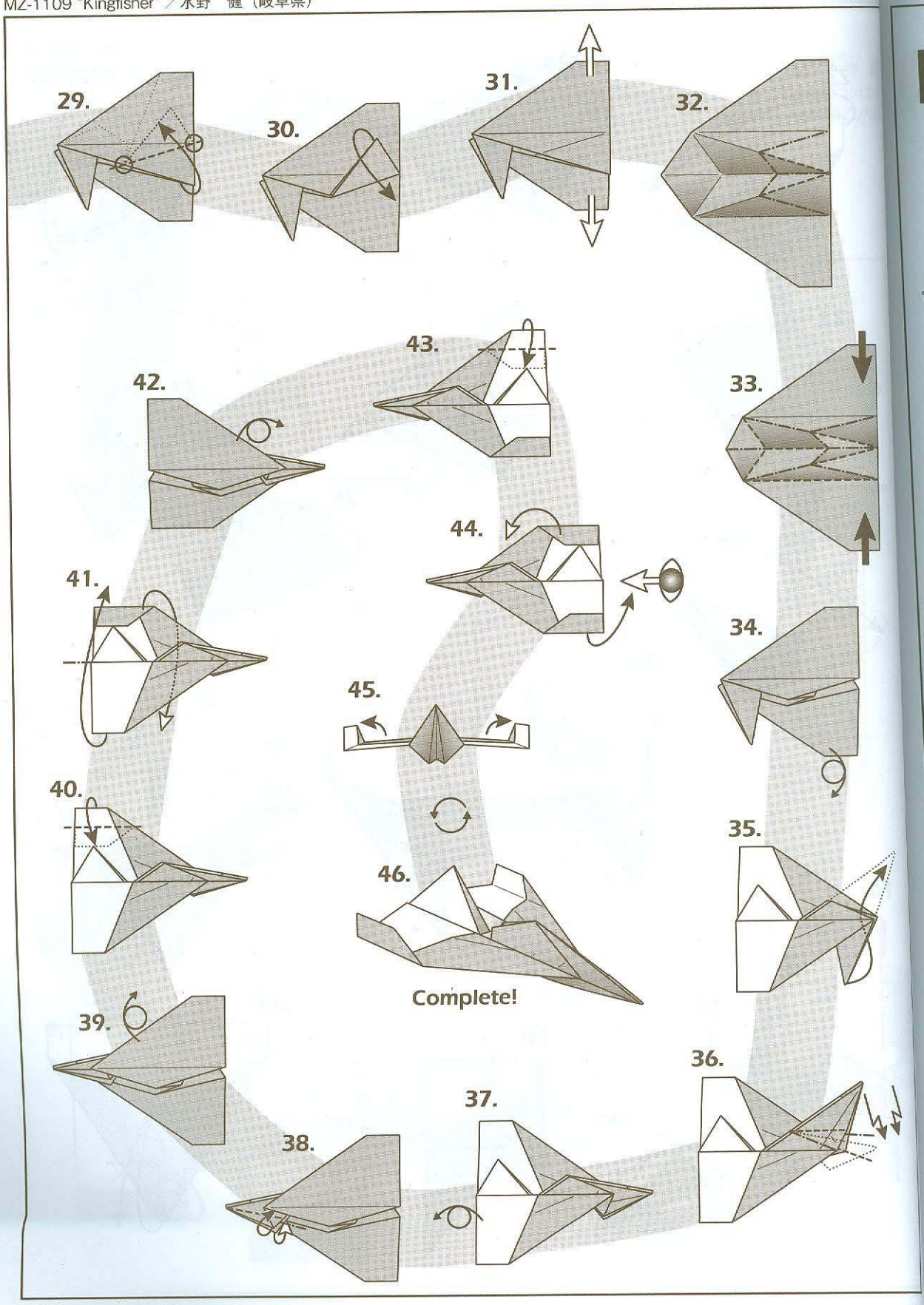


創作・折り図／水野　健
Created 2011.9 & Diagram 2012.6
by Ken MIZUNO




23.
24.
28.
22.
25.
27.
26.
21.
20.
19.
18.
14.
15.
16.
17.

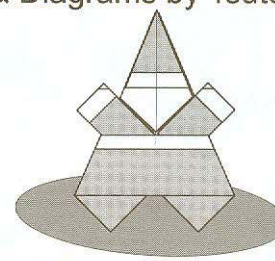
MZ-1109 "Kingfisher" ／水野　健（岐阜県）

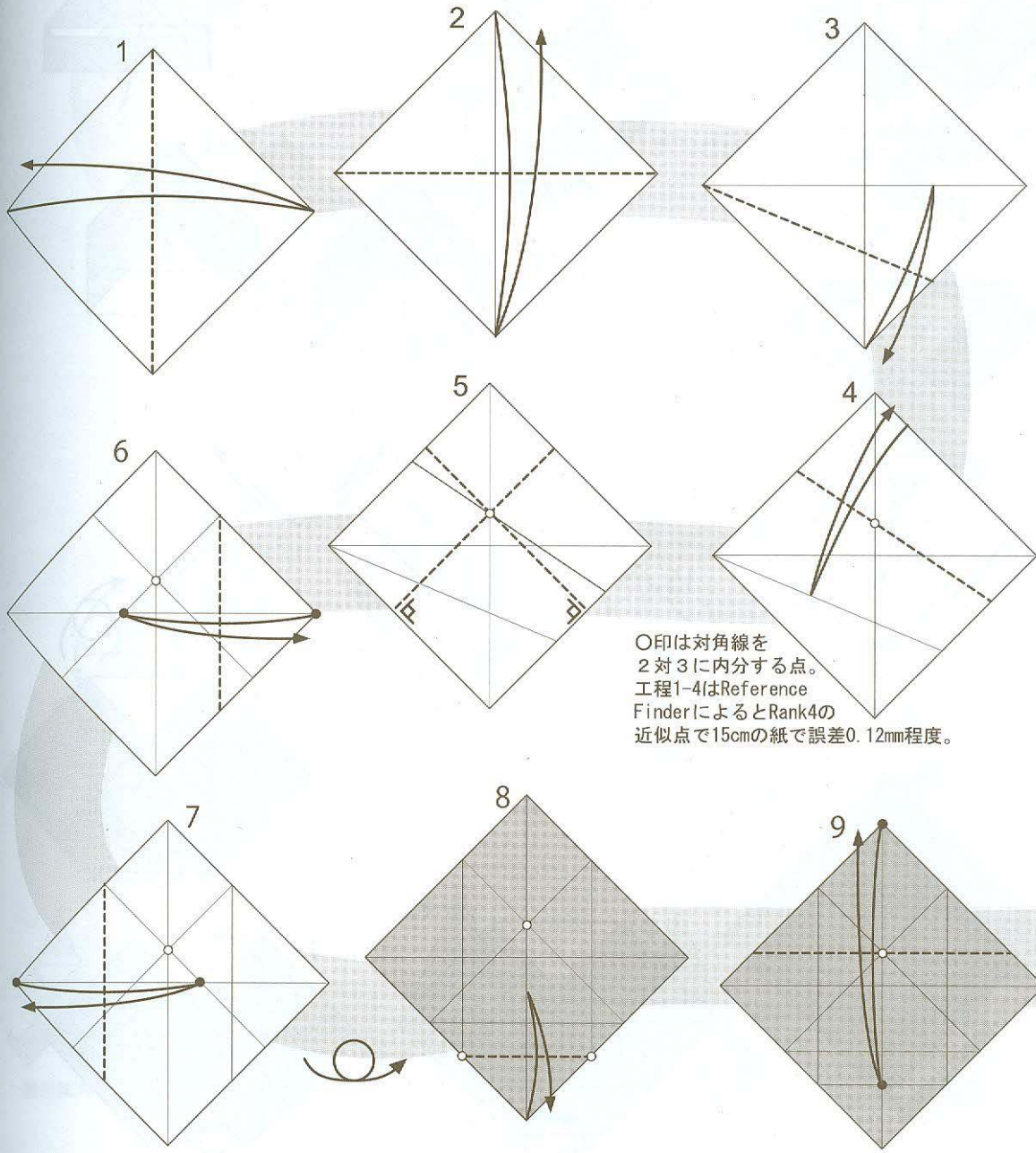


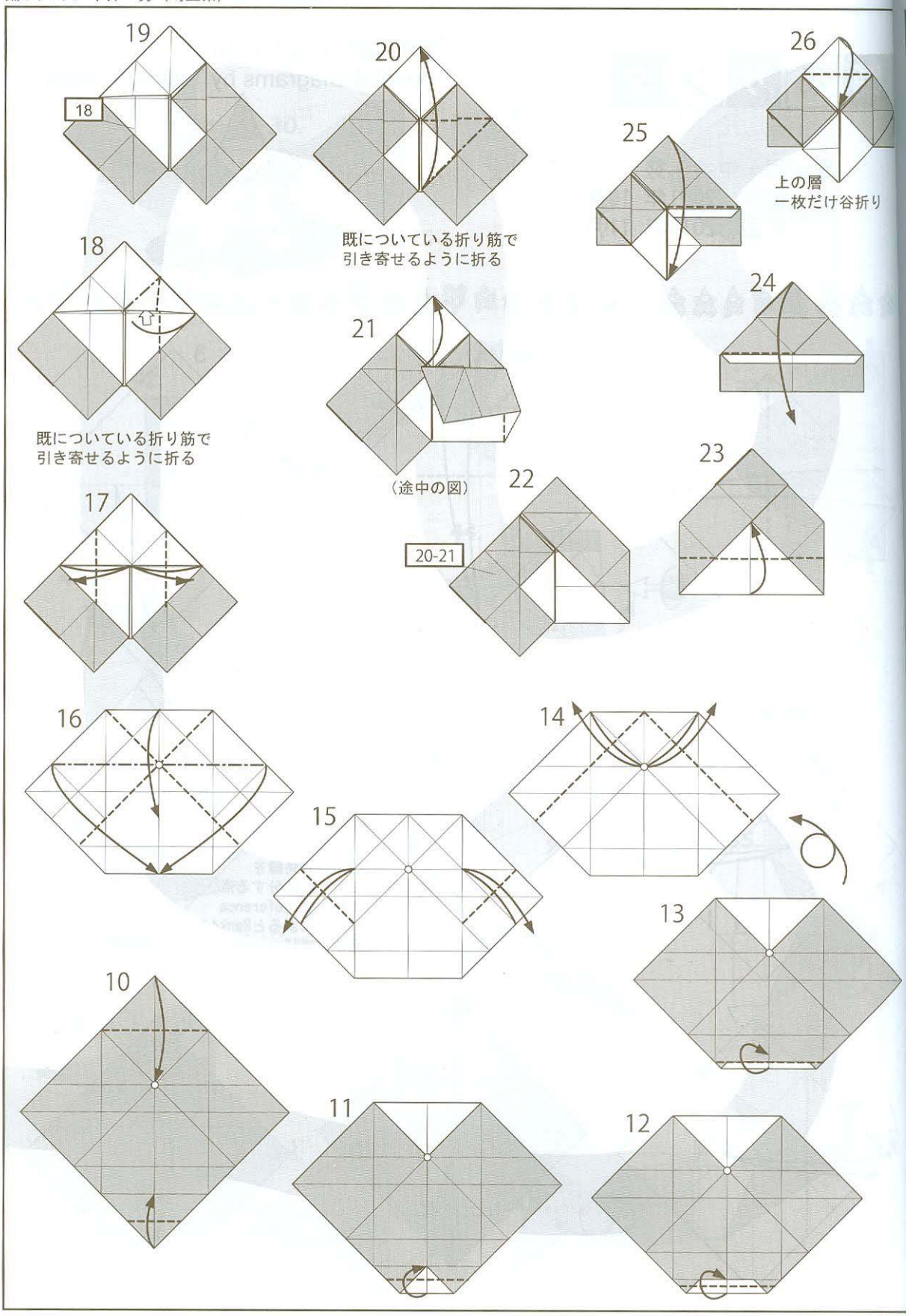
踊るサンタ

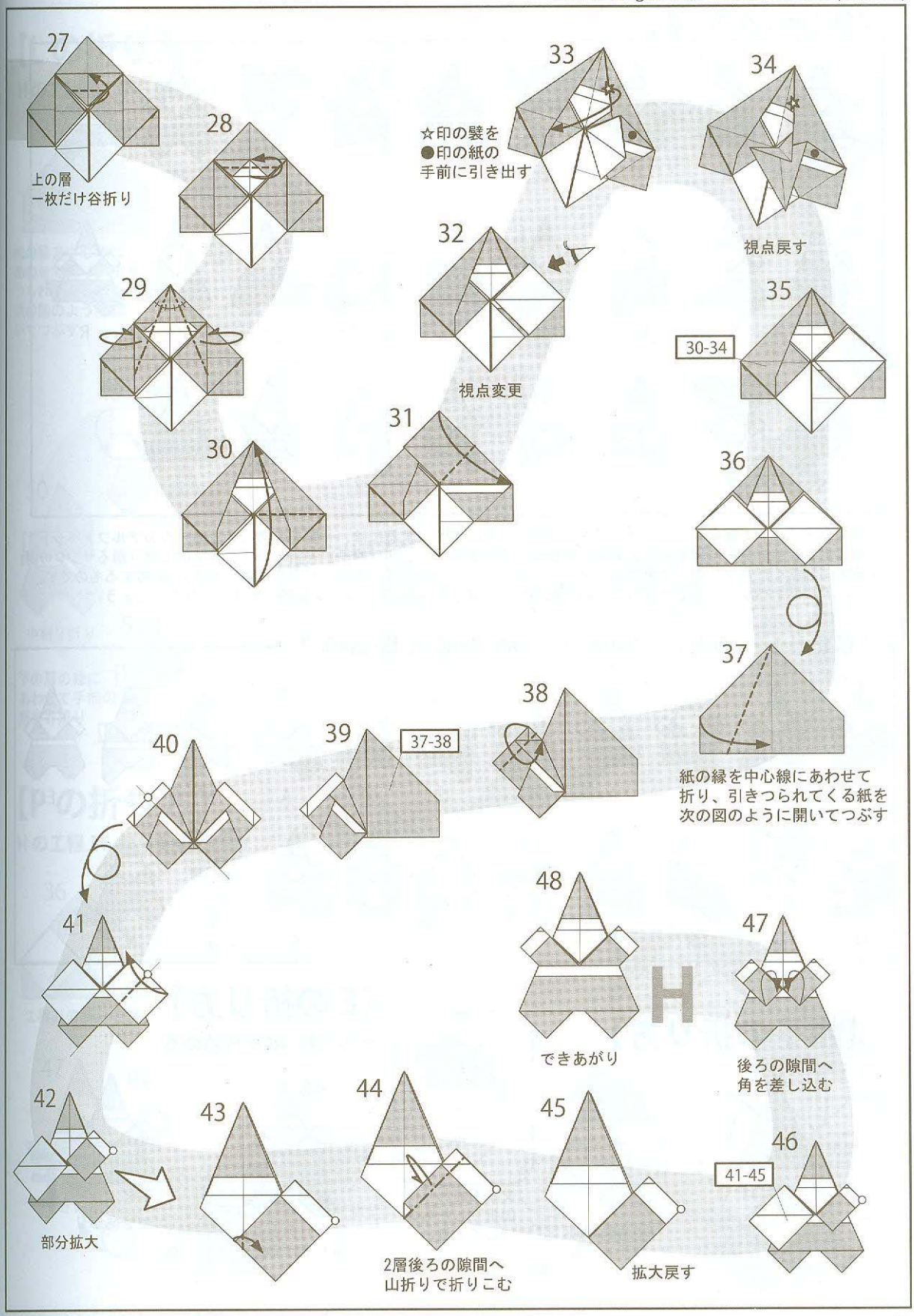
The Dancing Santa
Model & Diagrams by Tsutomu Nakai

作／図　中井　努
創作　2011年 10月
作図　2011年 11月

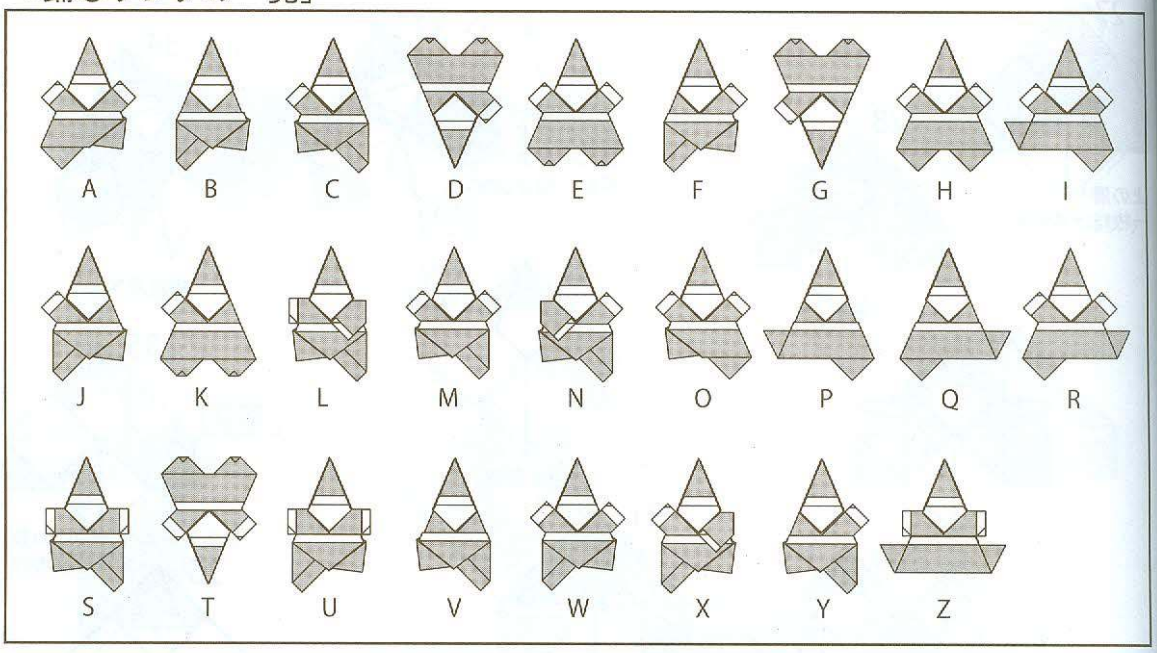





19
18
20
既についている折り筋で
引き寄せるように折る
26
上の層
一枚だけ谷折り
25
18
既についている折り筋で
引き寄せるように折る
21
（途中の図）
24
23
22
20-21
17
16
14
15
13
10
11
12

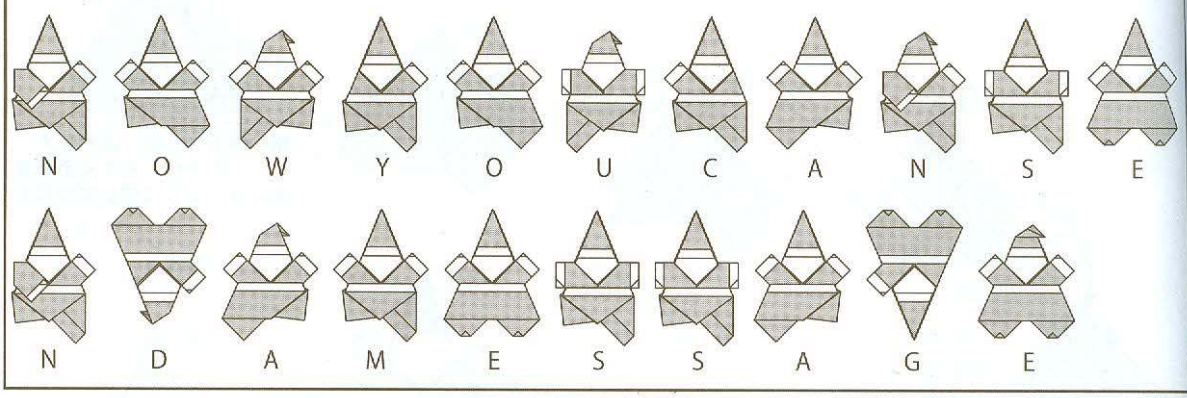

27
上の層
一枚だけ谷折り
28
29
30
31
32
視点変更
33
☆印の襞を
●印の紙の
手前に引き出す
34
視点戻す
35
30-34
36
37
紙の縁を中心線にあわせて
折り、引きつられてくる紙を
次の図のように開いてつぶす
38
39
37-38
40
41
42
部分拡大
43
44
2層後ろの隙間へ
山折りで折りこむ
45
拡大戻す
46
41-45
47
後ろの隙間へ
角を差し込む
48
できあがり
H

「踊るサンタの一覧」

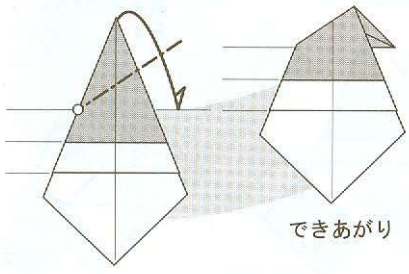


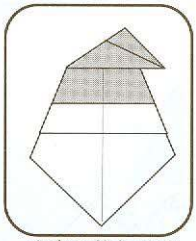
アルファベットで書かれたメッセージを「踊るサンタ」で表現するには、一覧を参考にメッセージのアルファベットに対応する「サンタ」に置き換え、単語の最後の文字を表すサンタの「帽子」を折ります。具体的には「踊るサンタの例」を参考にしてください。尚、一覧にあるように、前のページの折り図で完成したサンタは、文字Hに対応するものです。全てのアルファベットに対応するものを折るためには、後に続く3文字分のサンタが「助け」になるでしょう。

「踊るサンタの例」　"NOW YOU CAN SEND A MESSAGE"



【帽子の折り方】

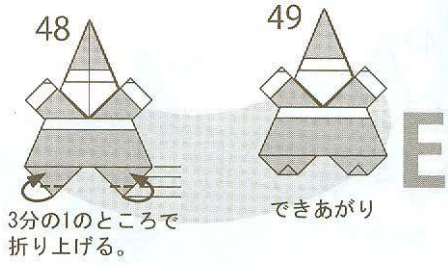




文章の終わりは
山折りしたもの
にしても良い

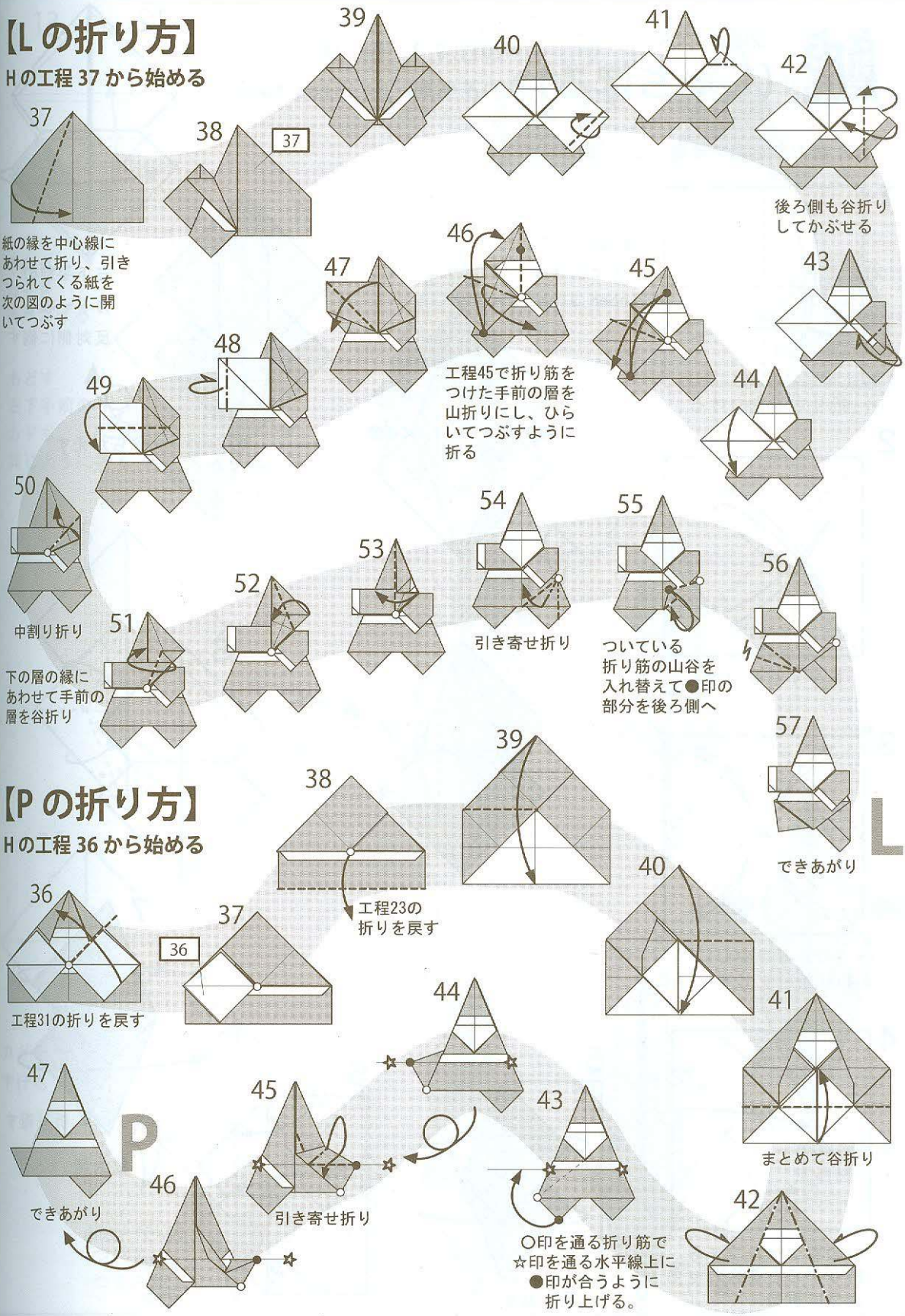
【E の折り方】

H の工程 48 から始める



【Lの折り方】

Hの工程 37 から始める



【Pの折り方】

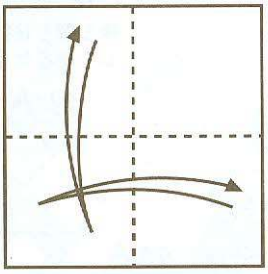
Hの工程 36 から始める

鯱 Shachihoko（しゃちほこ）

2011.9.3　作・図
加茂弘郎　by Hiroo Kamo

※ 紙のうら面を手前にして 折り始める

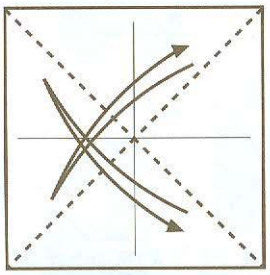
1



折りすじをつける

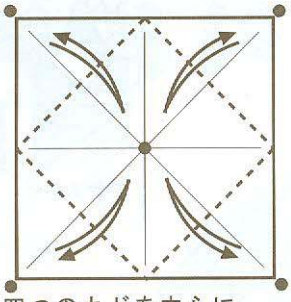
斜線部分を
沈め折り
(open sink)

2



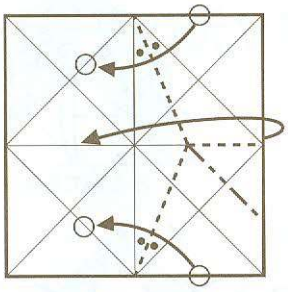
折りすじをつける

3



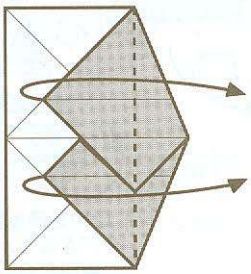
四つのカドを中心に
あわせ折りすじをつける

4



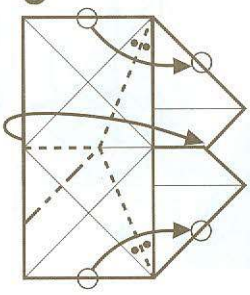
○印をつけたフチと
折りすじとを合わせる
ように折る

5



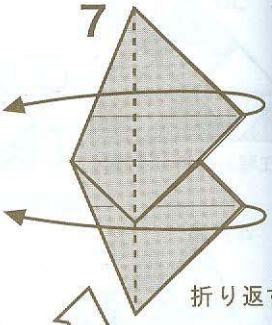
折り返す

6



もう一方も
同様に
折る

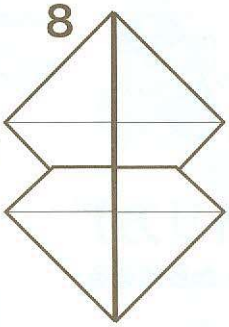
7



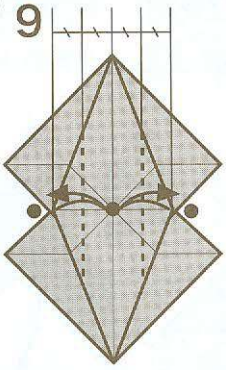
折り返す

拡大図

8



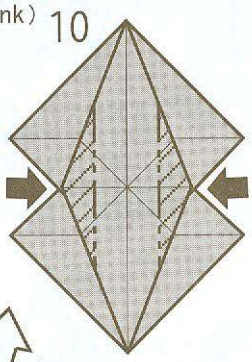
9



折りすじを
つける

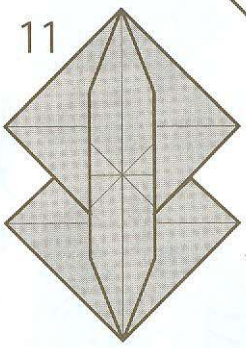
うらがえす

10



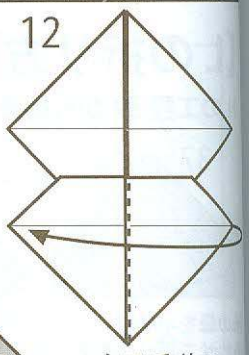
拡大図

11



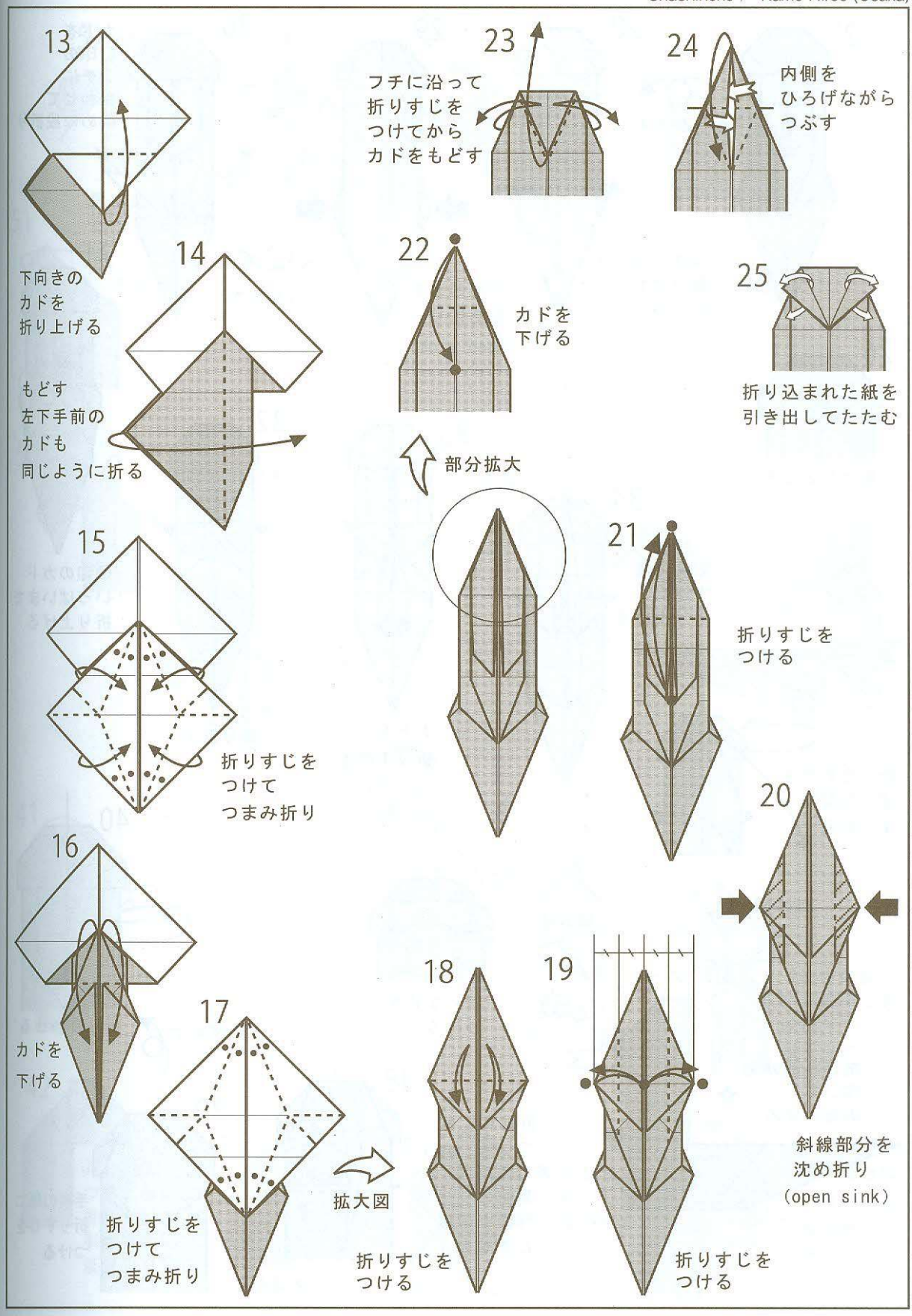
折った
ところ

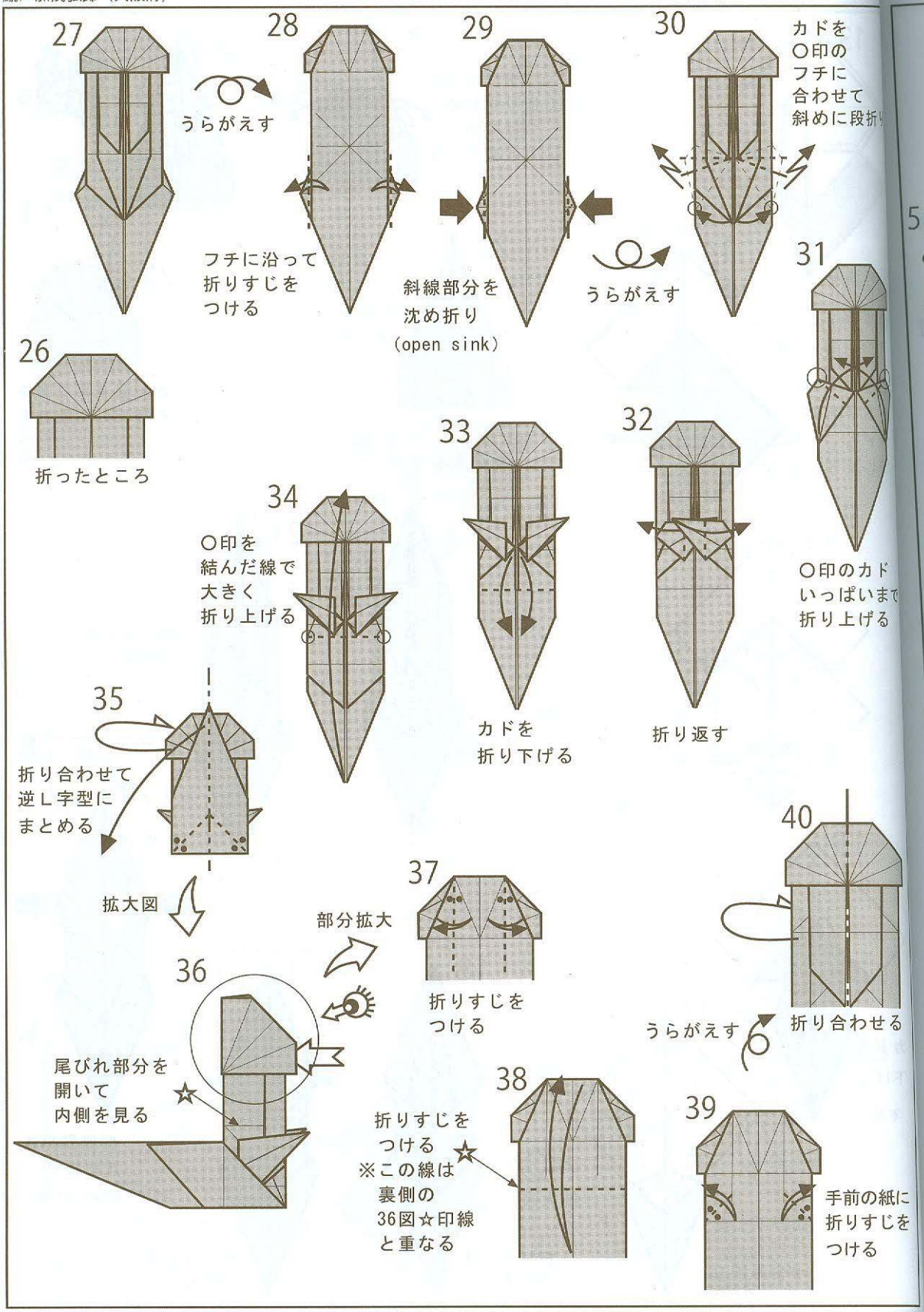
12

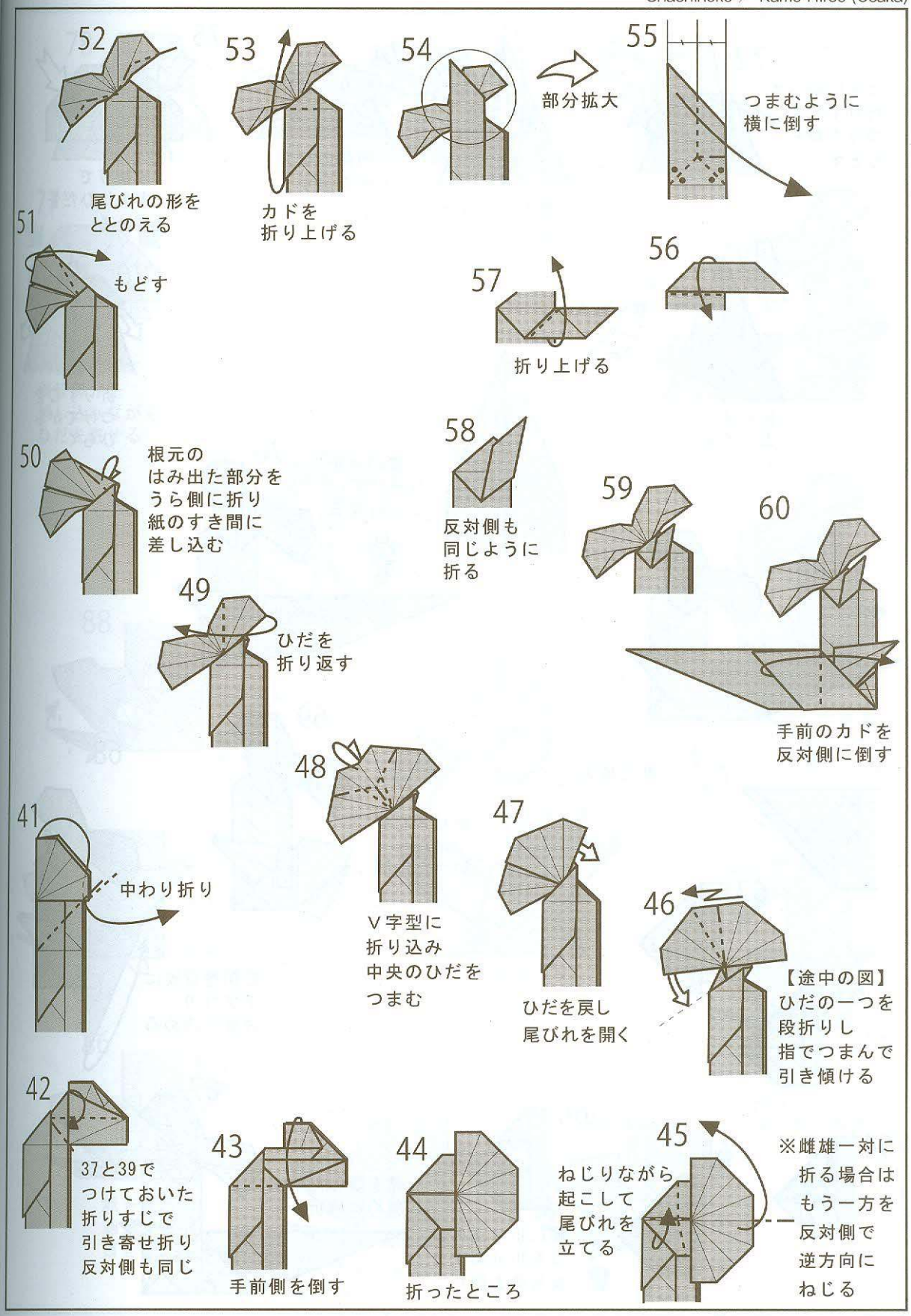


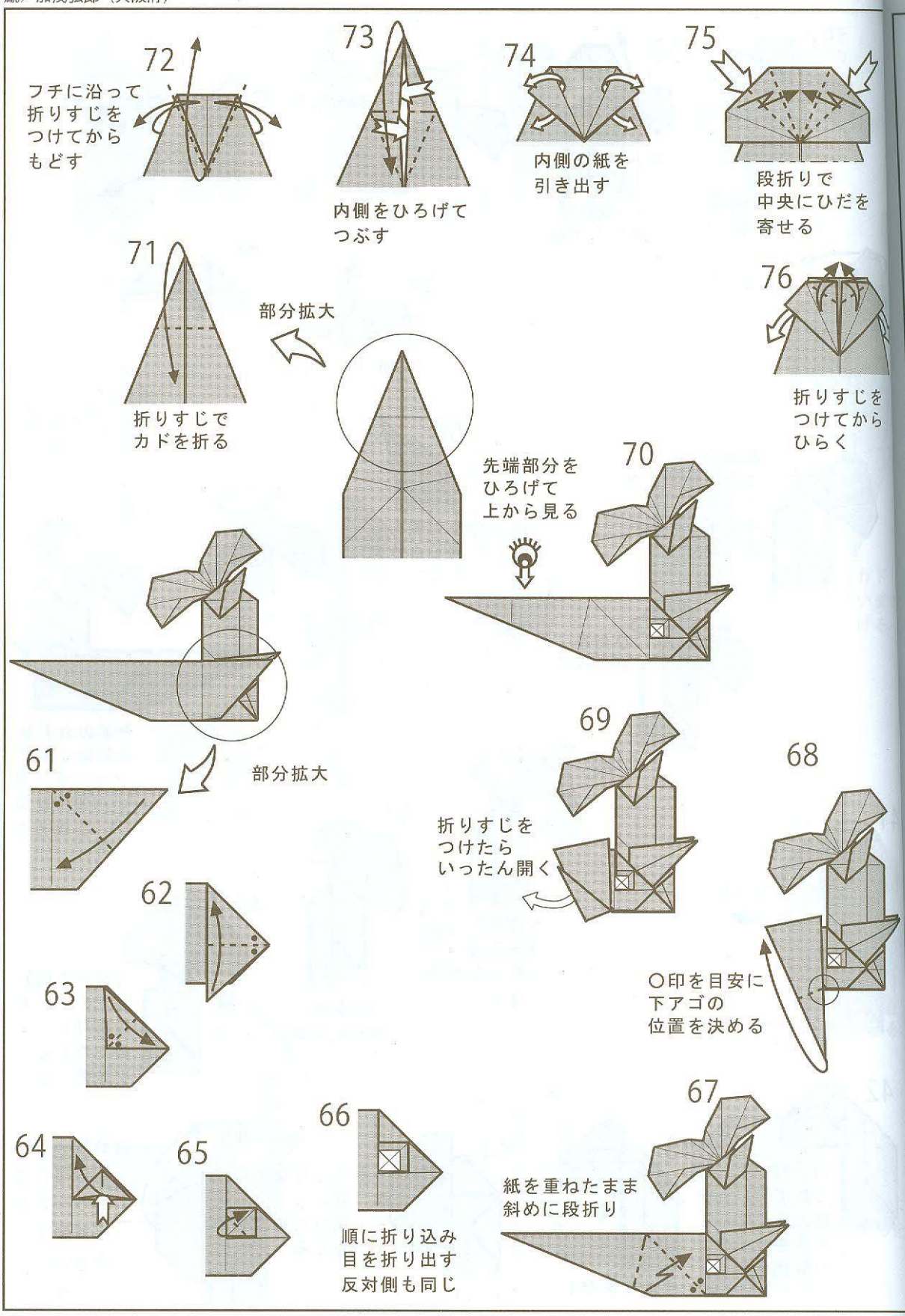
右下手前の
カド一枚を
反対側に倒す

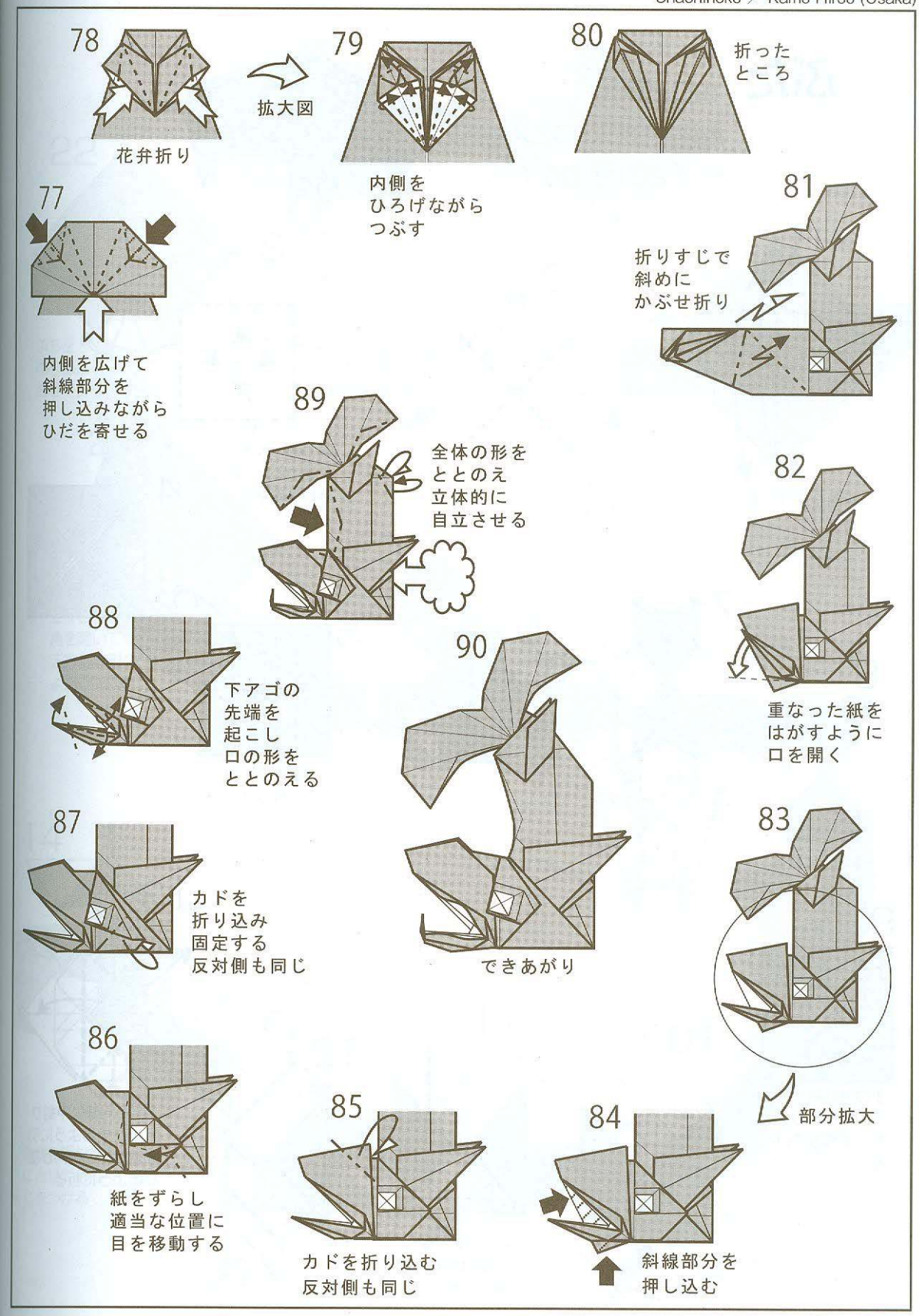
うらがえす


13
下向きの
カドを
折り上げる
14
もどす
左下手前の
カドも
同じように折る
15
折りすじを
つけて
つまみ折り
16
カドを
下げる
17
折りすじを
つけて
つまみ折り
拡大図
18
折りすじを
つける
19
折りすじを
つける
20
斜線部分を
沈め折り
(open sink)
21
折りすじを
つける
部分拡大
22
カドを
下げる
23
フチに沿って
折りすじを
つけてから
カドをもどす
24
内側を
ひろげながら
つぶす
25
折り込まれた紙を
引き出してたたむ


27
28
うらがえす
フチに沿って
折りすじを
つける
29
斜線部分を
沈め折り
(open sink)
30
カドを
○印の
フチに
合わせて
斜めに段折り
うらがえす
31
○印のカド
いっぱいまで
折り上げる
26
折ったところ
32
折り返す
33
カドを
折り下げる
34
○印を
結んだ線で
大きく
折り上げる
35
折り合わせて
逆L字型に
まとめる
拡大図
36
尾びれ部分を
開いて
内側を見る
部分拡大
37
折りすじを
つける
38
折りすじを
つける
※この線は
裏側の
36図☆印線
と重なる
39
手前の紙に
折りすじを
つける
40
うらがえす
折り合わせる


52
尾びれの形を
ととのえる
53
カドを
折り上げる
54
部分拡大
55
つまむように
横に倒す
51
もどす
57
折り上げる
56
50
根元の
はみ出た部分を
うら側に折り
紙のすき間に
差し込む
58
反対側も
同じように
折る
59
60
49
ひだを
折り返す
手前のカドを
反対側に倒す
48
V字型に
折り込み
中央のひだを
つまむ
41
中わり折り
47
ひだを戻し
尾びれを開く
46
【途中の図】
ひだの一つを
段折りし
指でつまんで
引き傾ける
42
37と39で
つけておいた
折りすじで
引き寄せ折り
反対側も同じ
43
手前側を倒す
44
折ったところ
45
ねじりながら
起こして
尾びれを
立てる
※雌雄一対に
折る場合は
もう一方を
反対側で
逆方向に
ねじる

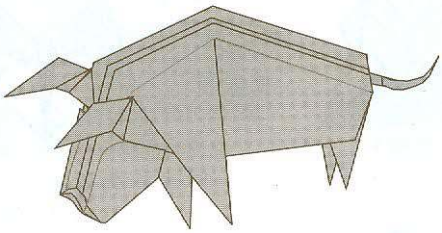

72
フチに沿って
折りすじを
つけてから
もどす
73
内側をひろげて
つぶす
74
内側の紙を
引き出す
75
段折りで
中央にひだを
寄せる
71
部分拡大
折りすじで
カドを折る
76
折りすじを
つけてから
ひらく
先端部分を
ひろげて
上から見る
70
61
部分拡大
69
折りすじを
つけたら
いったん開く
68
62
63
○印を目安に
下アゴの
位置を決める
67
66
64
65
紙を重ねたまま
斜めに段折り
順に折り込み
目を折り出す
反対側も同じ

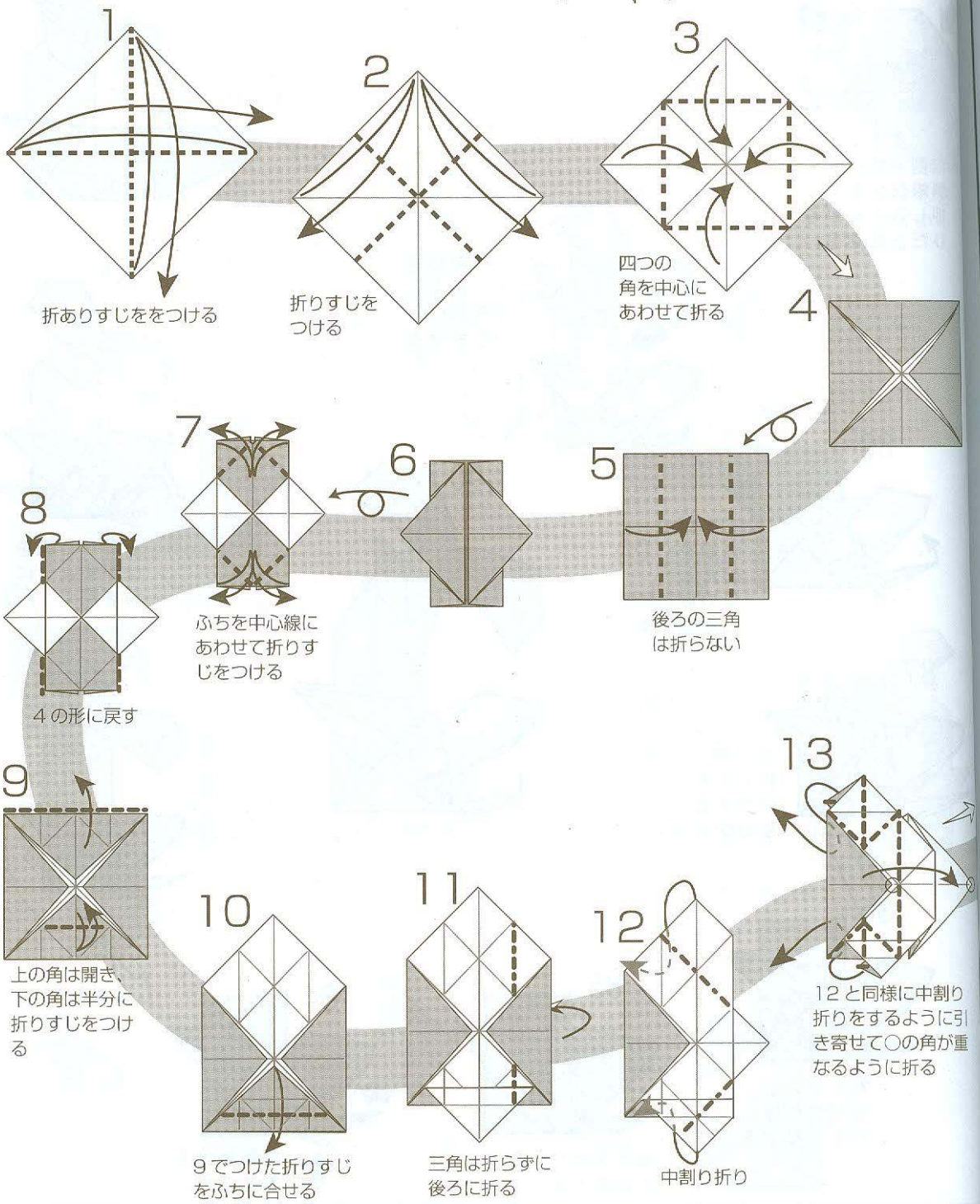

78
花弁折り
拡大図
79
内側を
ひろげながら
つぶす
80
折った
ところ
77
内側を広げて
斜線部分を
押し込みながら
ひだを寄せる
81
折りすじで
斜めに
かぶせ折り
89
全体の形を
ととのえ
立体的に
自立させる
82
重なった紙を
はがすように
口を開く
88
下アゴの
先端を
起こし
口の形を
ととのえる
90
できあがり
87
カドを
折り込み
固定する
反対側も同じ
83
部分拡大
86
紙をずらし
適当な位置に
目を移動する
85
カドを折り込む
反対側も同じ
84
斜線部分を
押し込む

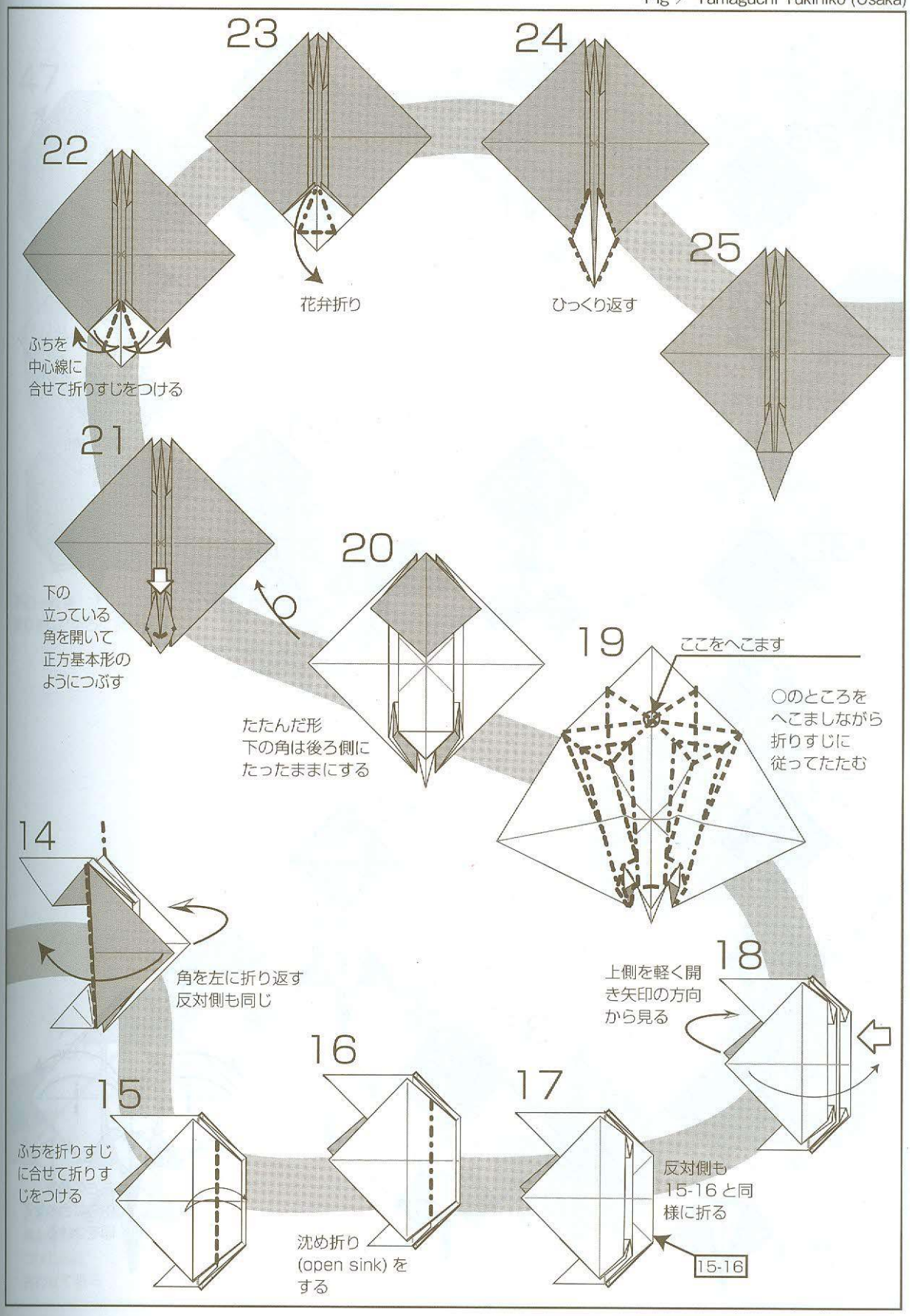
ぶた 山口之彦

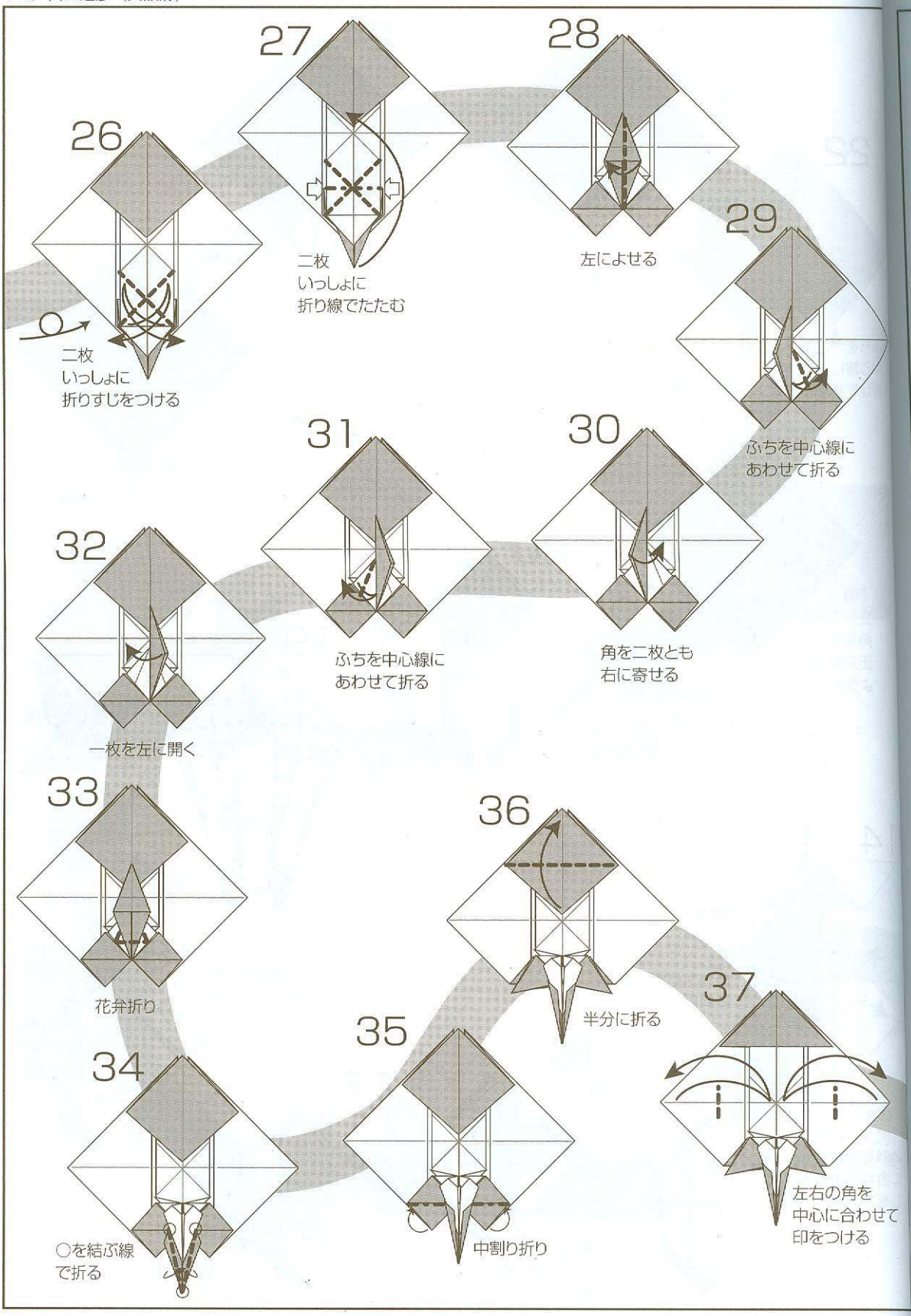
創作 2011. XX. XX

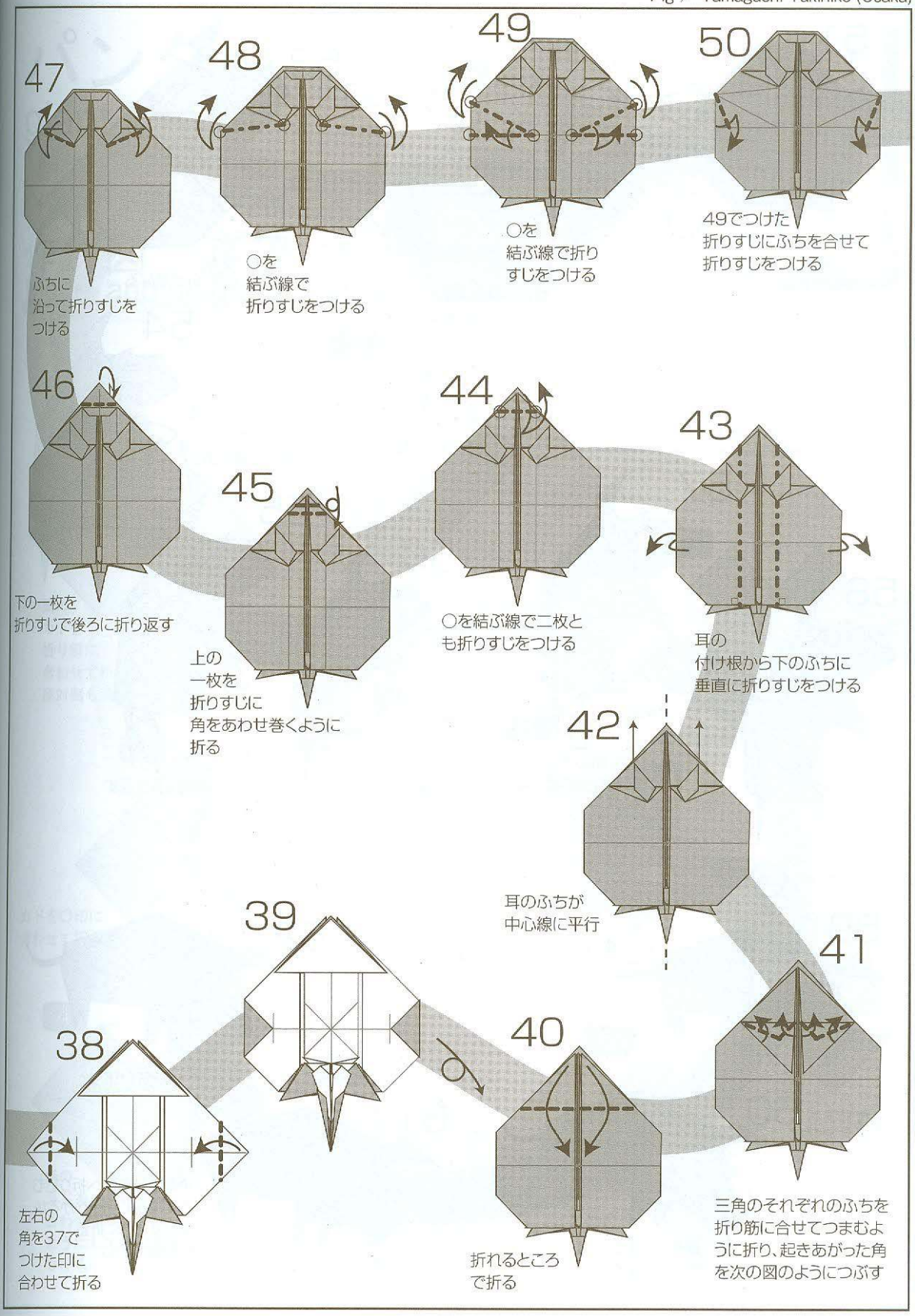
作図 2012. 06. 09

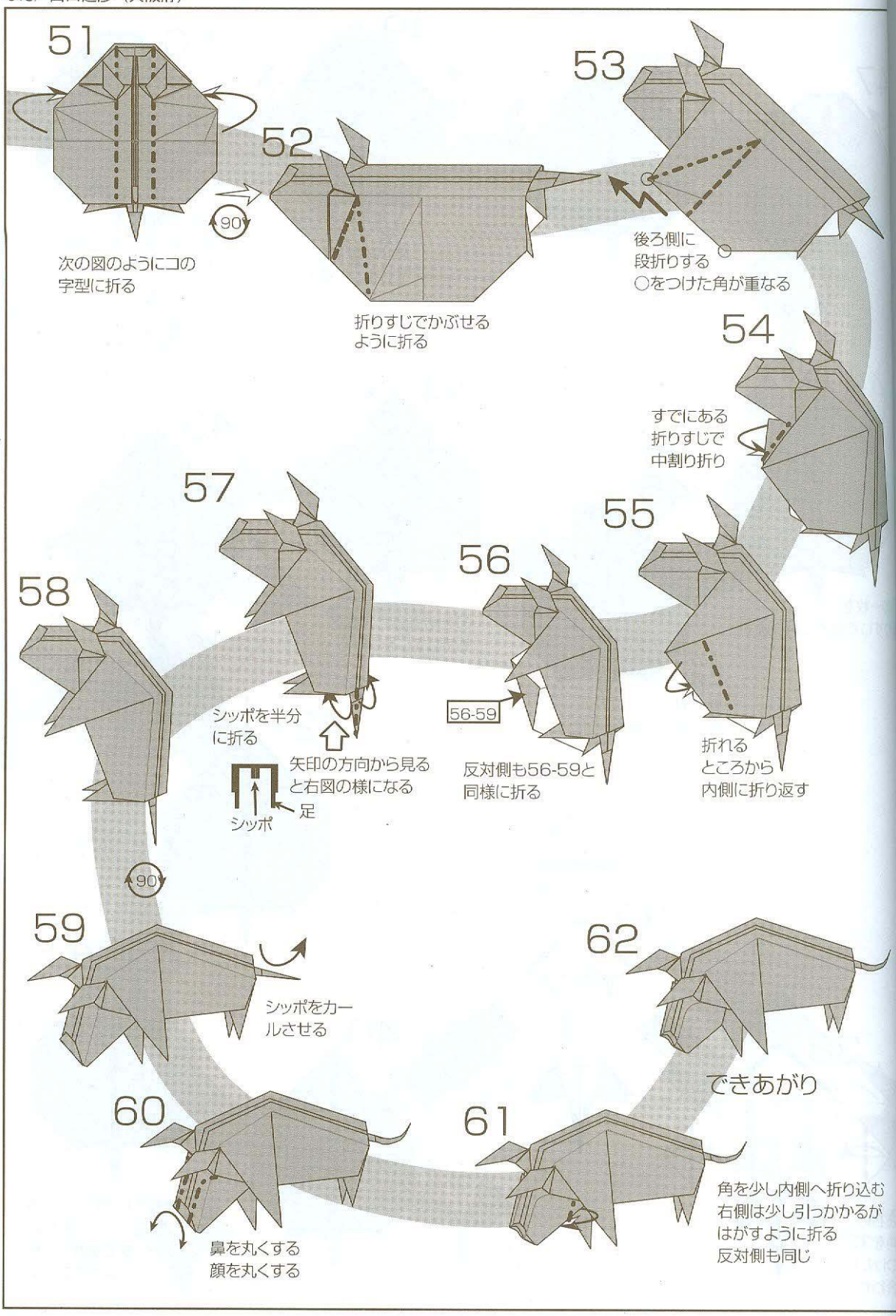





23
24
22
花弁折り
ひっくり返す
25
ふちを
中心線に
合せて折りすじをつける
21
下の
立っている
角を開いて
正方基本形の
ようにつぶす
20
たたんだ形
下の角は後ろ側に
たったままにする
19
ここをへこます
○のところを
へこましながら
折りすじに
従ってたたむ
14
角を左に折り返す
反対側も同じ
18
上側を軽く開
き矢印の方向
から見る
16
15
17
ふちを折りすじ
に合せて折りす
じをつける
沈め折り
(open sink) を
する
反対側も
15-16と同
様に折る
15-16


26
二枚
いっしょに
折りすじをつける
27
二枚
いっしょに
折り線でたたむ
28
左によせる
29
ふちを中心線に
あわせて折る
30
角を二枚とも
右に寄せる
31
ふちを中心線に
あわせて折る
32
一枚を左に開く
33
花弁折り
34
○を結ぶ線
で折る
35
中割り折り
36
半分に折る
37
左右の角を
中心に合わせて
印をつける

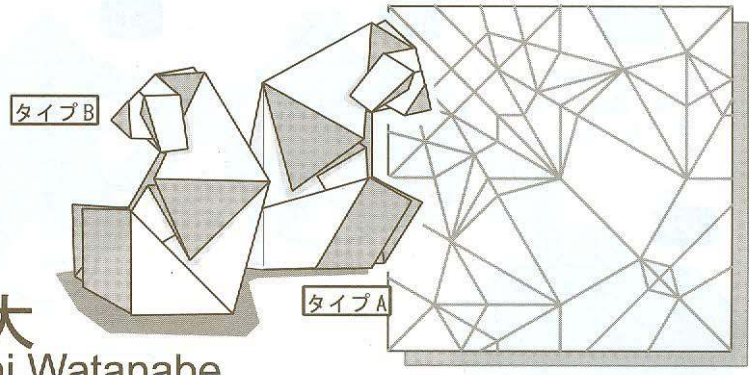

47
ふちに
沿って折りすじを
つける
48
○を
結ぶ線で
折りすじをつける
49
○を
結ぶ線で折り
すじをつける
50
49でつけた
折りすじにふちを合せて
折りすじをつける
46
下の一枚を
折りすじで後ろに折り返す
45
上の
一枚を
折りすじに
角をあわせ巻くように
折る
44
○を結ぶ線で二枚と
も折りすじをつける
43
耳の
付け根から下のふちに
垂直に折りすじをつける
42
耳のふちが
中心線に平行
41
三角のそれぞれのふちを
折り筋に合せてつまむよ
うに折り、起きあがった角
を次の図のようにつぶす
40
折れるところ
で折る
39
38
左右の
角を37で
つけた印に
合わせて折る


51
次の図のようにコの
字型に折る
90
52
折りすじでかぶせる
ように折る
53
後ろ側に
段折りする
○をつけた角が重なる
54
すでにある
折りすじで
中割り折り
55
折れる
ところから
内側に折り返す
56
56-59
反対側も56-59と
同様に折る
57
シッポを半分
に折る
矢印の方向から見る
と右図の様になる
足
シッポ
58
90
59
シッポをカー
ルさせる
60
鼻を丸くする
顔を丸くする
61
角を少し内側へ折り込む
右側は少し引っかかるが
はがすように折る
反対側も同じ
62
できあがり

パンダ
giant panda

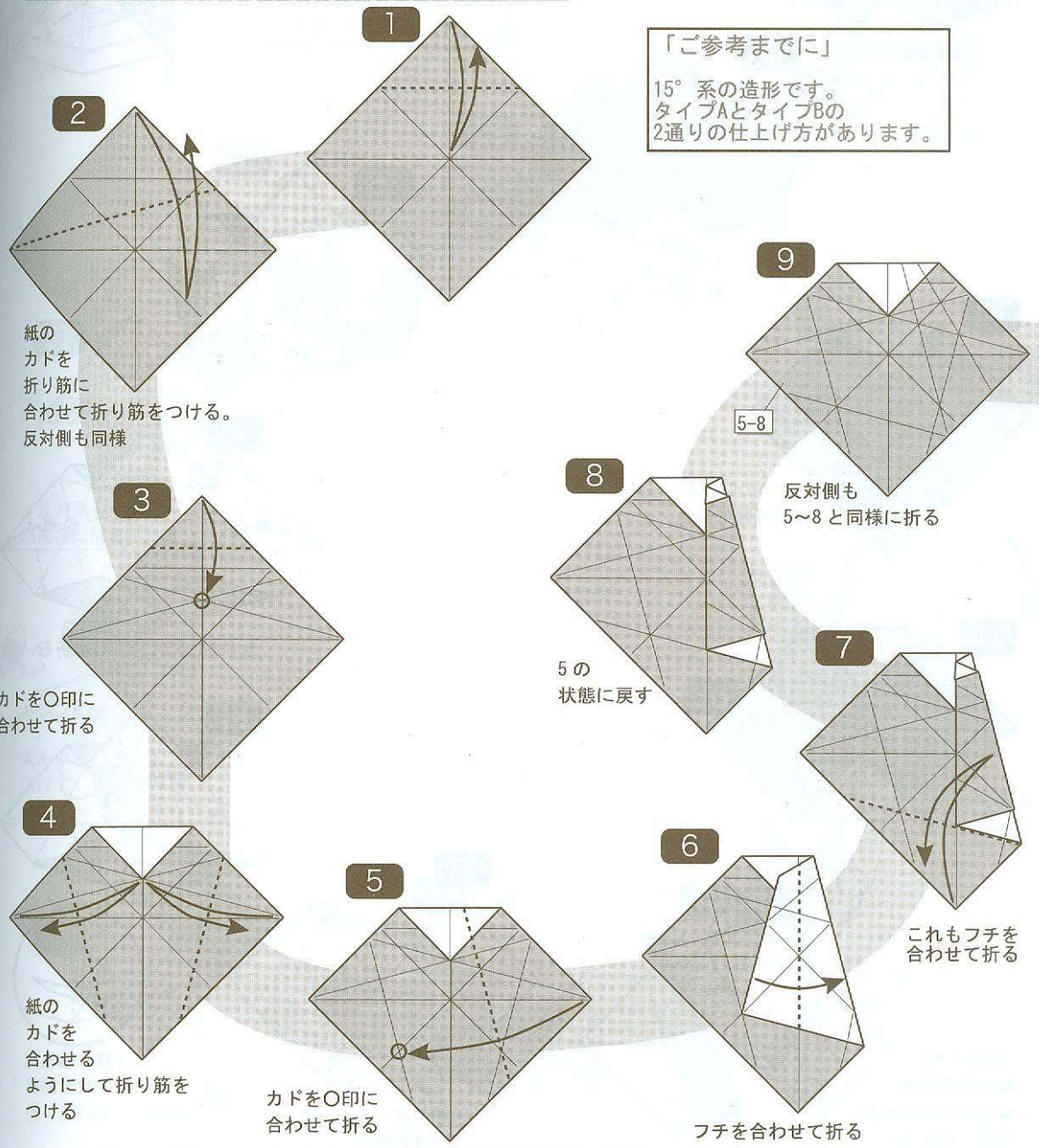
創作　2009/07/09
作図　2009/07/26

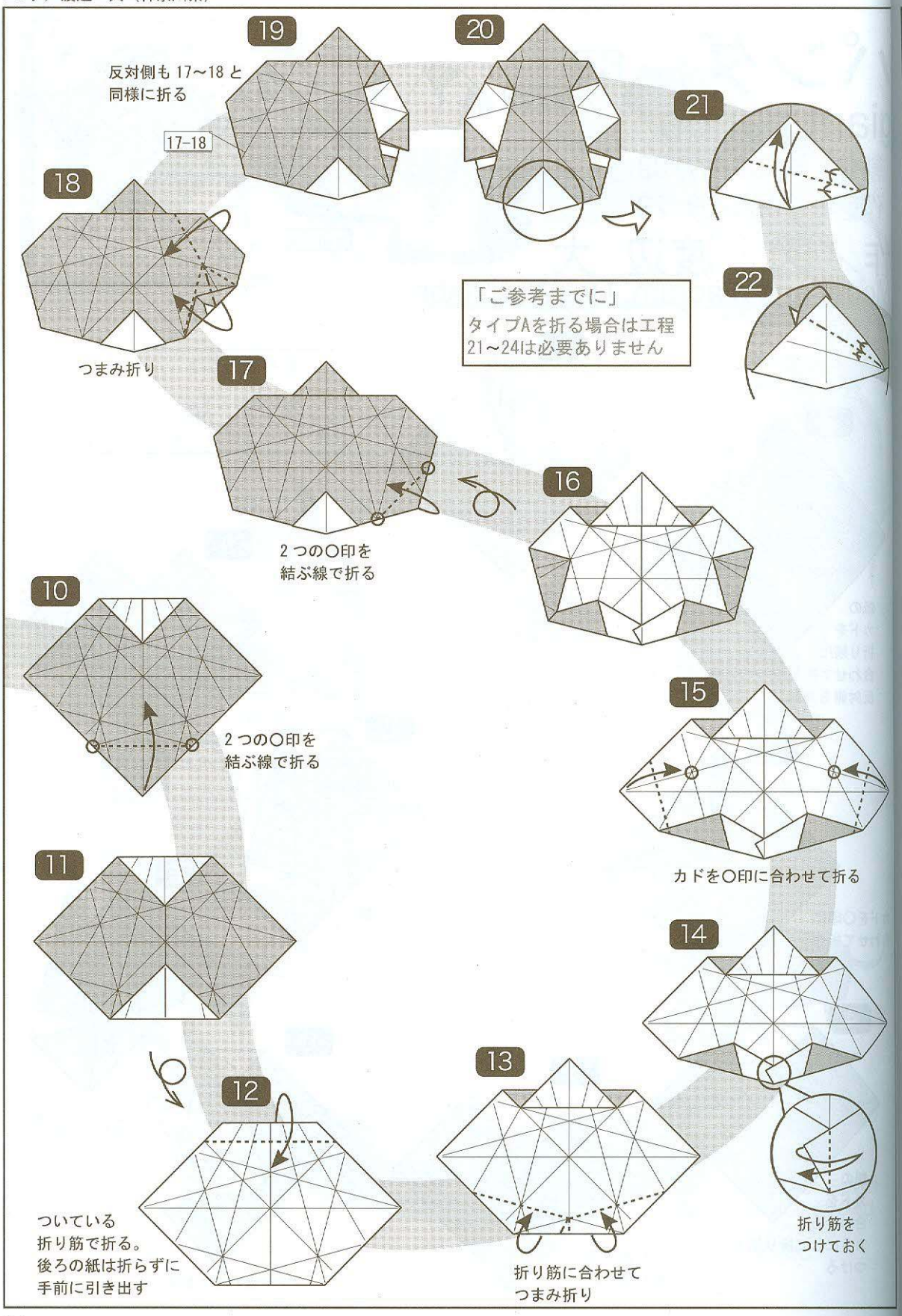
作／図：渡辺 大
Model and diagram: Dai Watanabe

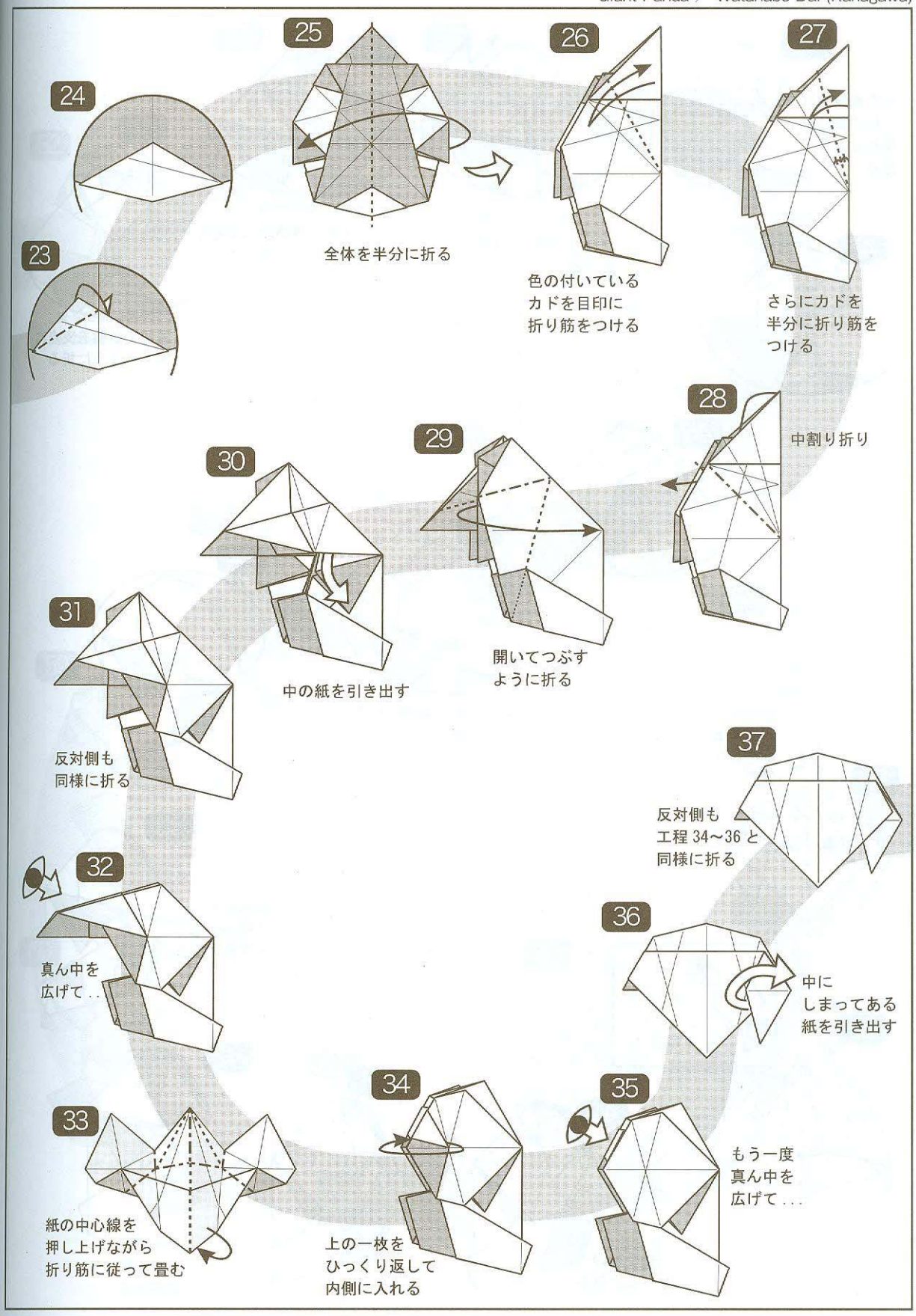


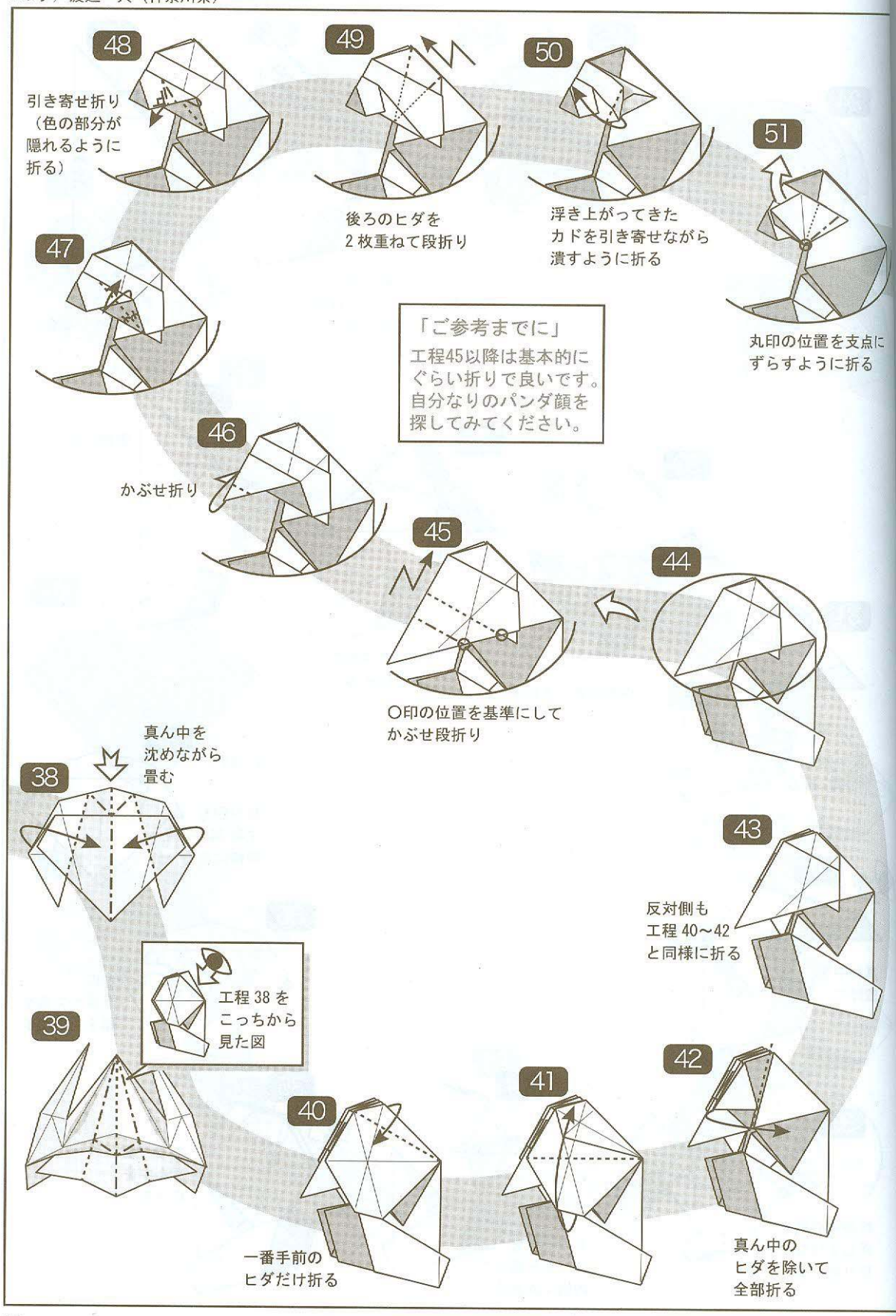
「ご参考までに」

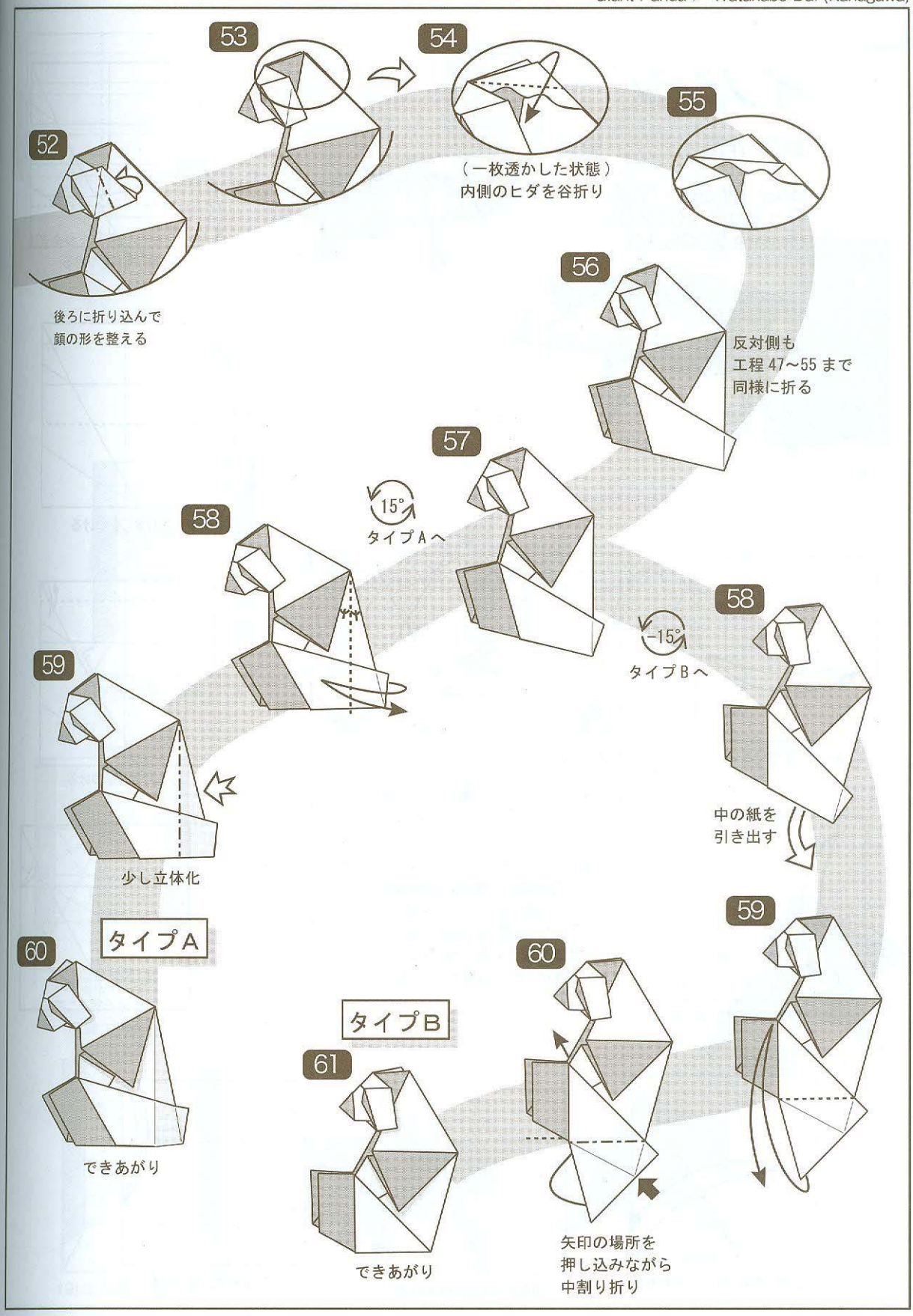
15° 系の造形です。
タイプAとタイプBの
2通りの仕上げ方があります。




19
反対側も 17～18 と
同様に折る
17-18
20
21
18
つまみ折り
「ご参考までに」
タイプAを折る場合は工程
21～24は必要ありません
22
17
2 つの○印を
結ぶ線で折る
16
10
2 つの○印を
結ぶ線で折る
15
カドを○印に合わせて折る
11
14
12
13
ついている
折り筋で折る。
後ろの紙は折らずに
手前に引き出す
折り筋に合わせて
つまみ折り
折り筋を
つけておく


23
24
25
全体を半分に折る
26
色の付いている
カドを目印に
折り筋をつける
27
さらにカドを
半分に折り筋を
つける
28
中割り折り
29
開いてつぶす
ように折る
30
中の紙を引き出す
31
反対側も
同様に折る
32
真ん中を
広げて..
33
紙の中心線を
押し上げながら
折り筋に従って畳む
34
上の一枚を
ひっくり返して
内側に入れる
35
もう一度
真ん中を
広げて...
36
中に
しまってある
紙を引き出す
37
反対側も
工程 34～36 と
同様に折る

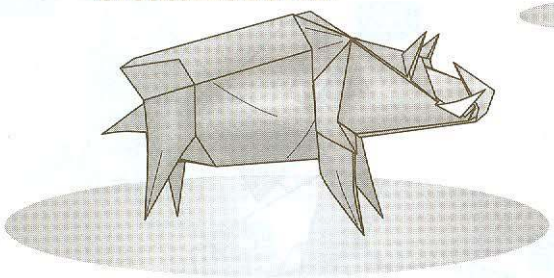

48
引き寄せ折り
（色の部分が
隠れるように
折る）
49
後ろのヒダを
2枚重ねて段折り
50
浮き上がってきた
カドを引き寄せながら
潰すように折る
51
丸印の位置を支点に
ずらすように折る
47
「ご参考までに」
工程45以降は基本的に
ぐらい折りで良いです。
自分なりのパンダ顔を
探してみてください。
46
かぶせ折り
45
○印の位置を基準にして
かぶせ段折り
44
真ん中を
沈めながら
畳む
38
43
反対側も
工程 40～42
と同様に折る
工程 38 を
こっちから
見た図
39
42
41
40
一番手前の
ヒダだけ折る
真ん中の
ヒダを除いて
全部折る

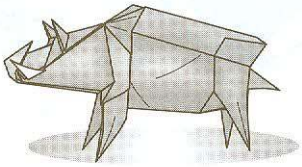

52
後ろに折り込んで
顔の形を整える
53
54
（一枚透かした状態）
内側のヒダを谷折り
55
56
反対側も
工程 47～55 まで
同様に折る
57
15°
タイプAへ
58
-15°
タイプBへ
58
中の紙を
引き出す
59
少し立体化
59
60
タイプA
できあがり
60
タイプB
61
できあがり
矢印の場所を
押し込みながら
中割り折り

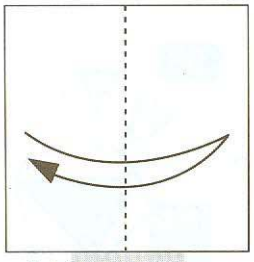
イノシシ

創作・作図　西川　誠司

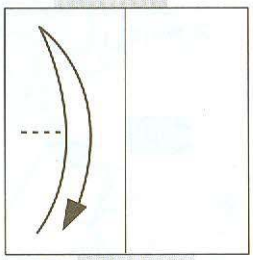
Boar by Seiji Nishikawa
Diagram: 2012.05.
Create:2006.10.



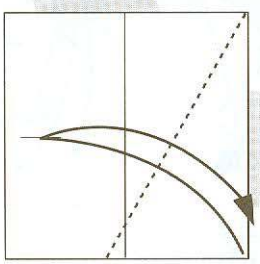




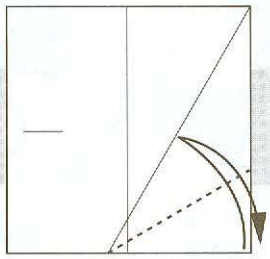
1) おりすじをつける



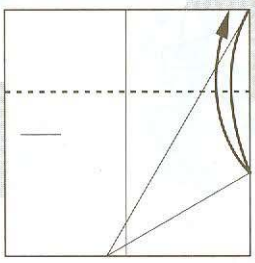
2) 一部分だけおりすじをつける



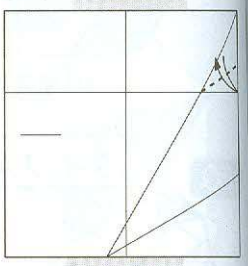
3) カドをおりすじにあわせて



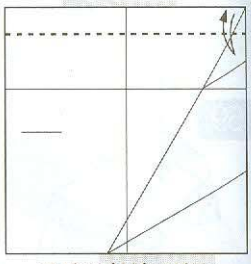
4) 辺をおりすじに合わせる



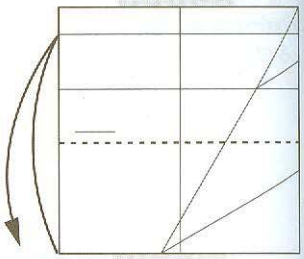
5) おりすじをつける



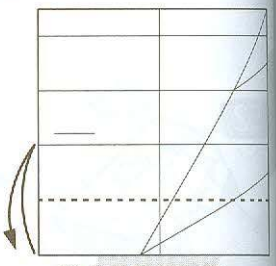
6) 角の二等分



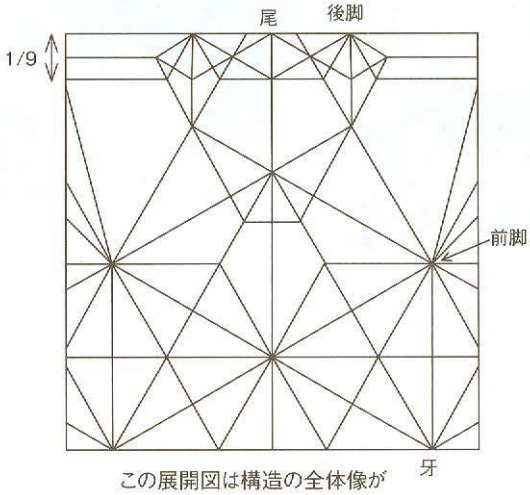
7) おりすじをつける



8) おりすじをつける



9) おりすじをつける



この展開図は構造の全体像がわかり易いように示しています。この展開図に完全に対応する工程上の形は有りません。前脚が 45)、後脚が 53) あたりのものです。

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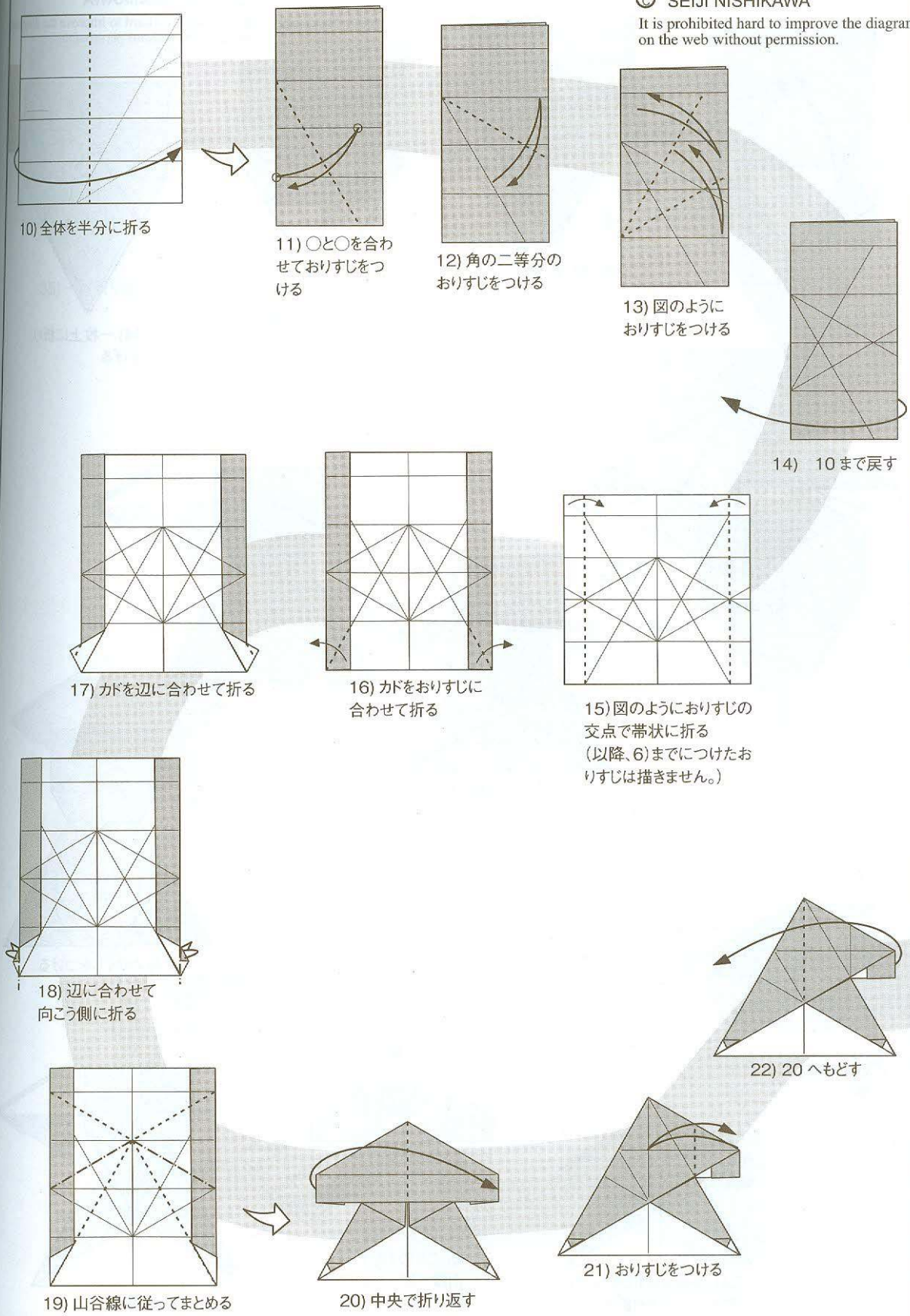

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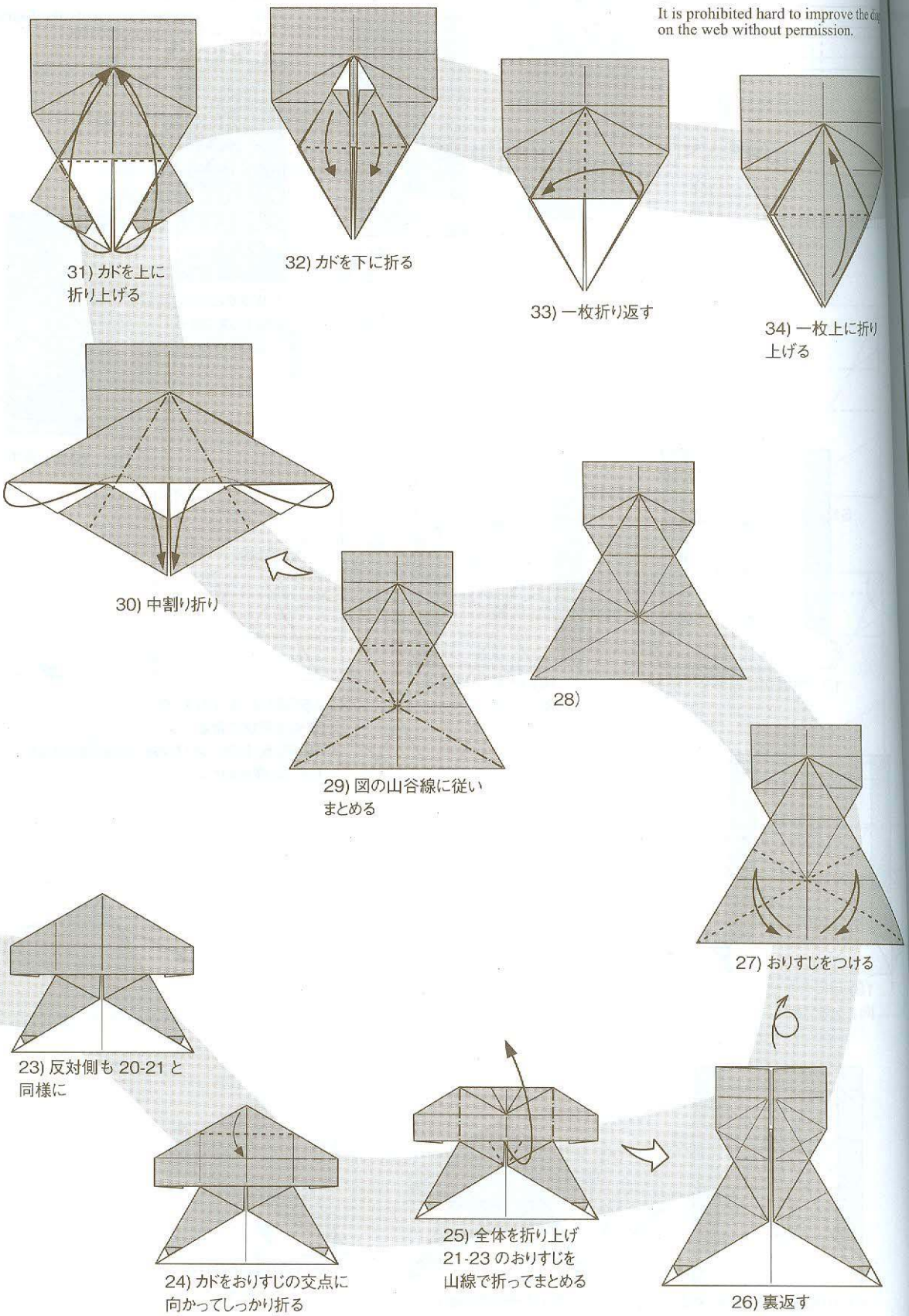

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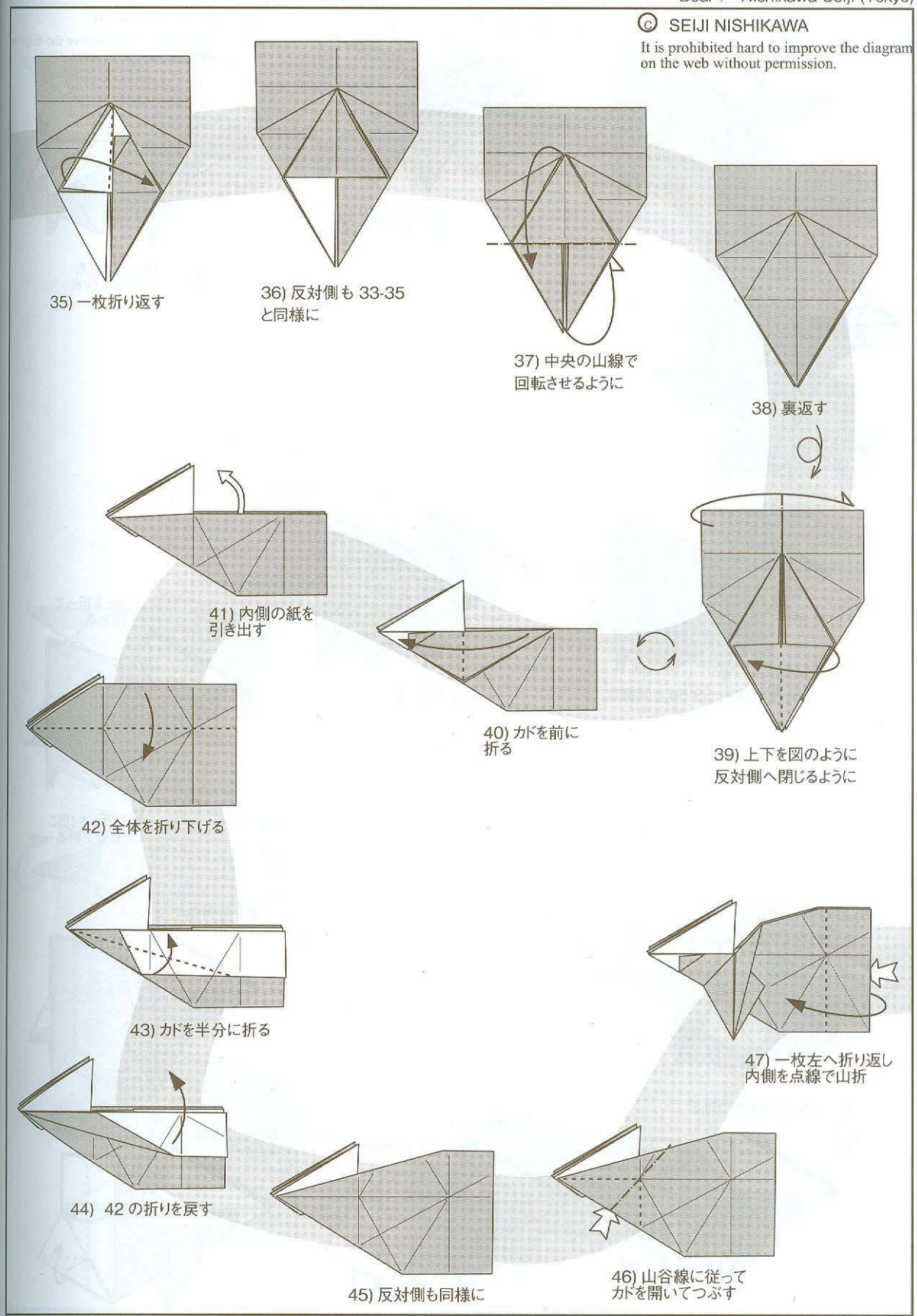

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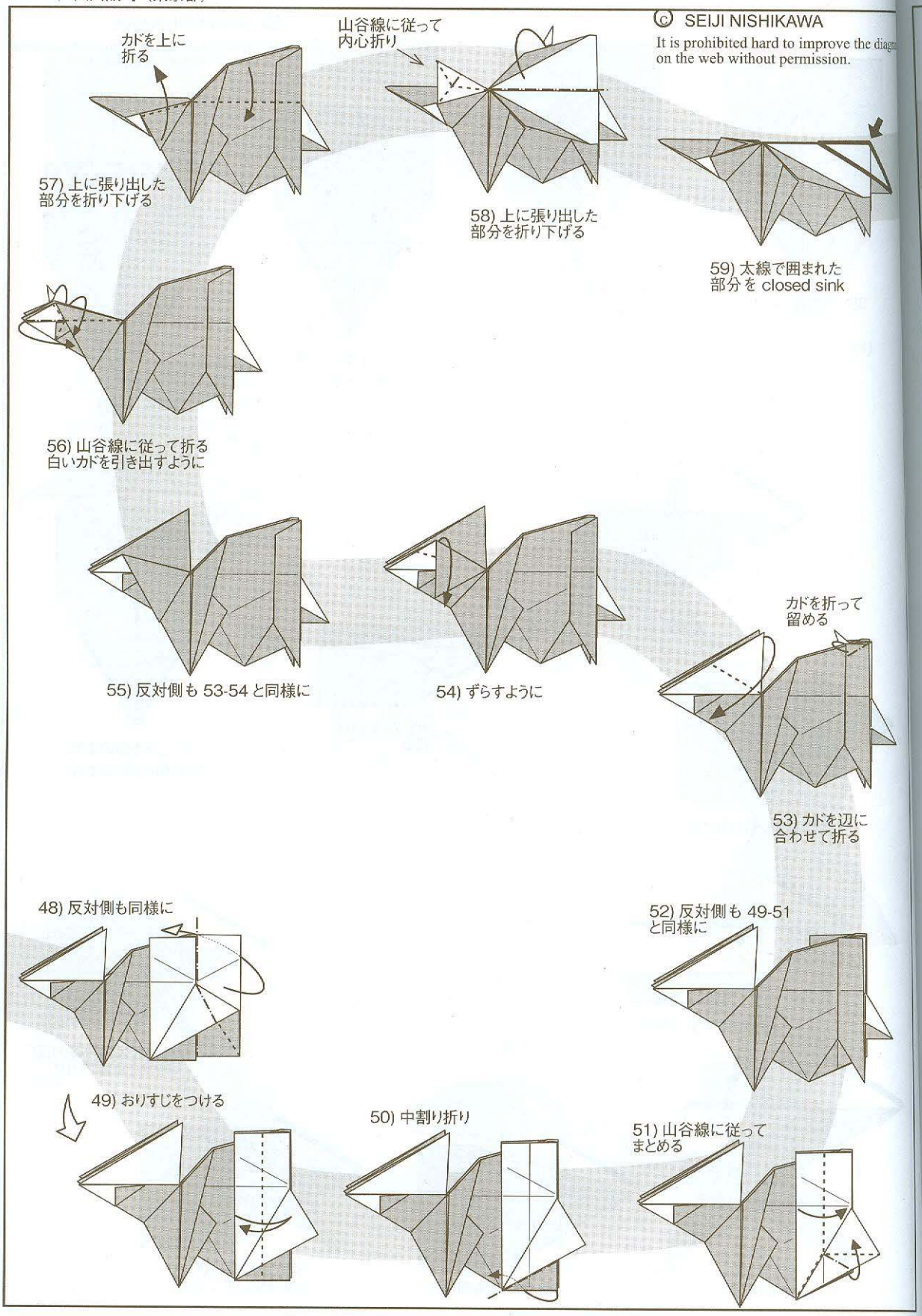

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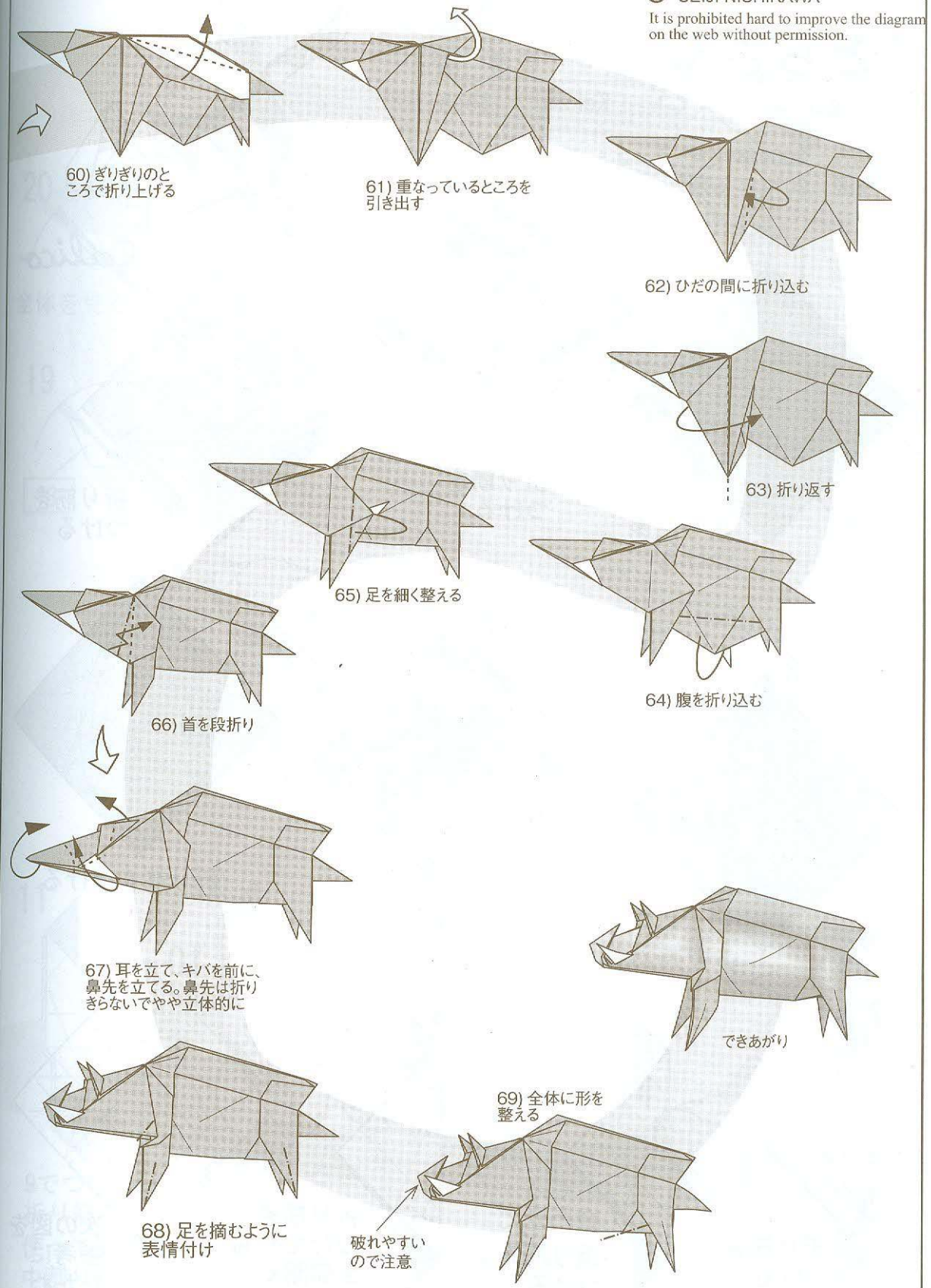


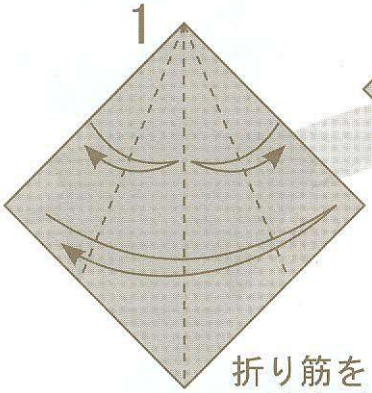
とらさん

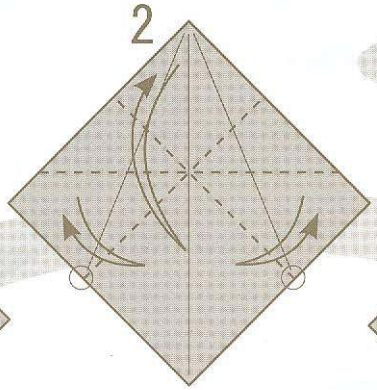
各務　均

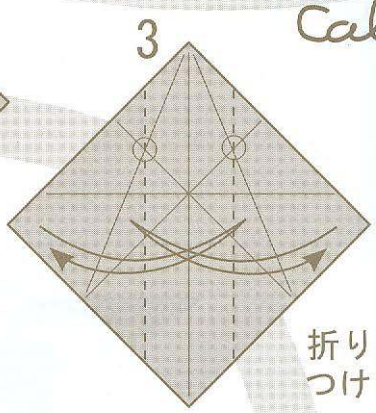
Tiger 3

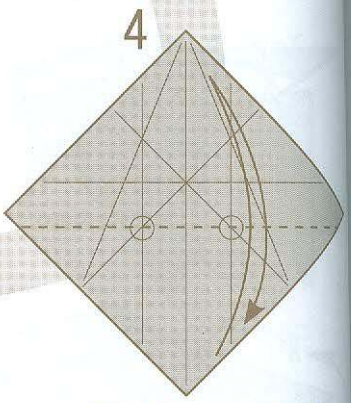
Kakami Hitoshi

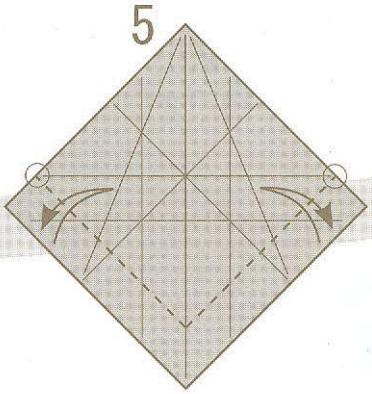
創作　2009年12月
作図　2012年 5月

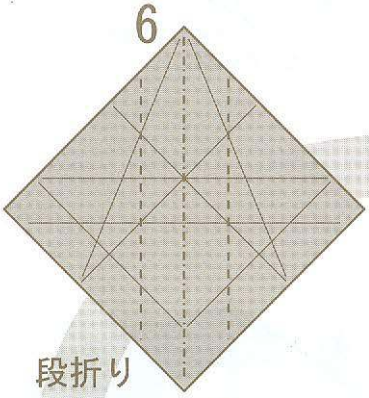


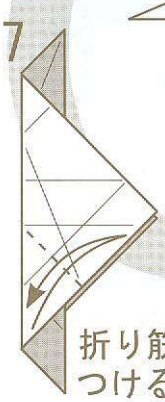


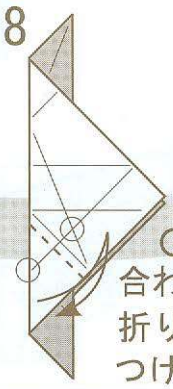


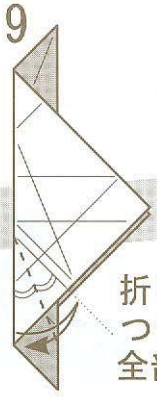


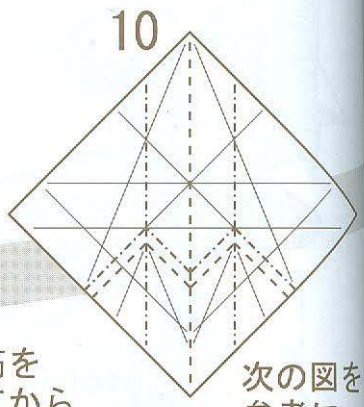


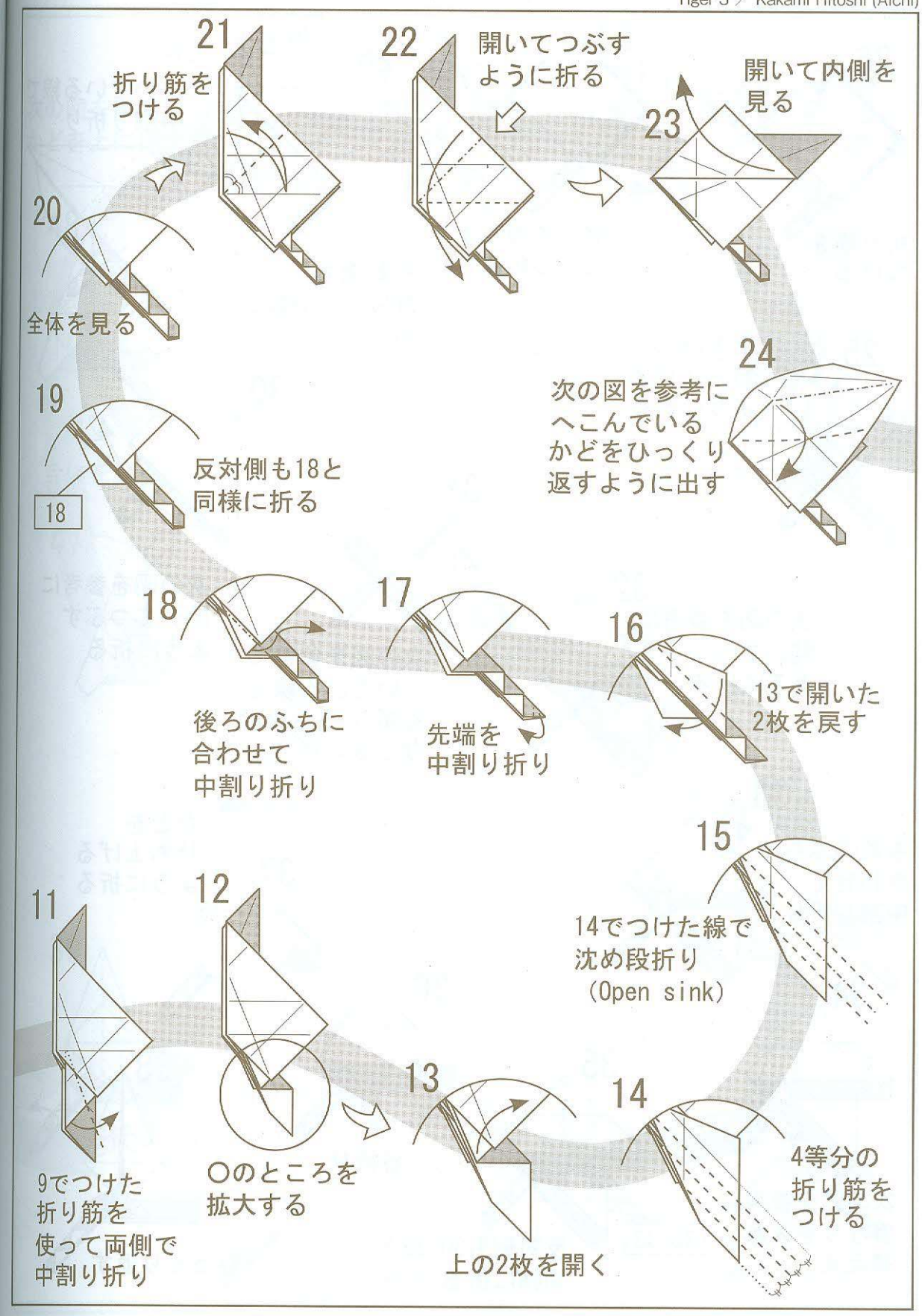


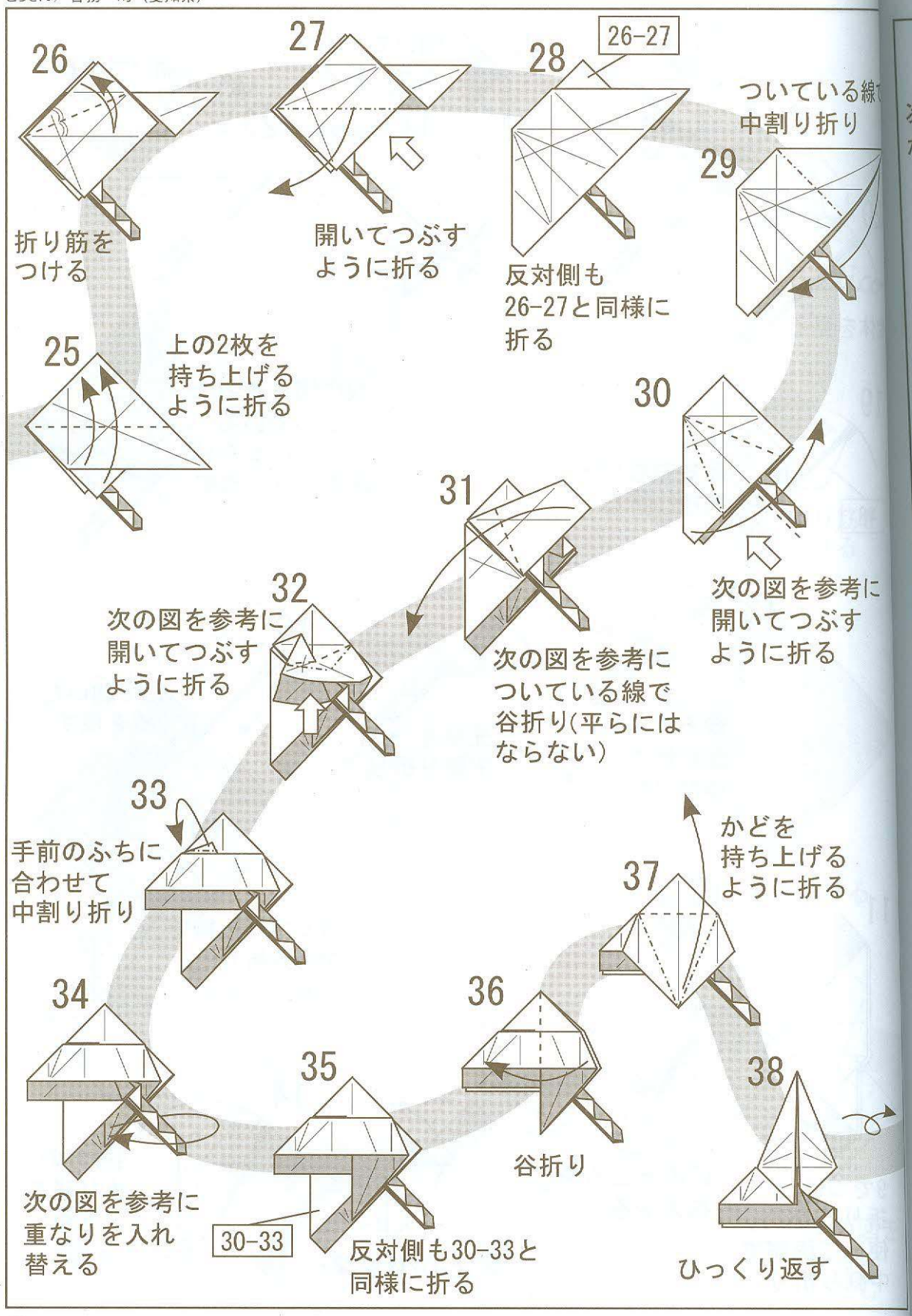


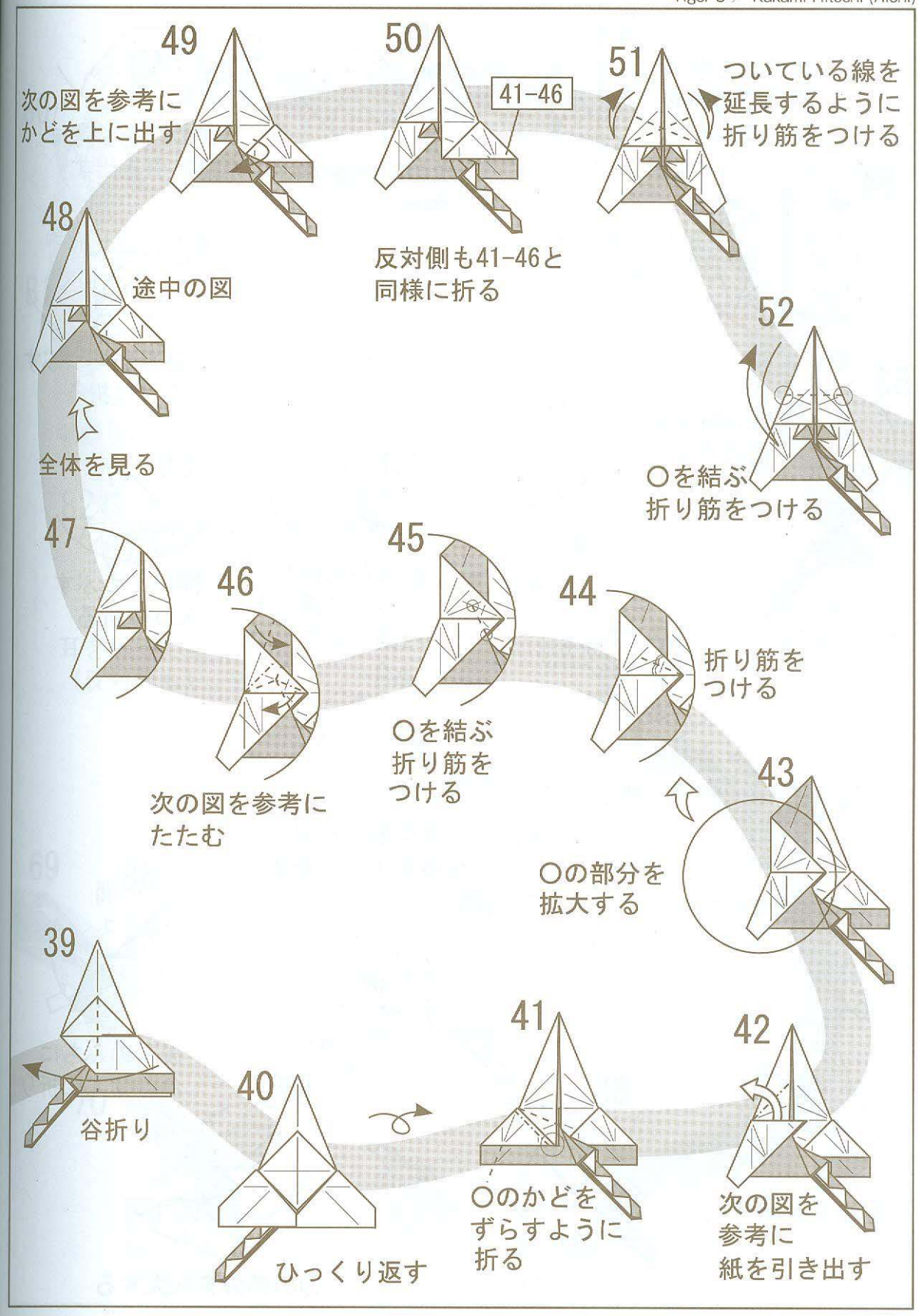


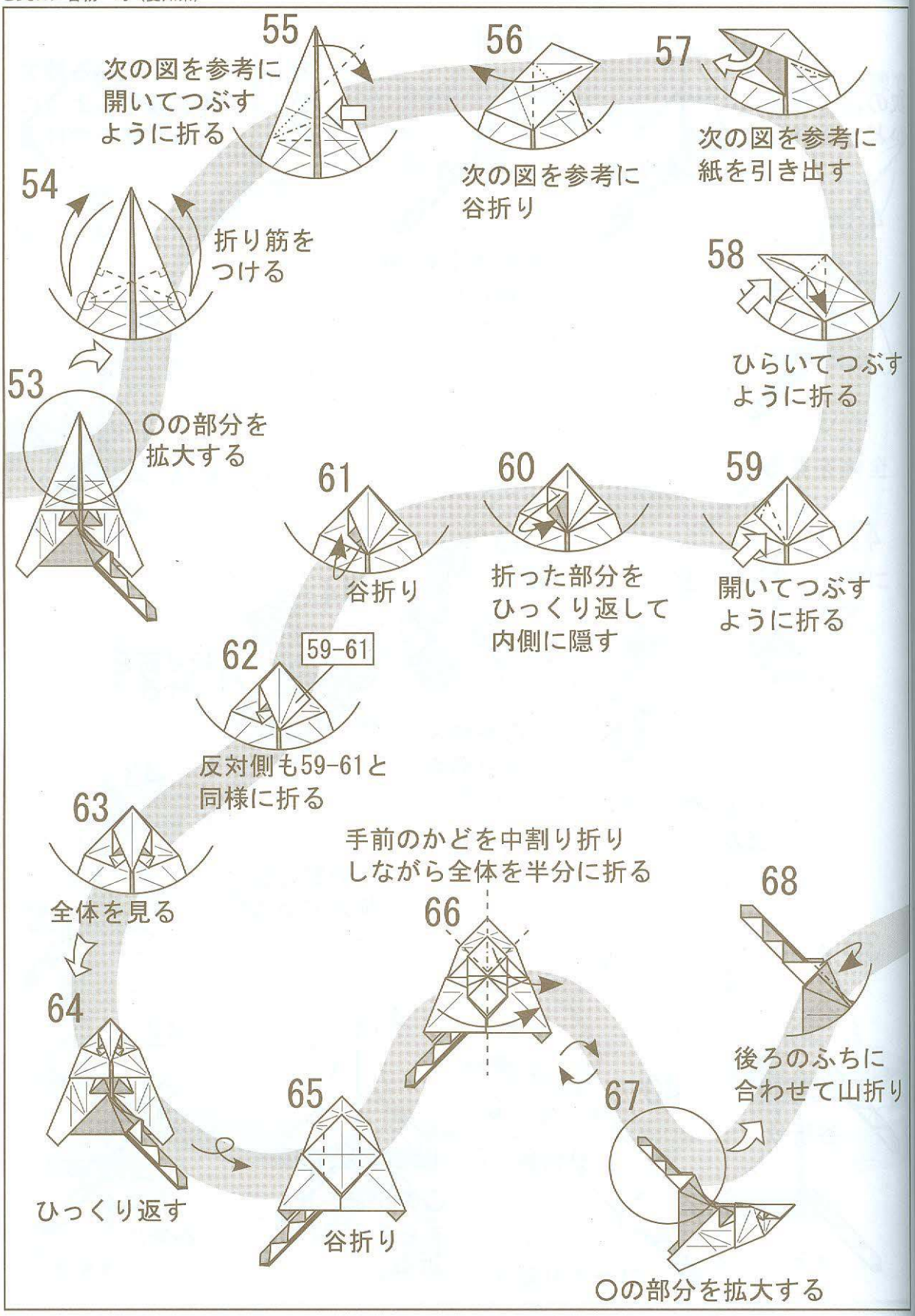


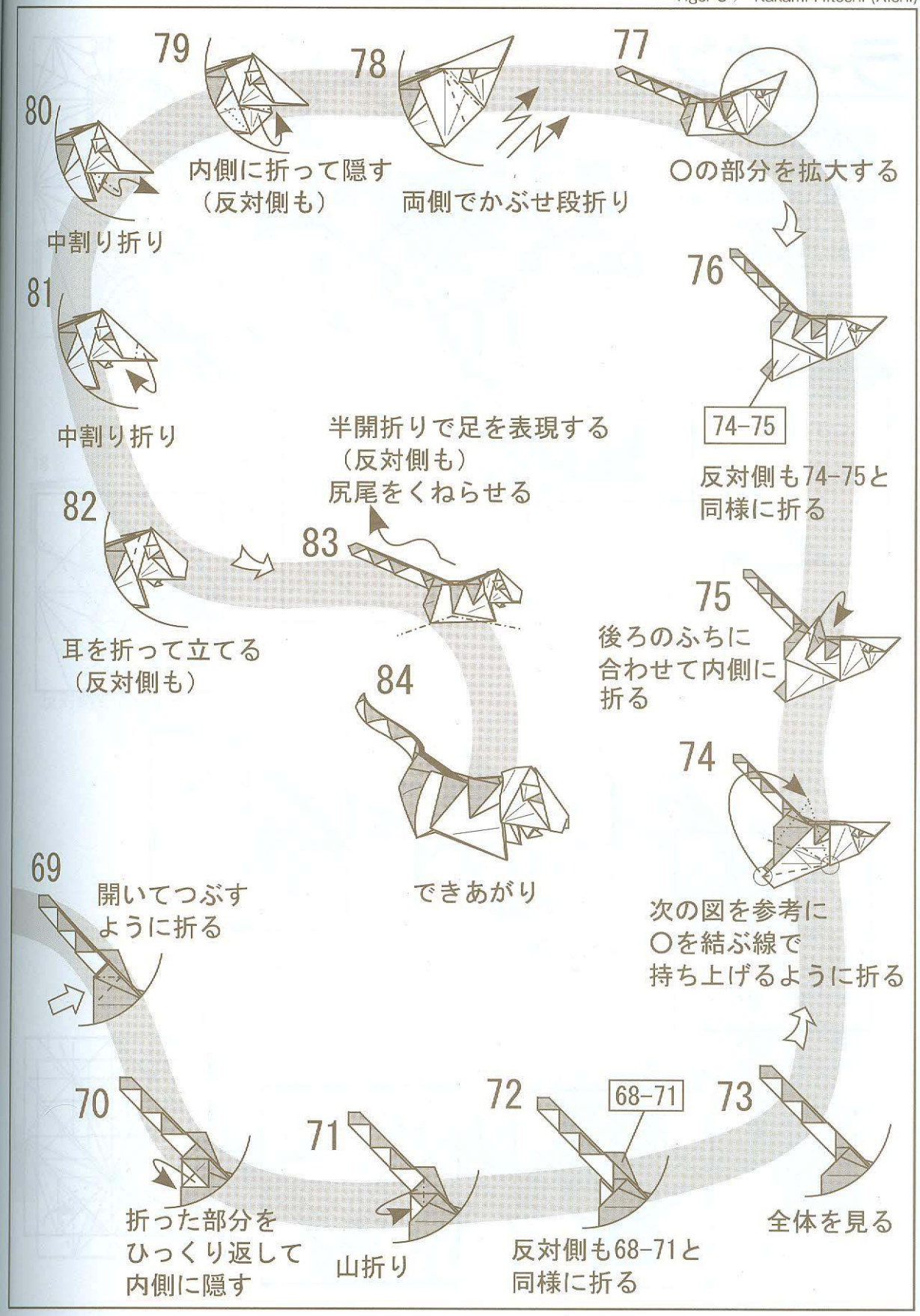



21
折り筋を
つける
22
開いてつぶす
ように折る
23
開いて内側を
見る
20
全体を見る
24
次の図を参考に
へこんでいる
かどをひっくり
返すように出す
19
18
反対側も18と
同様に折る
18
後ろのふちに
合わせて
中割り折り
17
先端を
中割り折り
16
13で開いた
2枚を戻す
15
14でつけた線で
沈め段折り
(Open sink)
11
9でつけた
折り筋を
使って両側で
中割り折り
12
○のところを
拡大する
13
上の2枚を開く
14
4等分の
折り筋を
つける


26
折り筋をつける
27
開いてつぶすように折る
28
26-27
反対側も26-27と同様に折る
ついている線で中割り折り
29
25
上の2枚を持ち上げるように折る
30
次の図を参考に開いてつぶすように折る
31
次の図を参考についている線で谷折り(平らにはならない)
32
次の図を参考に開いてつぶすように折る
33
手前のふちに合わせて中割り折り
37
かどを持ち上げるように折る
34
次の図を参考に重なりを入れ替える
35
30-33
反対側も30-33と同様に折る
36
谷折り
38
ひっくり返す

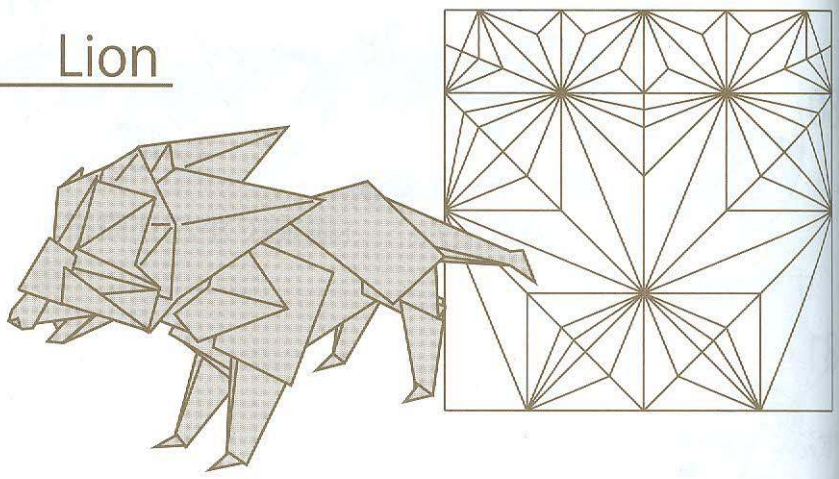

49
次の図を参考に
かどを上に出す
50
41-46
反対側も41-46と
同様に折る
51
ついている線を
延長するように
折り筋をつける
48
途中の図
全体を見る
52
○を結ぶ
折り筋をつける
47
46
次の図を参考に
たたむ
45
○を結ぶ
折り筋を
つける
44
折り筋を
つける
43
○の部分を
拡大する
39
谷折り
40
ひっくり返す
41
○のかどを
ずらすように
折る
42
次の図を
参考に
紙を引き出す


55
次の図を参考に
開いてつぶす
ように折る
56
次の図を参考に
谷折り
57
次の図を参考に
紙を引き出す
54
折り筋を
つける
58
ひらいてつぶす
ように折る
53
○の部分を
拡大する
61
谷折り
60
折った部分を
ひっくり返して
内側に隠す
59
開いてつぶす
ように折る
62
59-61
反対側も59-61と
同様に折る
63
全体を見る
手前のかどを中割り折り
しながら全体を半分に折る
66
68
64
ひっくり返す
65
谷折り
67
後ろのふちに
合わせて山折り
○の部分を拡大する


79
内側に折って隠す
（反対側も）
78
両側でかぶせ段折り
77
〇の部分を拡大する
80
中割り折り
76
74-75
反対側も74-75と
同様に折る
81
中割り折り
半開折りで足を表現する
（反対側も）
尻尾をくねらせる
82
83
耳を折って立てる
（反対側も）
75
後ろのふちに
合わせて内側に
折る
84
できあがり
74
次の図を参考に
〇を結ぶ線で
持ち上げるように折る
69
開いてつぶす
ように折る
70
折った部分を
ひっくり返して
内側に隠す
71
山折り
72
68-71
反対側も68-71と
同様に折る
73
全体を見る

ライオン Lion

創作/作図:村木厚紀
Model & Diagrams
by Atsunori Muraki
創作:2008/x/x
作図:2012/3/x



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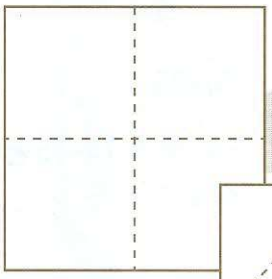

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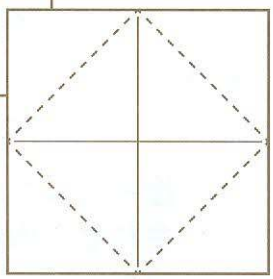

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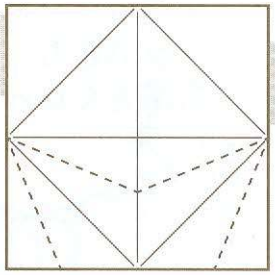

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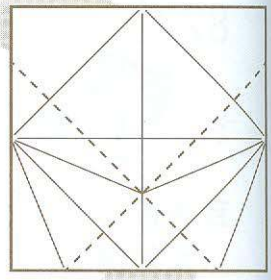

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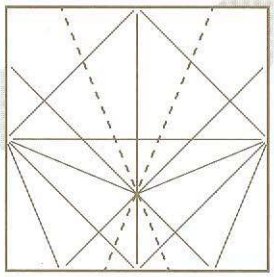

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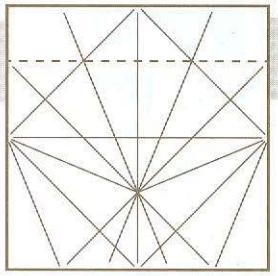

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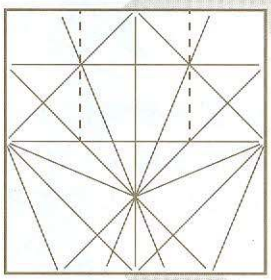

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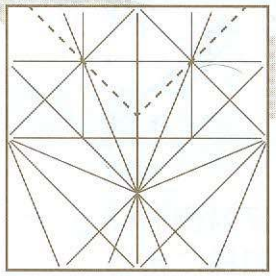

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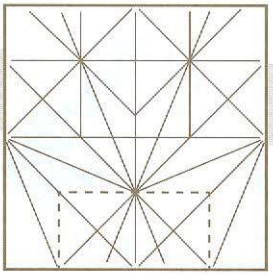

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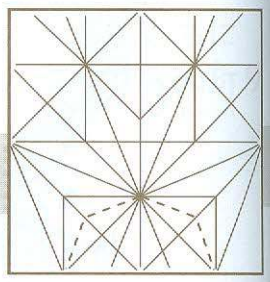
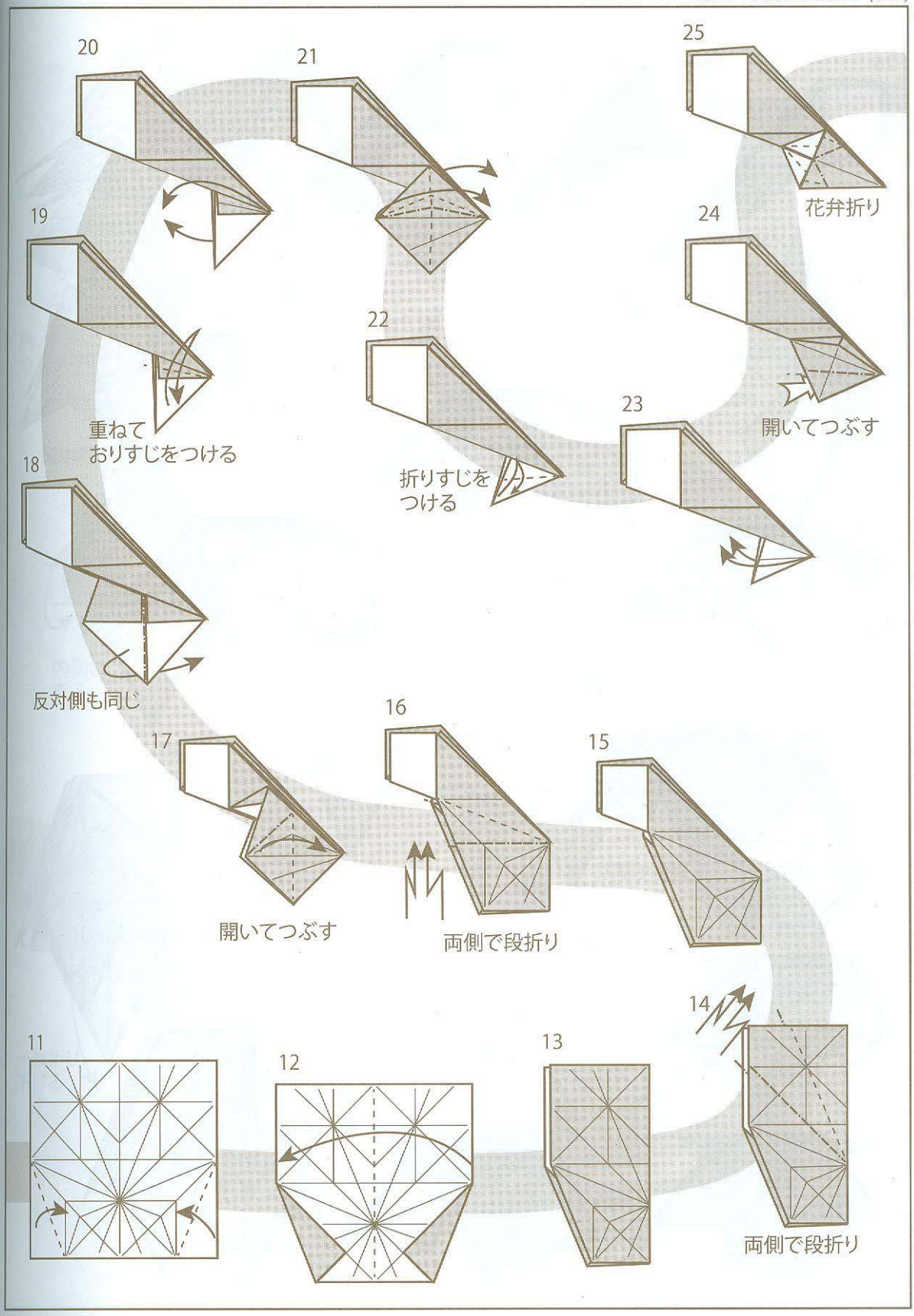
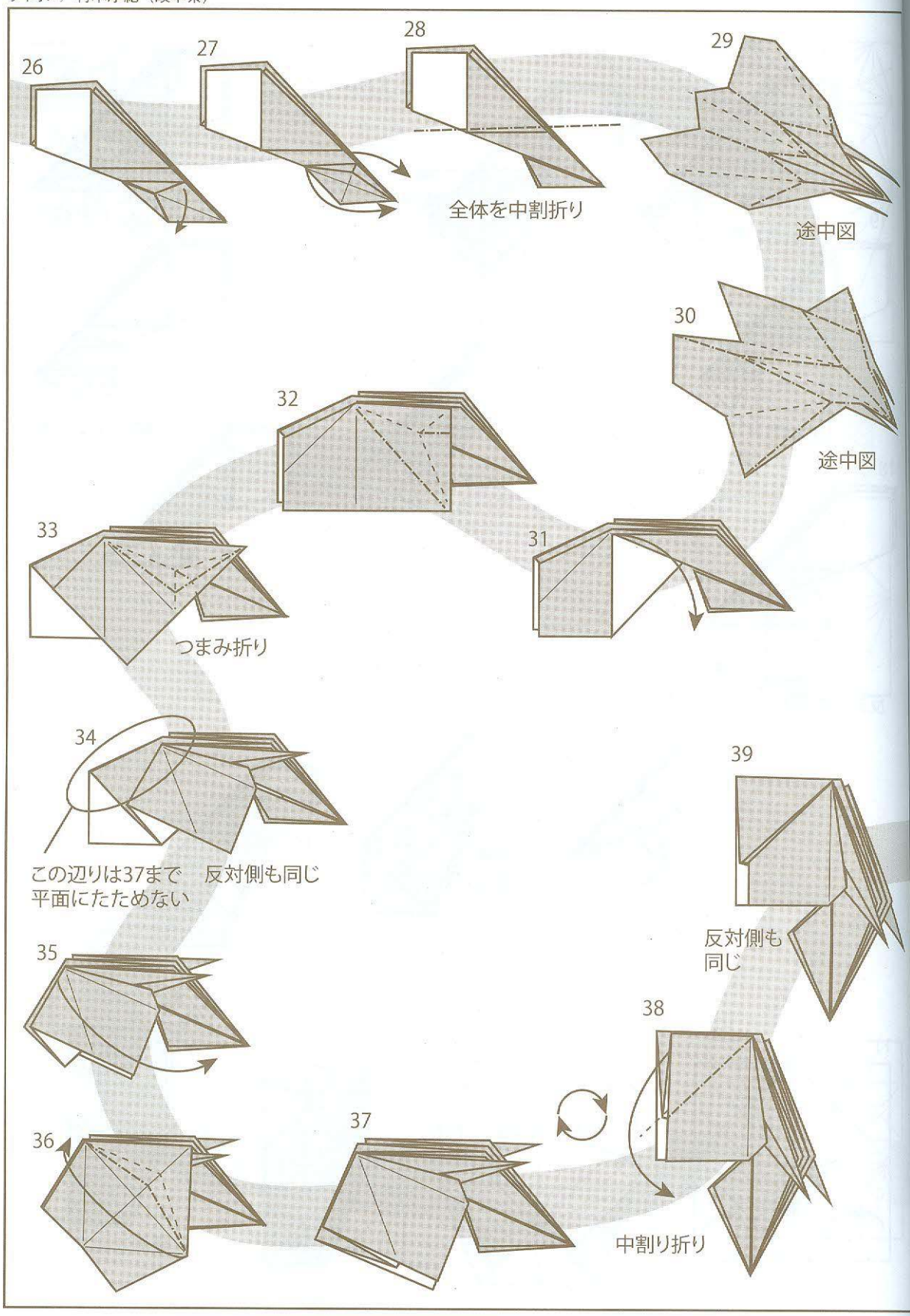
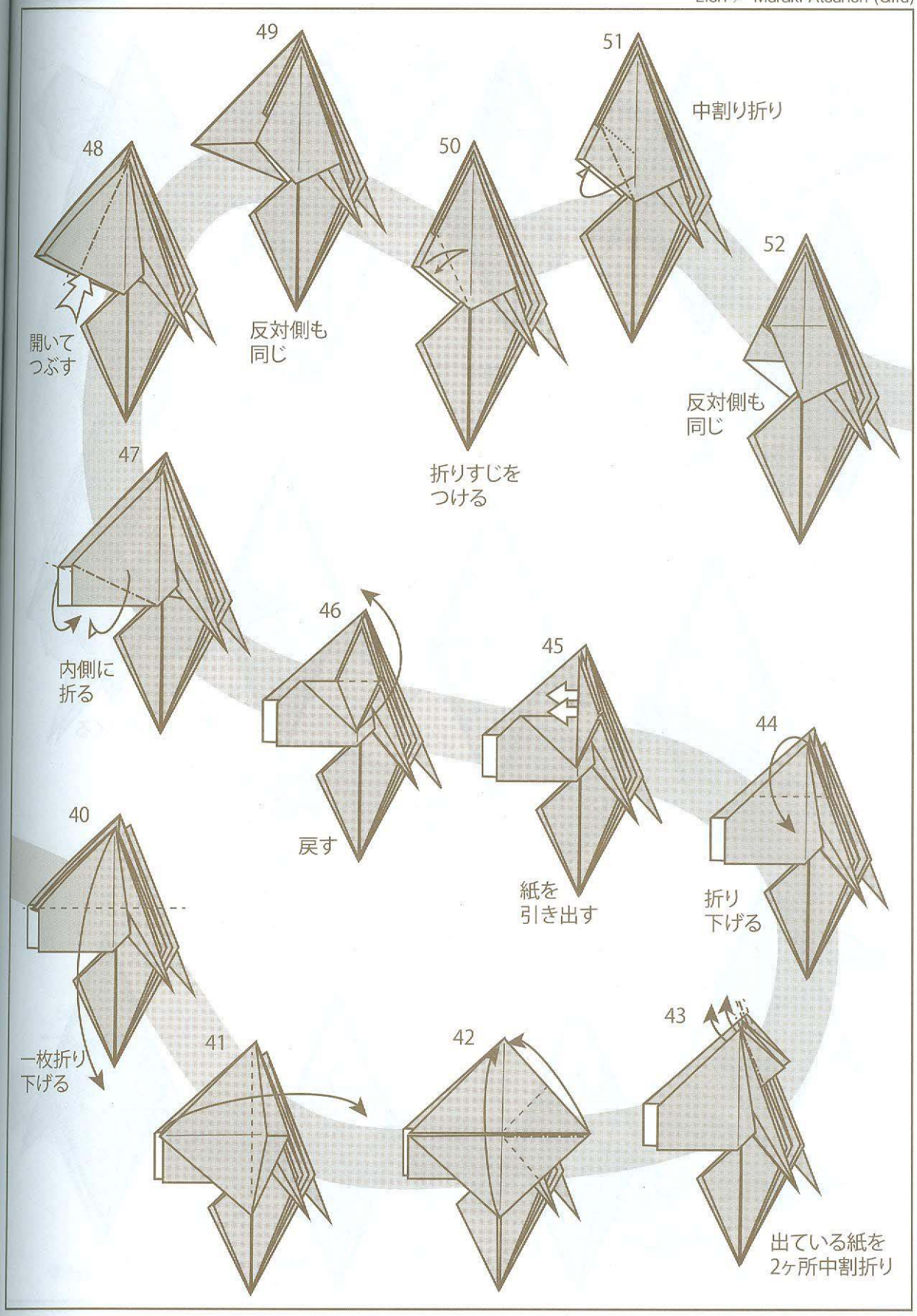
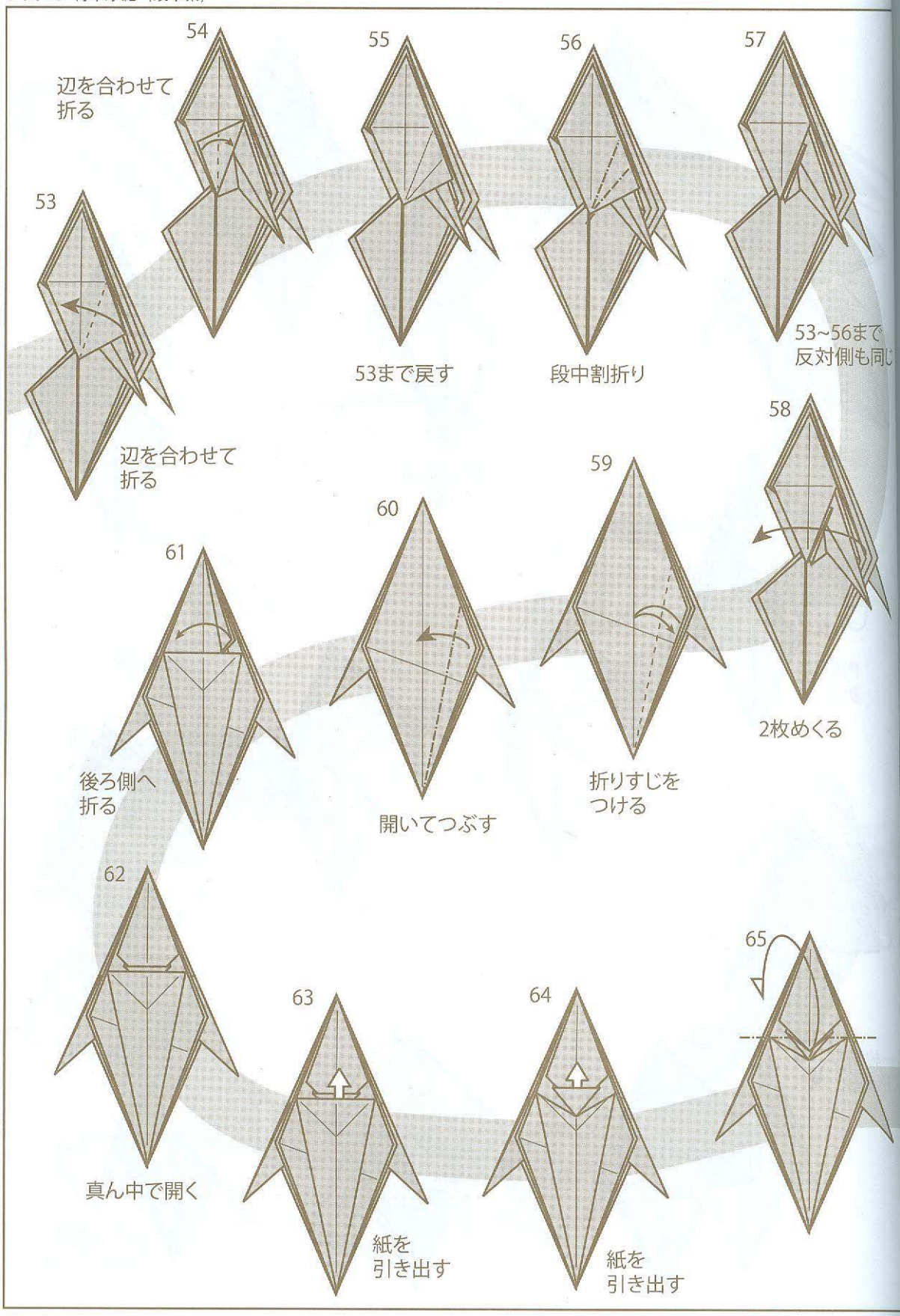


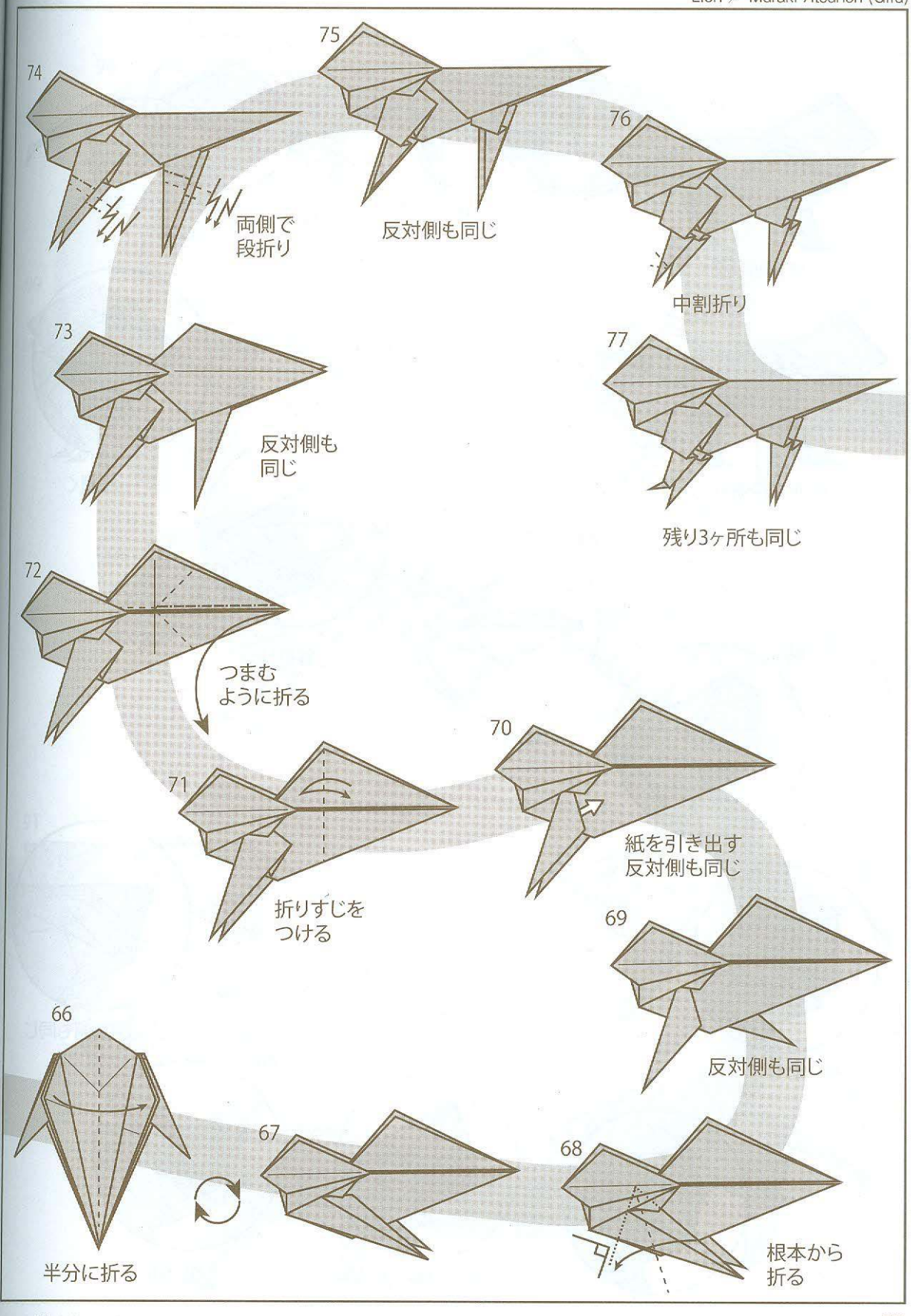

20
21
25
花弁折り
19
24
22
重ねて
おりすじをつける
23
開いてつぶす
折りすじを
つける
18
反対側も同じ
16
17
15
開いてつぶす
両側で段折り
14
11
12
13
両側で段折り

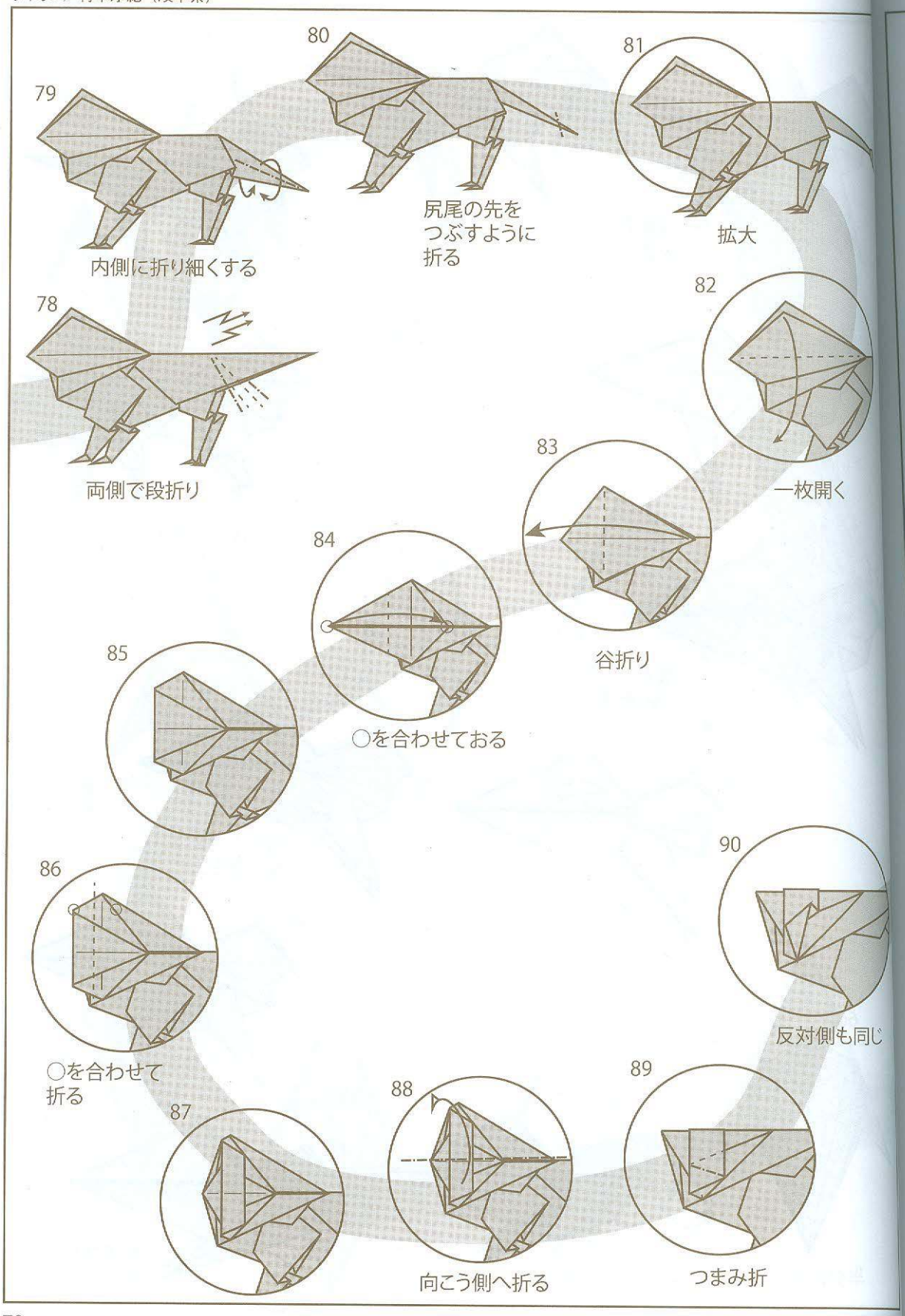
ライオン／村木厚紀（岐阜県）

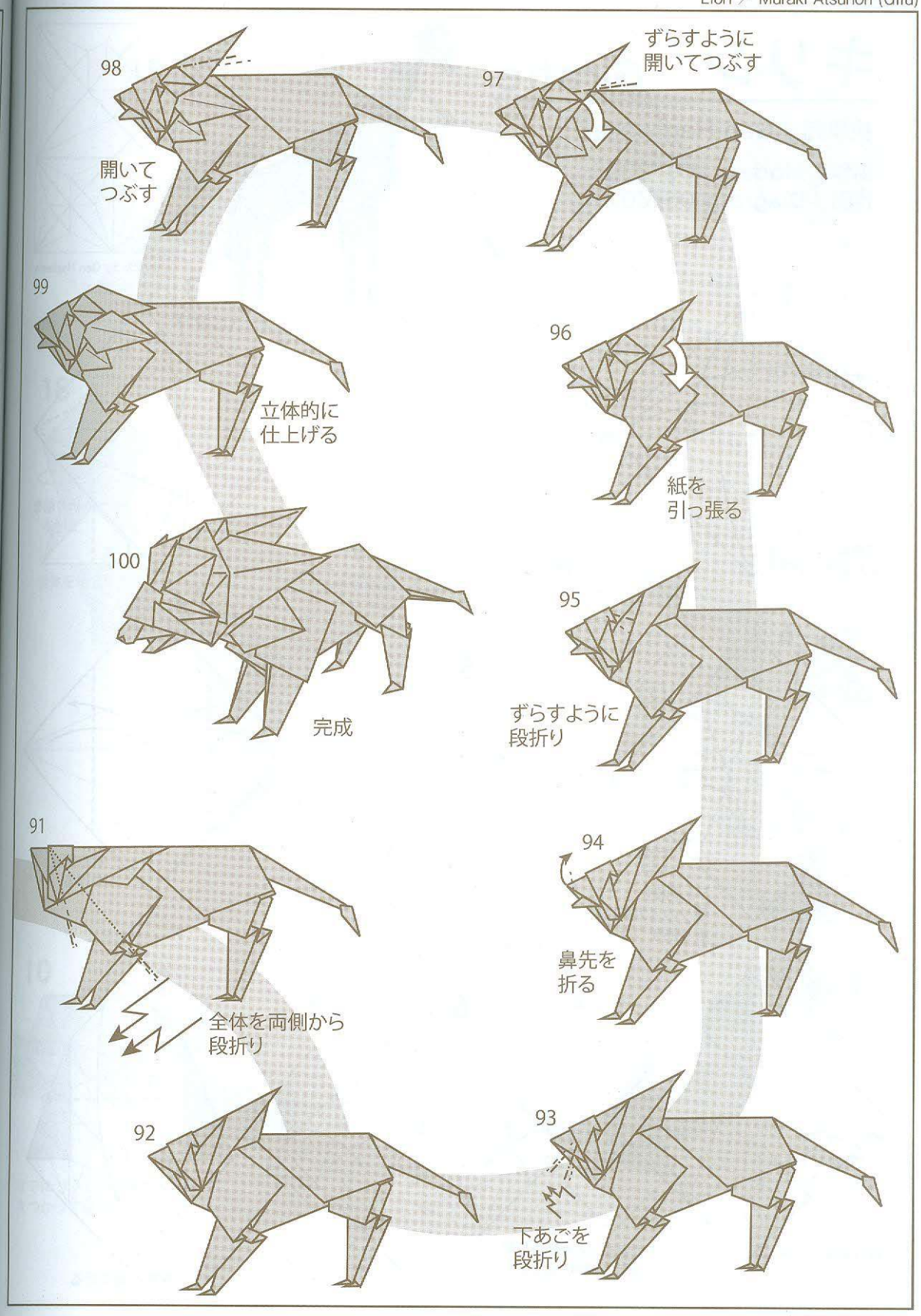



49
51
中割り折り
48
50
52
開いて
つぶす
反対側も
同じ
反対側も
同じ
折りすじを
つける
47
46
45
44
内側に
折る
戻す
紙を
引き出す
折り
下げる
40
43
41
42
一枚折り
下げる
出ている紙を
2ヶ所中割折り


53
辺を合わせて
折る
54
辺を合わせて
折る
55
53まで戻す
56
段中割折り
57
53~56まで
反対側も同じ
58
2枚めくる
59
折りすじを
つける
60
開いてつぶす
61
後ろ側へ
折る
62
真ん中で開く
63
紙を
引き出す
64
紙を
引き出す
65


74
両側で
段折り
75
反対側も同じ
76
中割折り
77
残り3ヶ所も同じ
73
反対側も
同じ
72
つまむ
ように折る
71
折りすじを
つける
70
紙を引き出す
反対側も同じ
69
反対側も同じ
66
半分に折る
67
68
根本から
折る

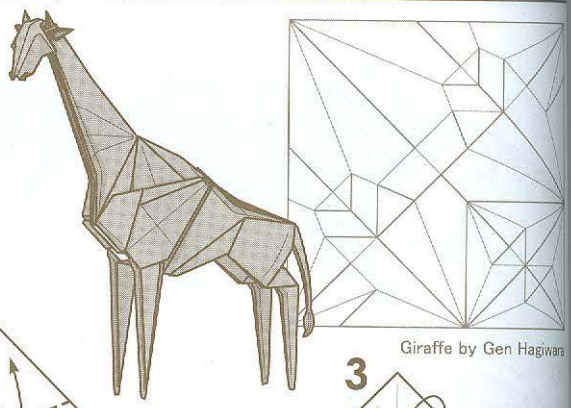

79
内側に折り細くする
80
尻尾の先を
つぶすように
折る
81
拡大
82
一枚開く
83
谷折り
84
○を合わせておる
85
86
○を合わせて
折る
87
88
向こう側へ折る
89
つまみ折
90
反対側も同じ
78
両側で段折り


98
開いて
つぶす
97
ずらすように
開いてつぶす
99
立体的に
仕上げる
96
紙を
引っ張る
100
完成
95
ずらすように
段折り
91
全体を両側から
段折り
94
鼻先を
折る
92
93
下あごを
段折り

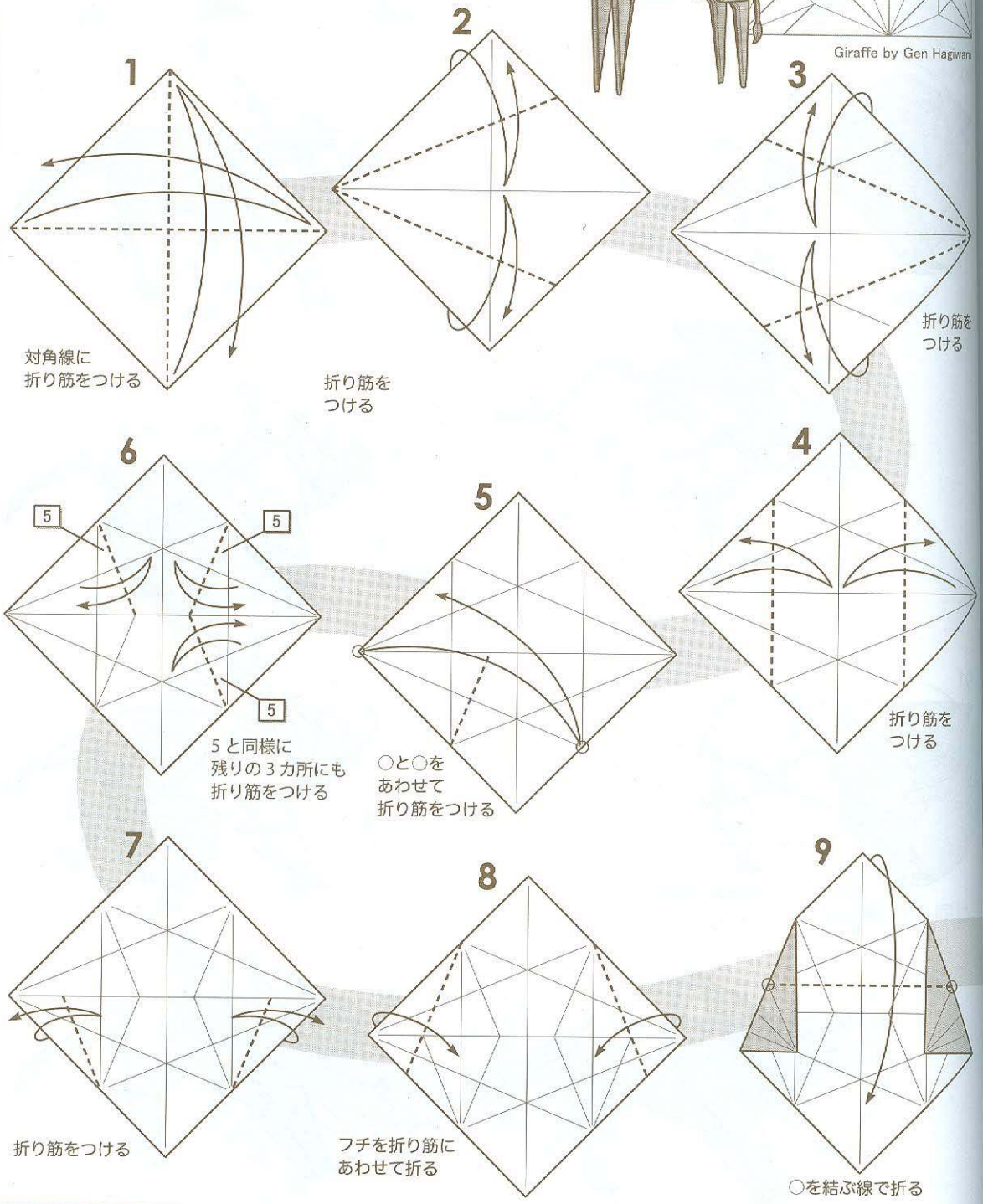
キリン　Giraffe

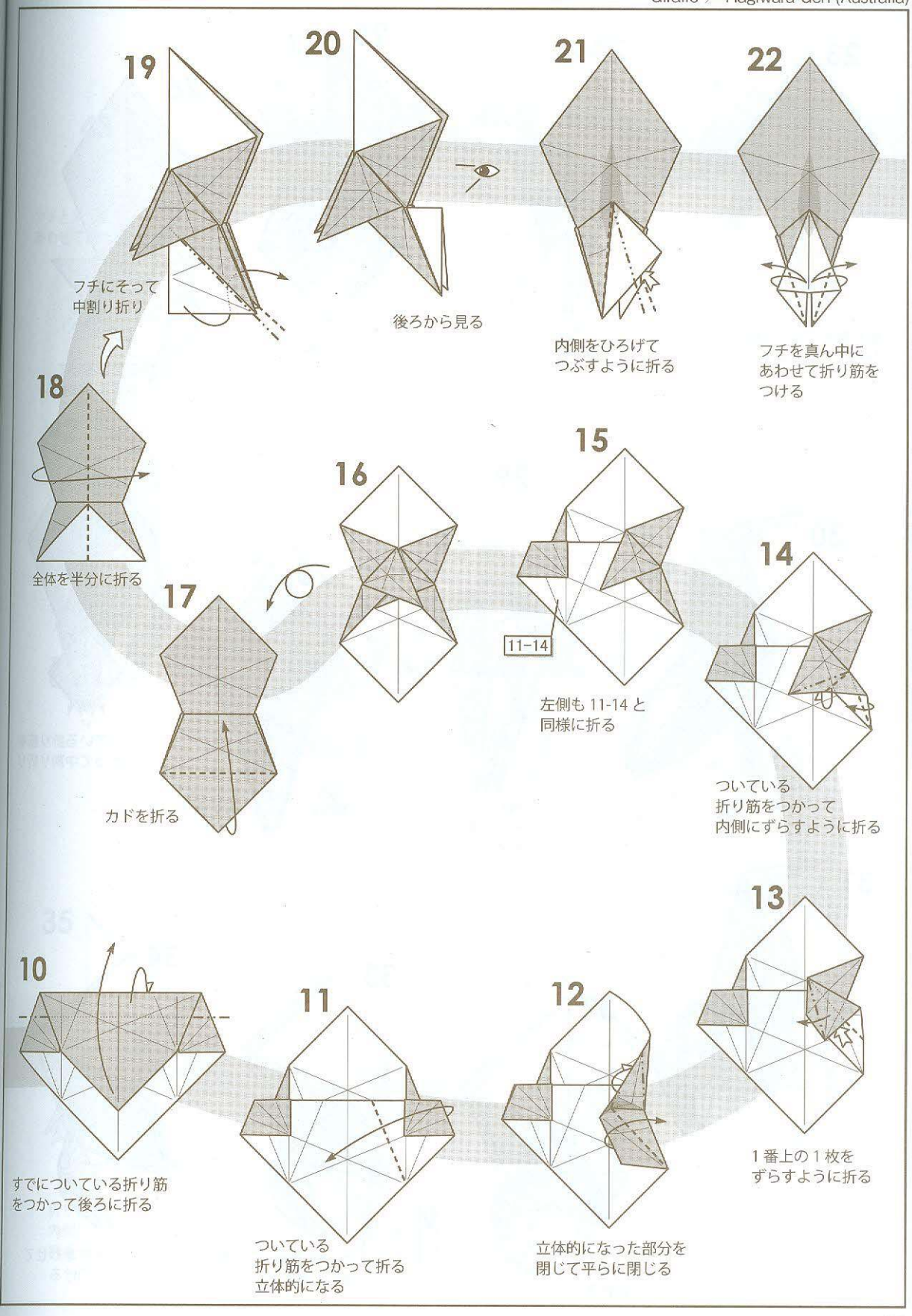
萩原元 / Gen Hagiwara

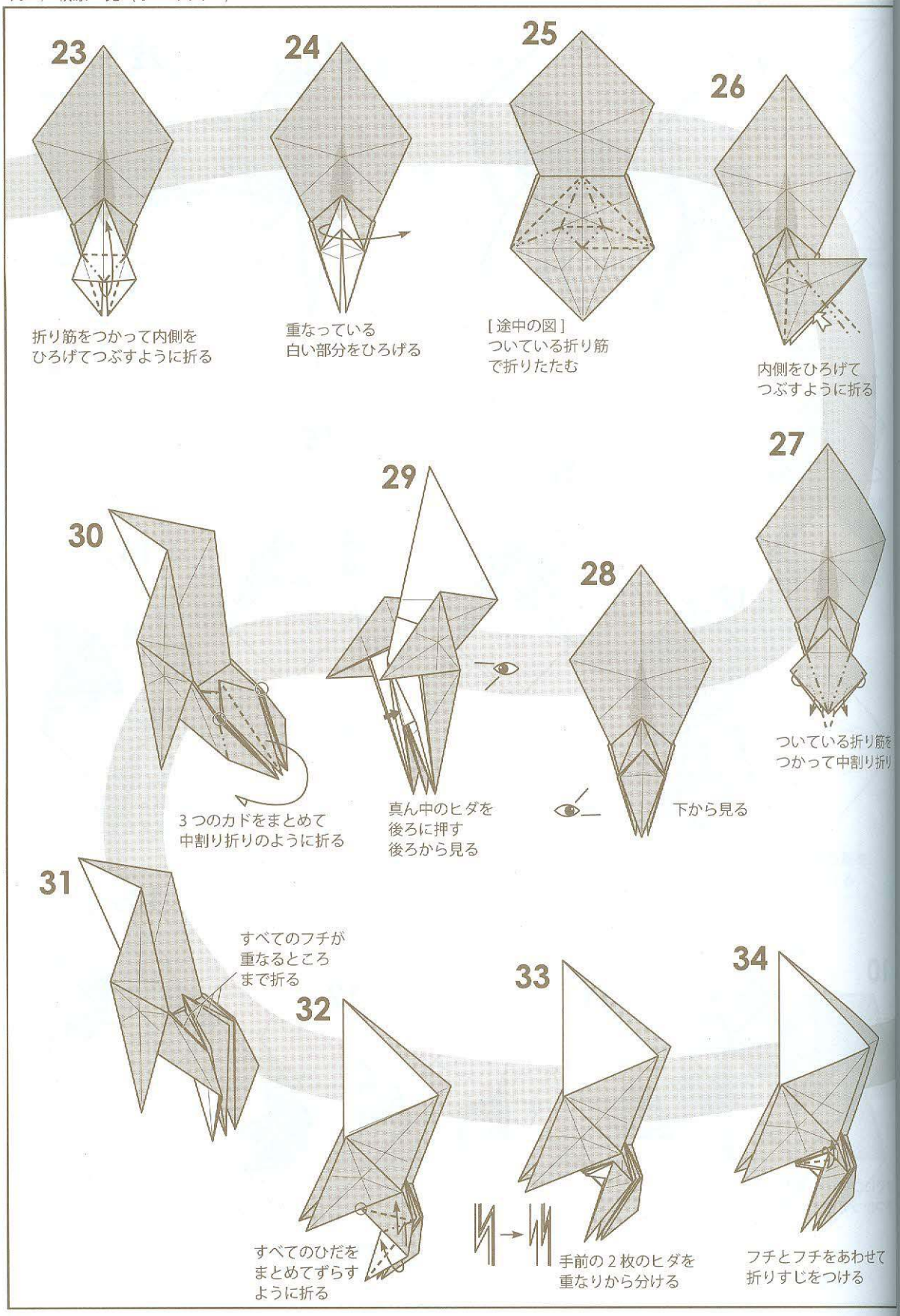
創作 / Model　05/2009
作図 / Diagram 05/2011

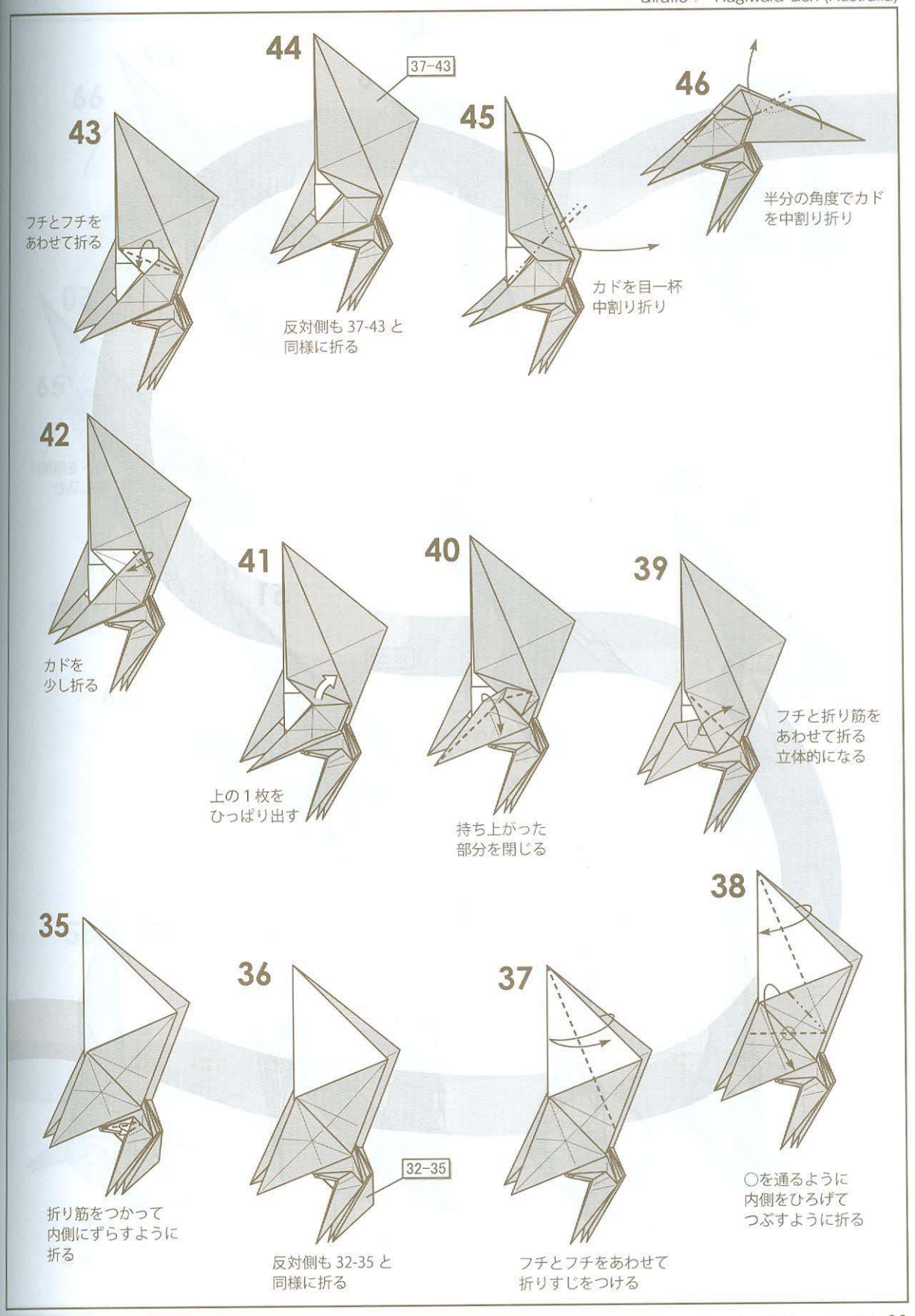


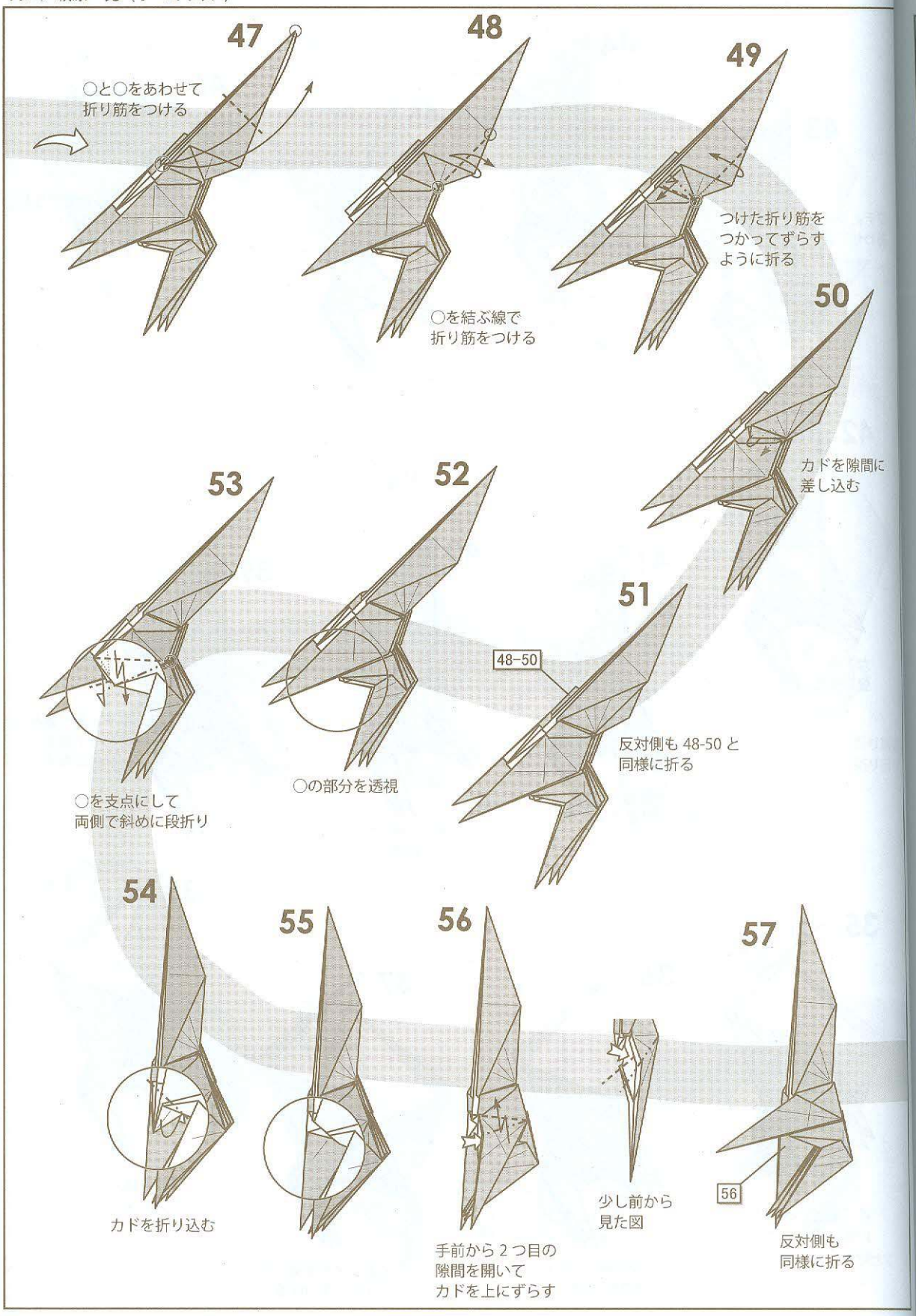
Giraffe by Gen Hagiwara

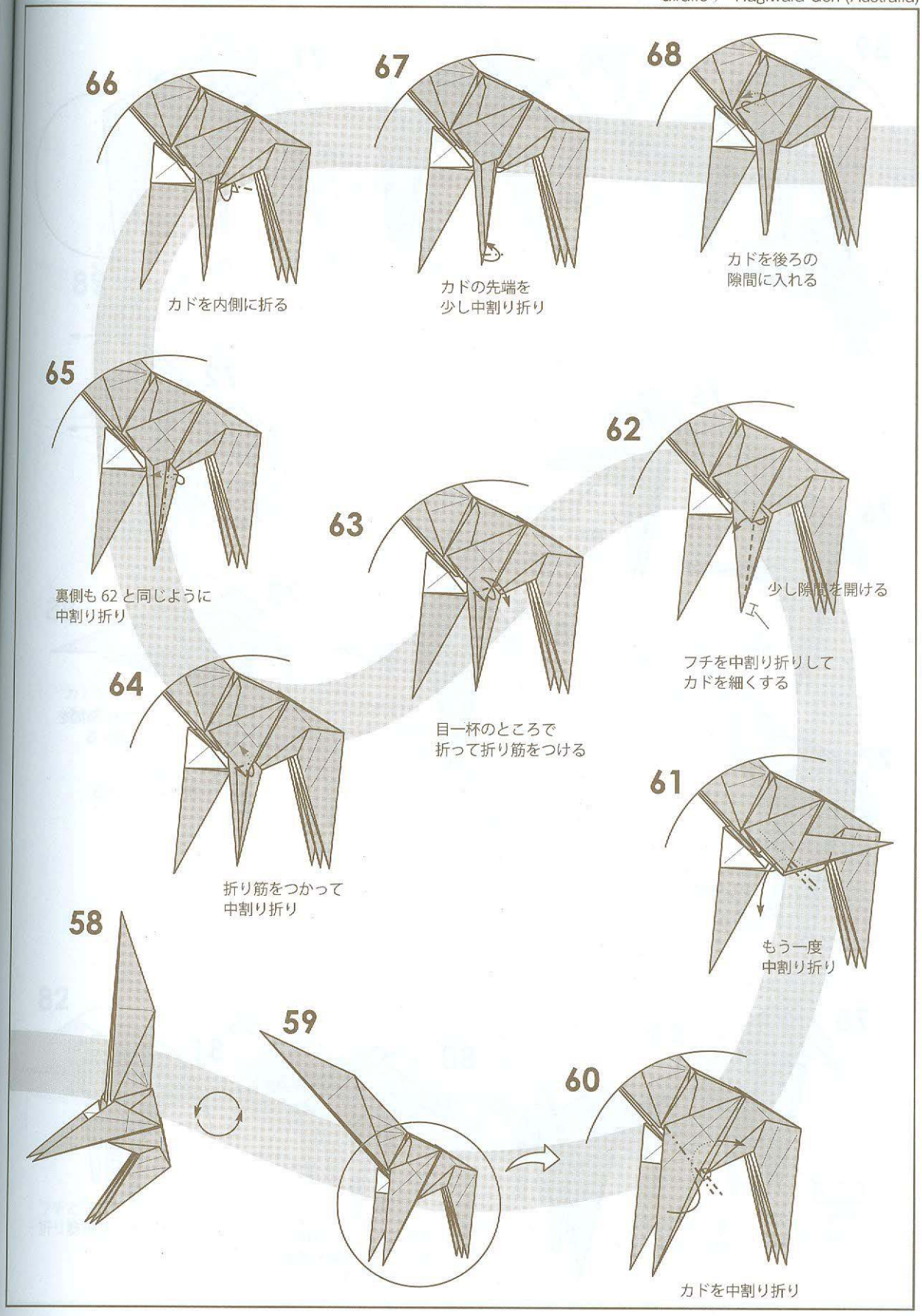


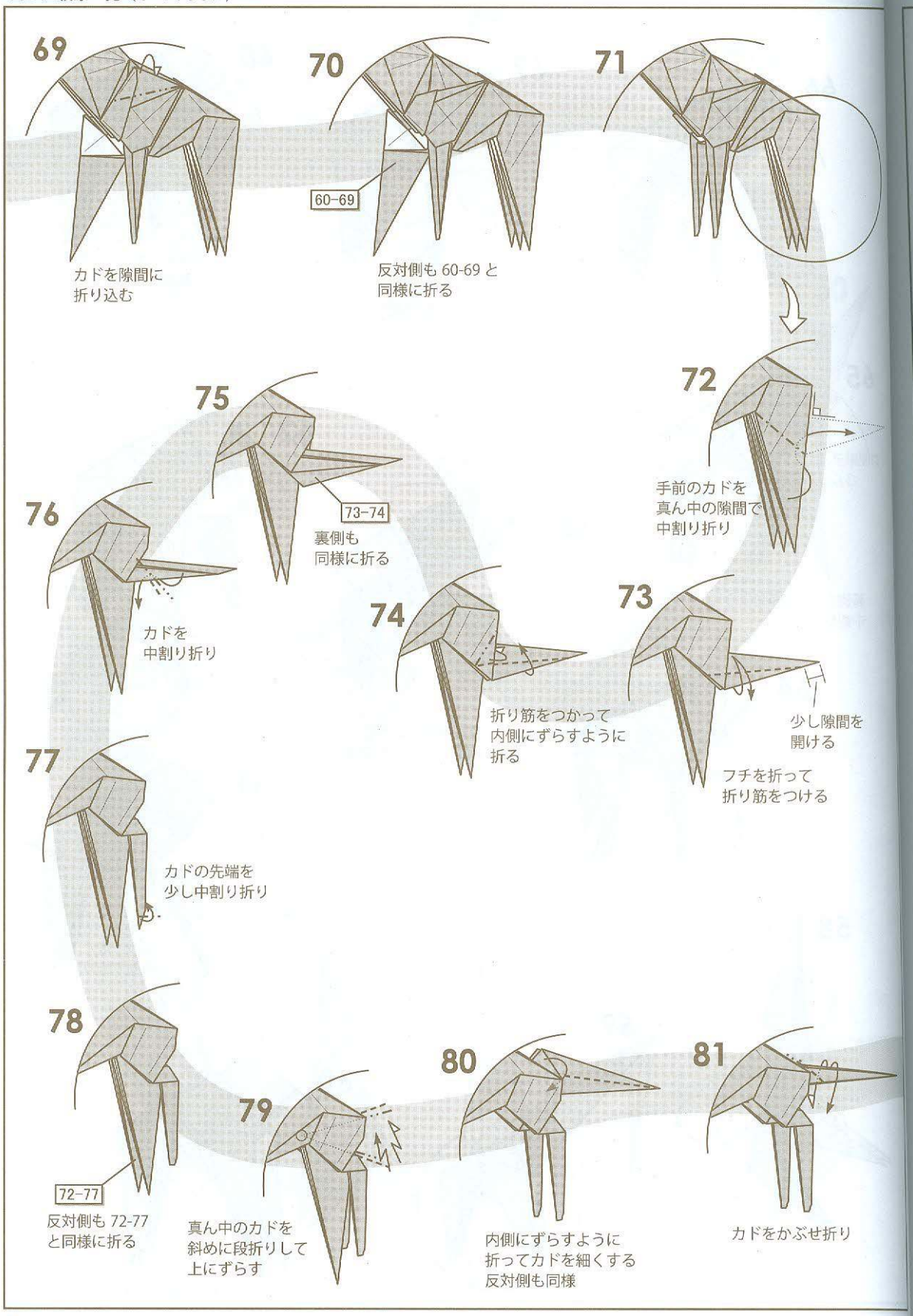

19
フチにそって
中割り折り
20
後ろから見る
21
内側をひろげて
つぶすように折る
22
フチを真ん中に
あわせて折り筋を
つける
18
全体を半分に折る
17
カドを折る
16
15
11-14
左側も 11-14 と
同様に折る
14
ついている
折り筋をつかって
内側にずらすように折る
13
1 番上の 1 枚を
ずらすように折る
12
立体的になった部分を
閉じて平らに閉じる
11
ついている
折り筋をつかって折る
立体的になる
10
すでについている折り筋
をつかって後ろに折る

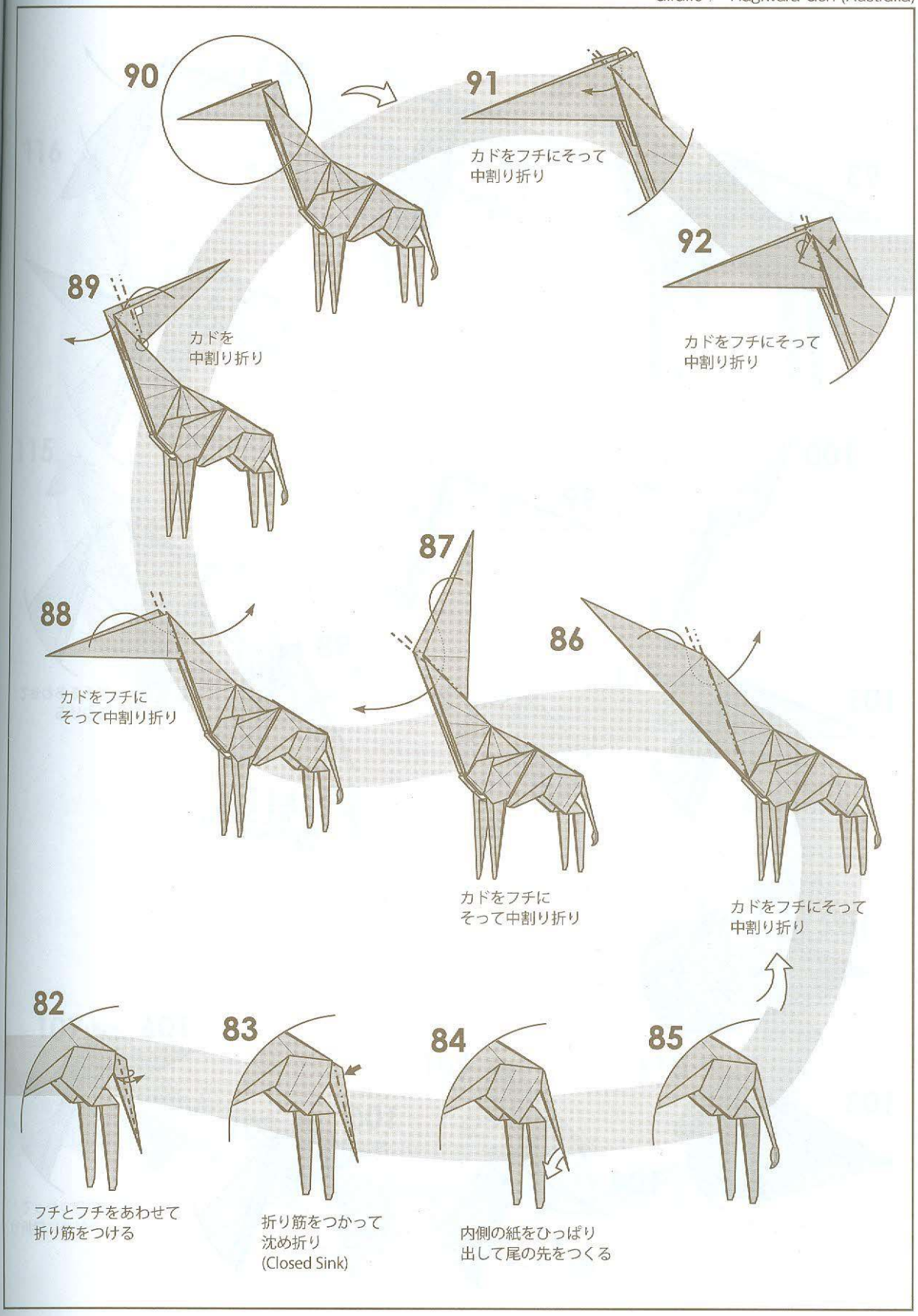

23
折り筋をつかって内側を
ひろげてつぶすように折る
24
重なっている
白い部分をひろげる
25
［途中の図］
ついている折り筋
で折りたたむ
26
内側をひろげて
つぶすように折る
27
ついている折り筋を
つかって中割り折り
28
下から見る
29
真ん中のヒダを
後ろに押す
後ろから見る
30
3つのカドをまとめて
中割り折りのように折る
31
すべてのフチが
重なるところ
まで折る
32
すべてのひだを
まとめてずらす
ように折る
33
手前の2枚のヒダを
重なりから分ける
34
フチとフチをあわせて
折りすじをつける

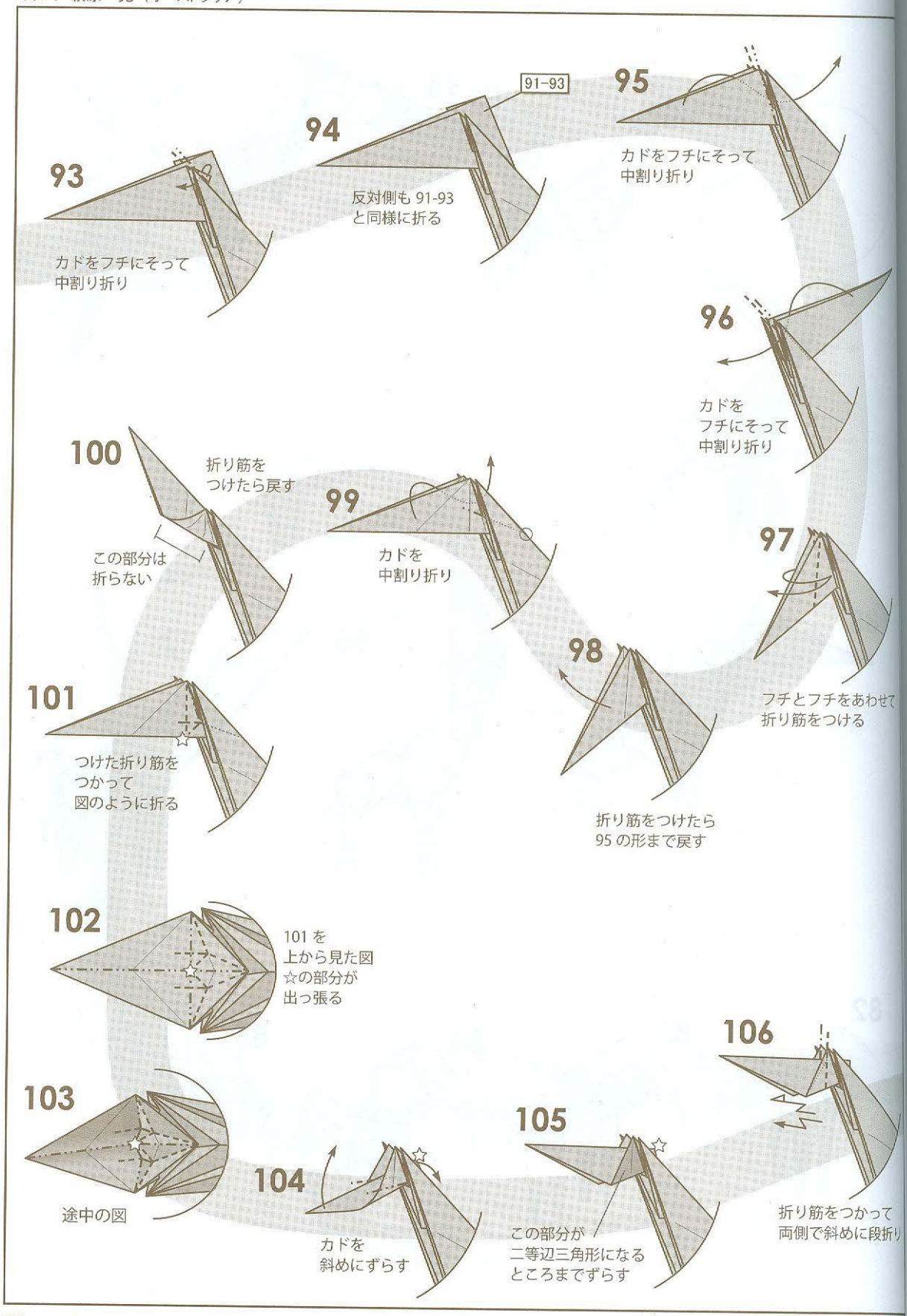

43
フチとフチを
あわせて折る
44
37-43
反対側も 37-43 と
同様に折る
45
カドを目一杯
中割り折り
46
半分の角度でカド
を中割り折り
42
カドを
少し折る
41
上の 1 枚を
ひっぱり出す
40
持ち上がった
部分を閉じる
39
フチと折り筋を
あわせて折る
立体的になる
35
折り筋をつかって
内側にずらすように
折る
36
32-35
反対側も 32-35 と
同様に折る
37
フチとフチをあわせて
折りすじをつける
38
○を通るように
内側をひろげて
つぶすように折る

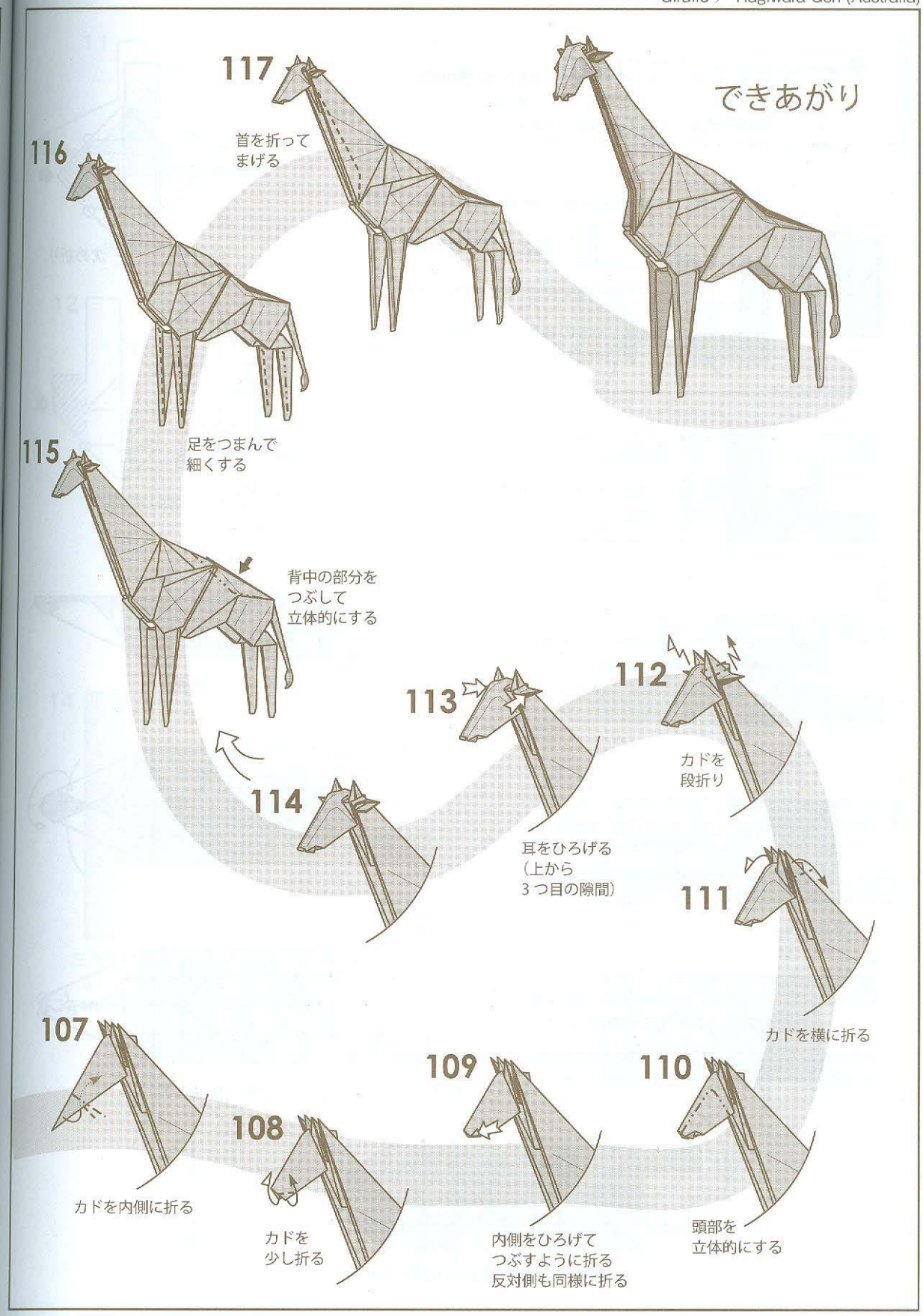

47
○と○をあわせて
折り筋をつける
48
○を結ぶ線で
折り筋をつける
49
つけた折り筋を
つかってずらす
ように折る
50
カドを隙間に
差し込む
51
48-50
反対側も 48-50 と
同様に折る
52
○の部分を透視
53
○を支点にして
両側で斜めに段折り
54
カドを折り込む
55
56
手前から 2 つ目の
隙間を開いて
カドを上にずらす
少し前から
見た図
57
56
反対側も
同様に折る


66
カドを内側に折る
67
カドの先端を
少し中割り折り
68
カドを後ろの
隙間に入れる
65
裏側も 62 と同じように
中割り折り
62
少し隙間を開ける
フチを中割り折りして
カドを細くする
63
目一杯のところで
折って折り筋をつける
64
折り筋をつかって
中割り折り
61
もう一度
中割り折り
58
59
60
カドを中割り折り


69
カドを隙間に
折り込む
70
60–69
反対側も 60-69 と
同様に折る
71
72
手前のカドを
真ん中の隙間で
中割り折り
73
少し隙間を
開ける
フチを折って
折り筋をつける
74
折り筋をつかって
内側にずらすように
折る
75
73–74
裏側も
同様に折る
76
カドを
中割り折り
77
カドの先端を
少し中割り折り
78
72–77
反対側も 72-77
と同様に折る
79
真ん中のカドを
斜めに段折りして
上にずらす
80
内側にずらすように
折ってカドを細くする
反対側も同様
81
カドをかぶせ折り


90
91
カドをフチにそって
中割り折り
92
カドをフチにそって
中割り折り
89
カドを
中割り折り
87
88
カドをフチに
そって中割り折り
86
カドをフチに
そって中割り折り
カドをフチにそって
中割り折り
82
83
84
85
フチとフチをあわせて
折り筋をつける
折り筋をつかって
沈め折り
(Closed Sink)
内側の紙をひっぱり
出して尾の先をつくる

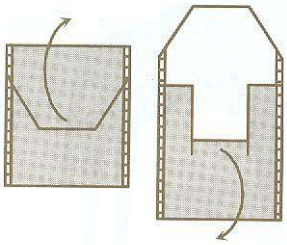

93
カドをフチにそって
中割り折り
94
91-93
反対側も 91-93
と同様に折る
95
カドをフチにそって
中割り折り
96
カドを
フチにそって
中割り折り
97
フチとフチをあわせて
折り筋をつける
98
折り筋をつけたら
95 の形まで戻す
99
カドを
中割り折り
100
折り筋を
つけたら戻す
この部分は
折らない
101
つけた折り筋を
つかって
図のように折る
102
101 を
上から見た図
☆の部分が
出っ張る
103
途中の図
104
カドを
斜めにずらす
105
この部分が
二等辺三角形になる
ところまでずらす
106
折り筋をつかって
両側で斜めに段折り


できあがり
117
首を折って
まげる
116
足をつまんで
細くする
115
背中の部分を
つぶして
立体的にする
114
113
耳をひろげる
（上から
3つ目の隙間）
112
カドを
段折り
111
カドを横に折る
110
頭部を
立体的にする
109
内側をひろげて
つぶすように折る
反対側も同様に折る
108
カドを
少し折る
107
カドを内側に折る

ティーバッグのニワトリ Tea-bag Rooster

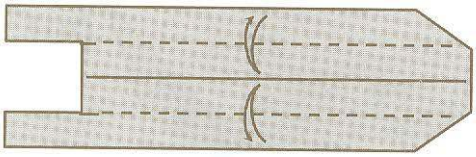
創作：2012/1/17　作図：2012/4/22

小野 友彰（By Tomoaki ONO）

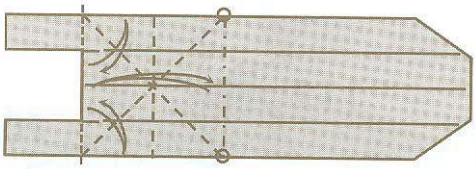


・両サイドの接着部は，綺麗に取り除く。
・切込みの有無にかかわらず折れます。

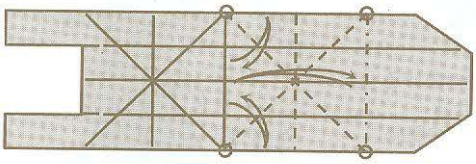
1



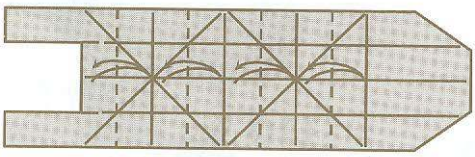
2



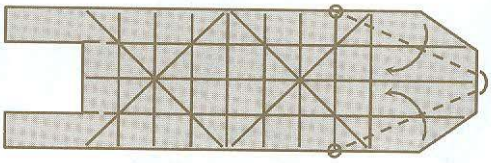
3



4

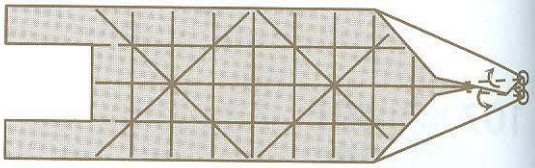


5



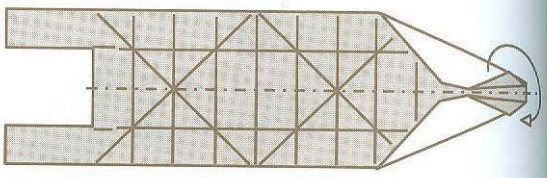
6～7mm程の間を空けて，図の折り筋で谷折り。

6

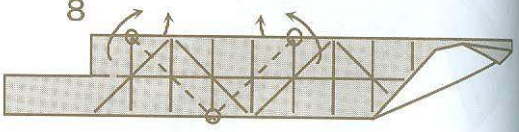


ぐらい折りで対称に折り返す。

7

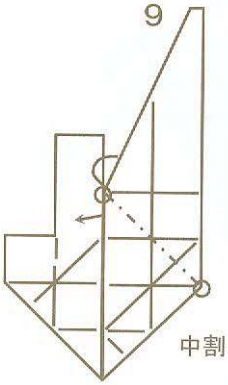


8



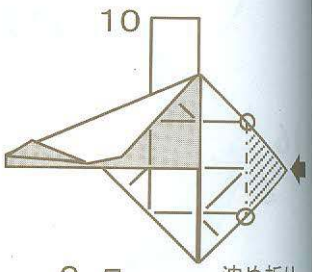
かぶせ折り（2箇所）。

9



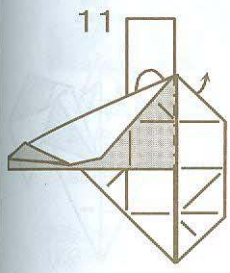
中割り折り。

10



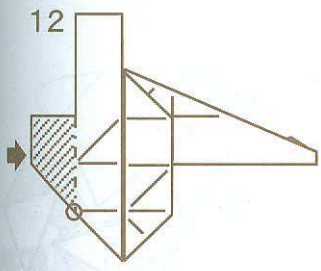
沈め折り。

11



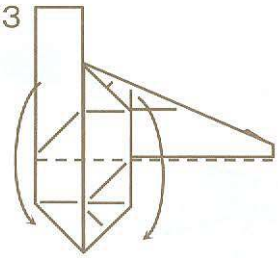
中割り折り。

12



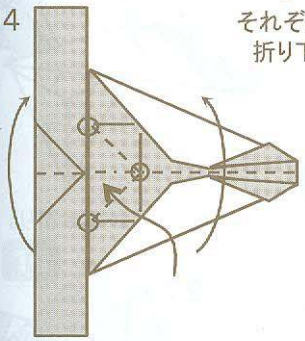
沈め折り。

13



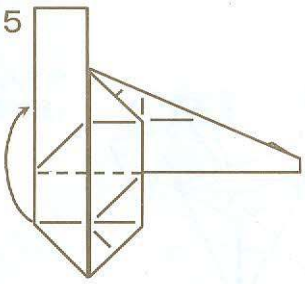
それぞれ一旦
折り下げる。

14



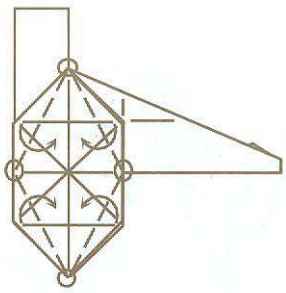
三角形に立ち上げ
ながら元に戻す。

15



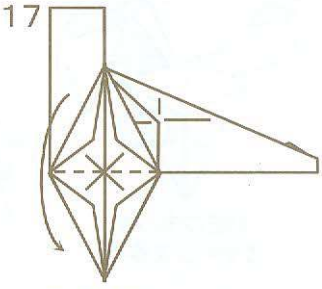
ひだを折り上げる。

16



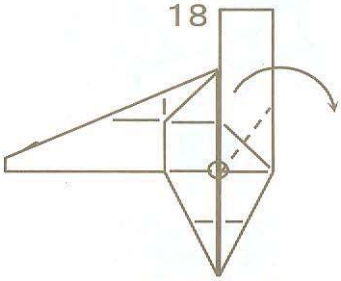
角を内側に折る
（4箇所）。

17



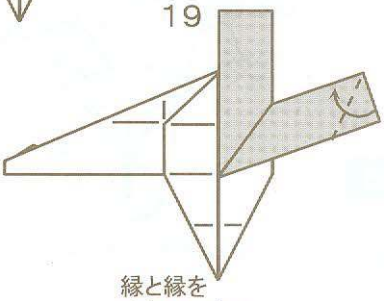
元に戻す。
裏返して次図へ。

18



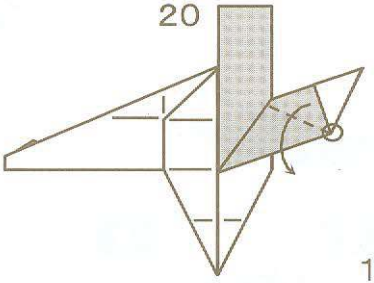
手前の1枚を
斜めに倒す。

19

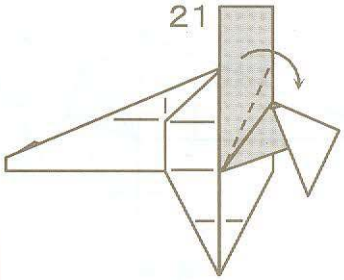


縁と縁を
合わせて折る。

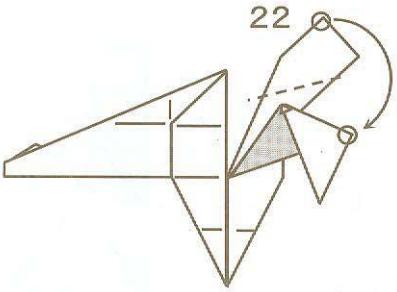
20



21

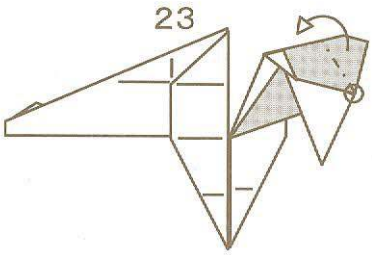


22



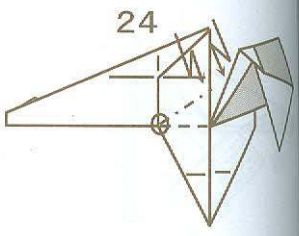
角と角を合わせて
折る。

23



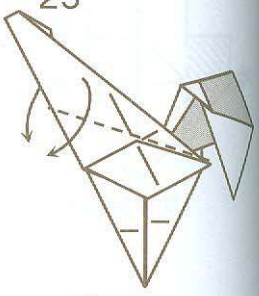
角を始点にしたラインで
後ろ側に折る。

24



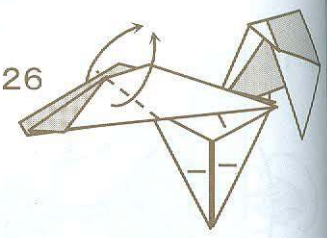
表側と裏側を同時に段折り。
次図も参照。

25



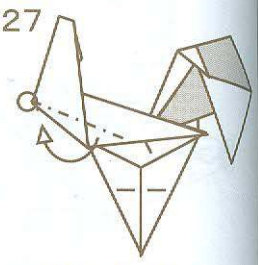
羽根の縁に沿って
かぶせ折り。

26



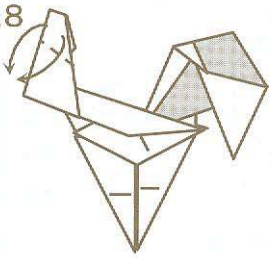
かぶせ折り。

27



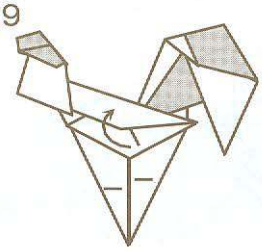
角を内側に折る。
（反対側も同じ）

28



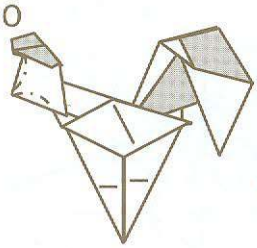
かぶせ折り。

29



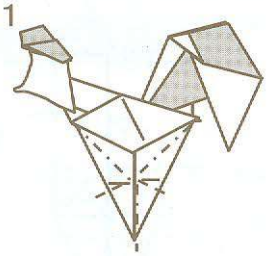
羽を上側に入れ替える。
（反対側も同じ）

30



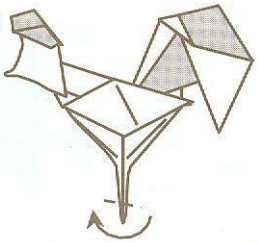
顔をつまんで
クチバシを作る。

31



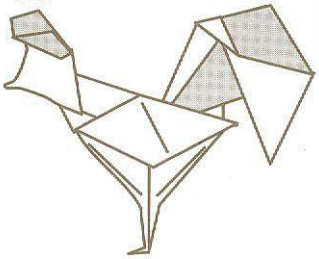
つまんで立体化。
（反対側も同じ）

32



脚の先を前方に折る
（反対側も同じ）。

33



できあがり

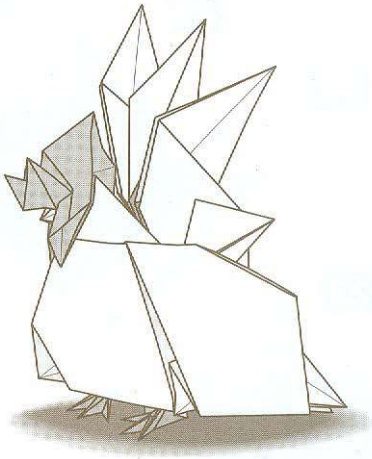
チャボ

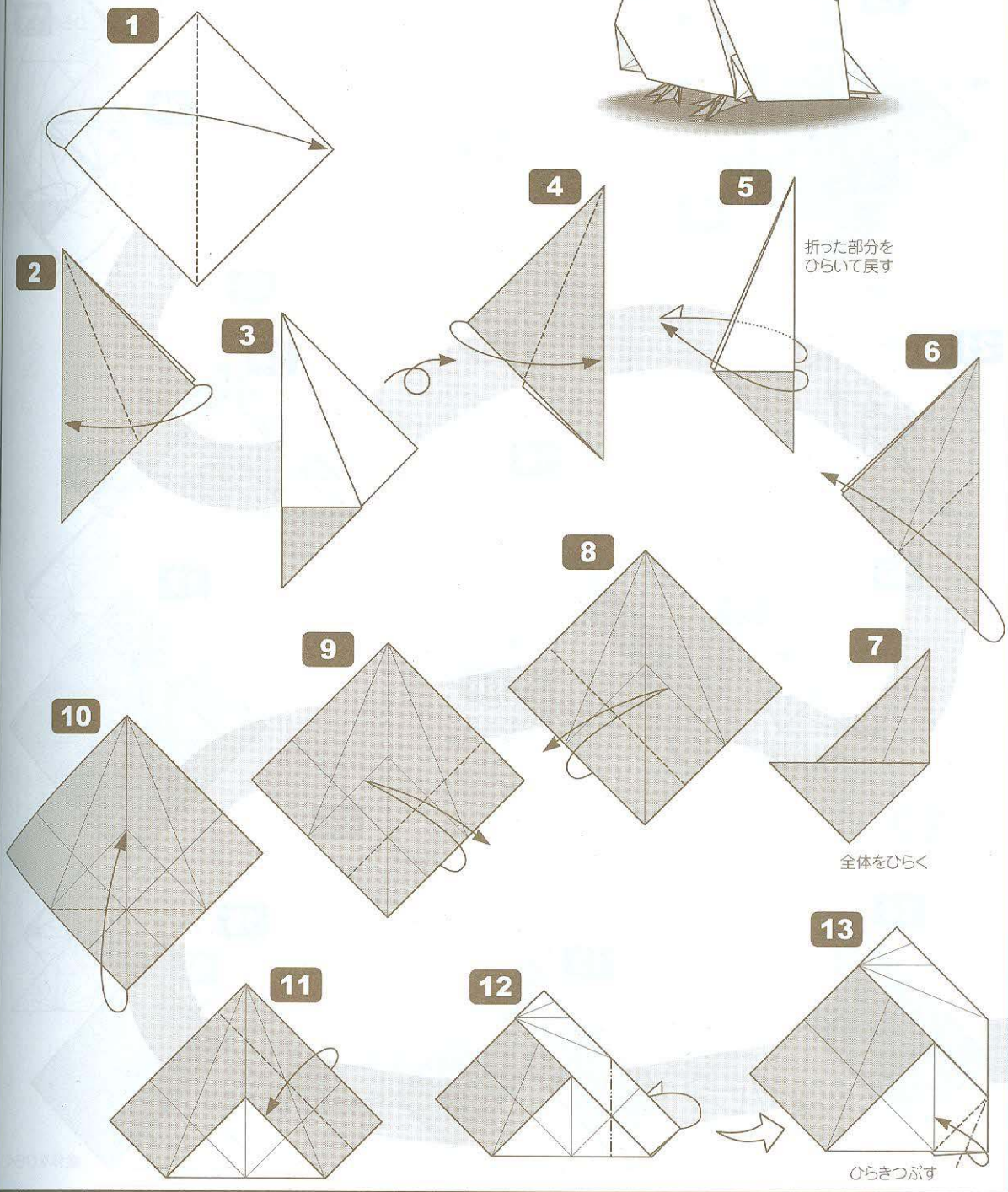
"Bantam" ©HOJYO Takashi 2009

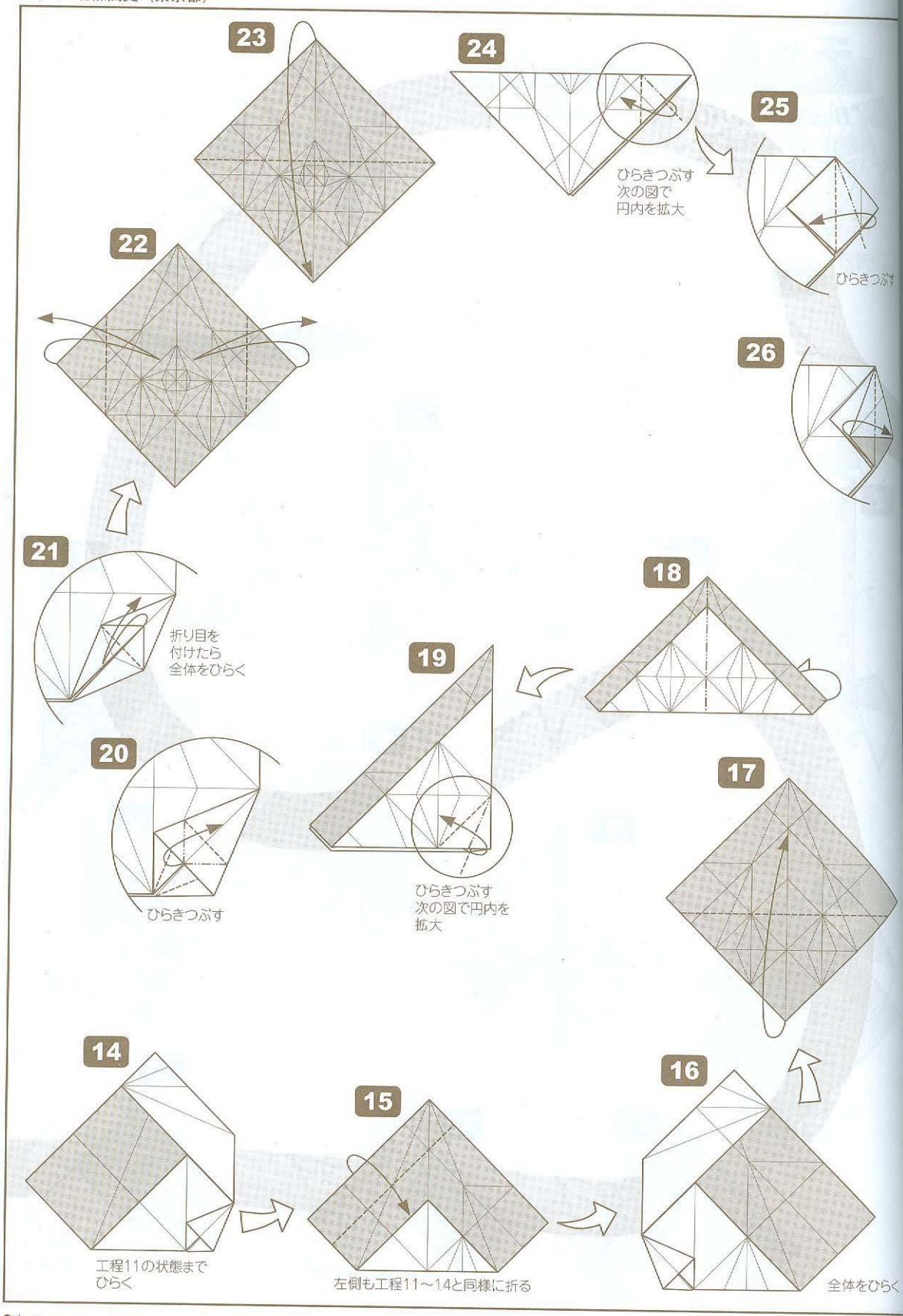
創作・図：北條高史

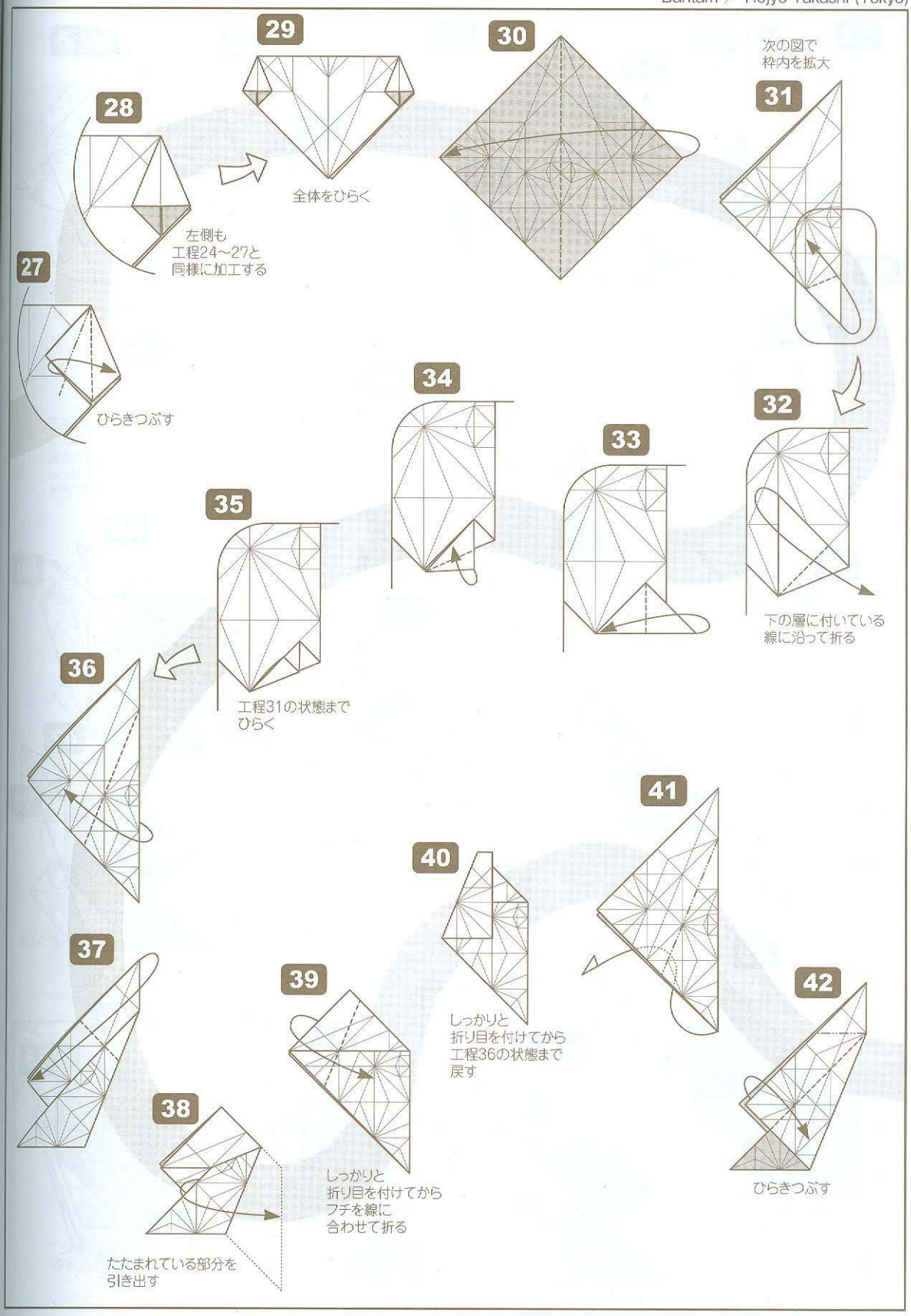
創作2009/8/2　作図2012/6/10

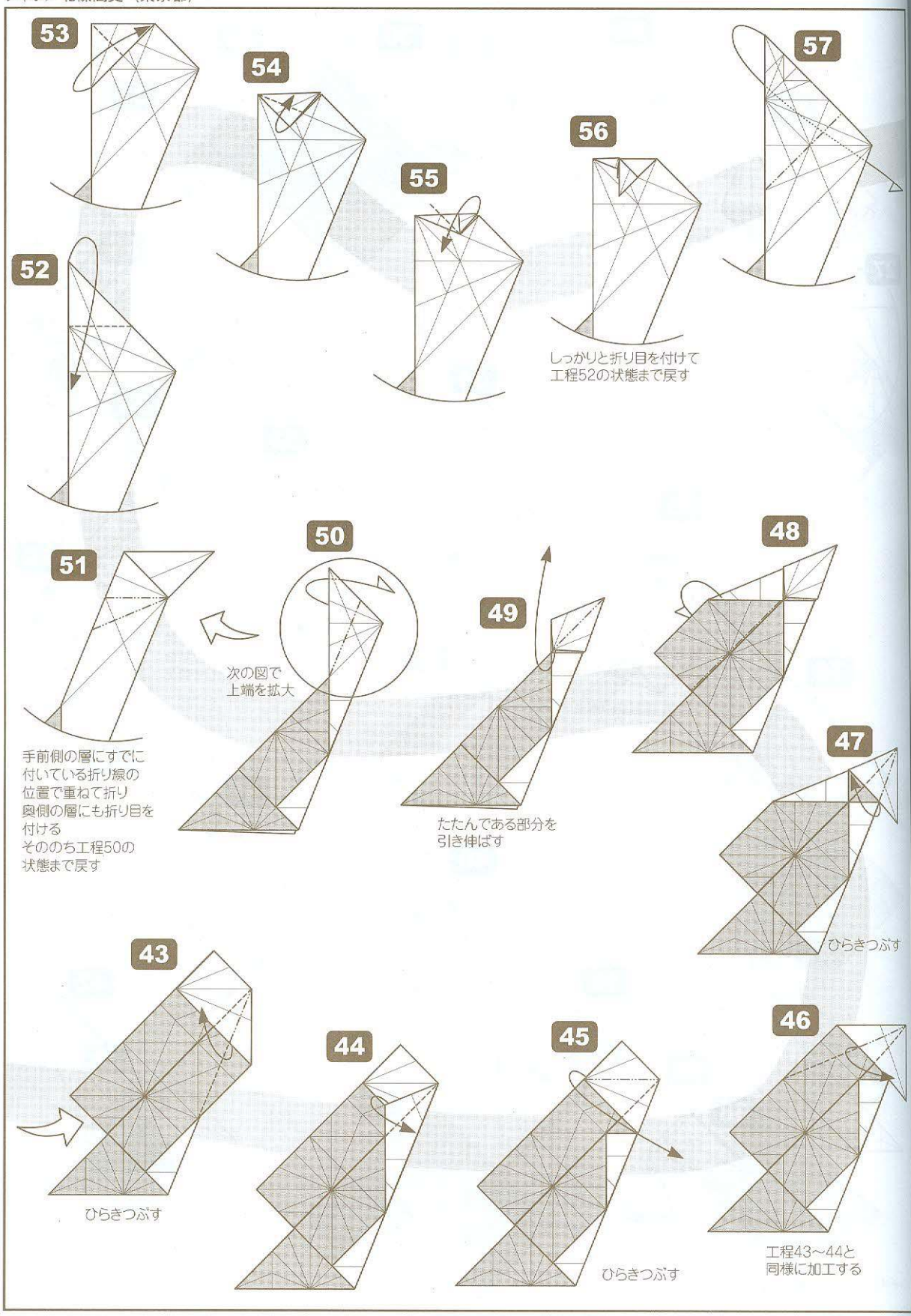
両面の色が異なる紙を使用する
1辺35cm以上の大きさを推奨

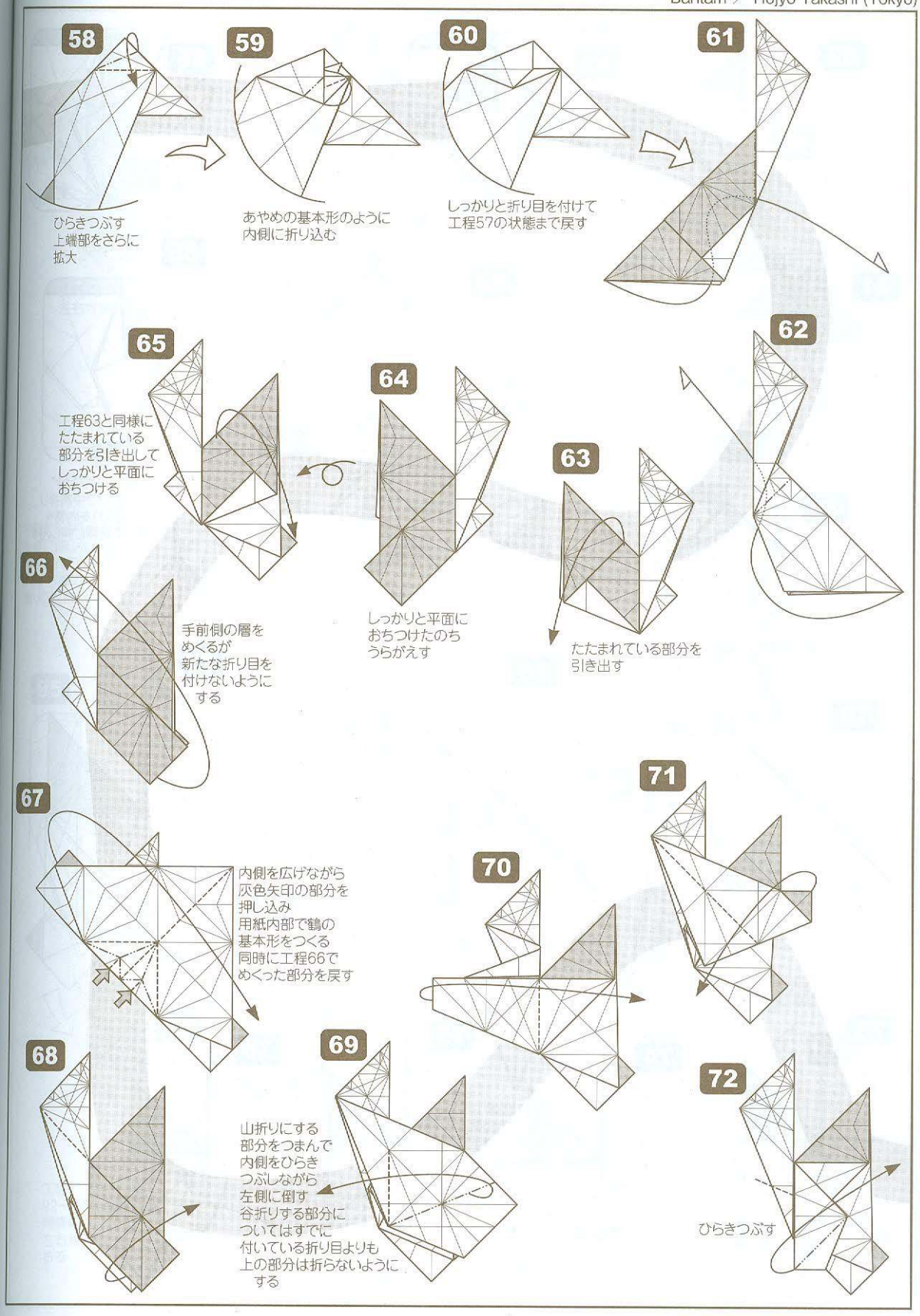


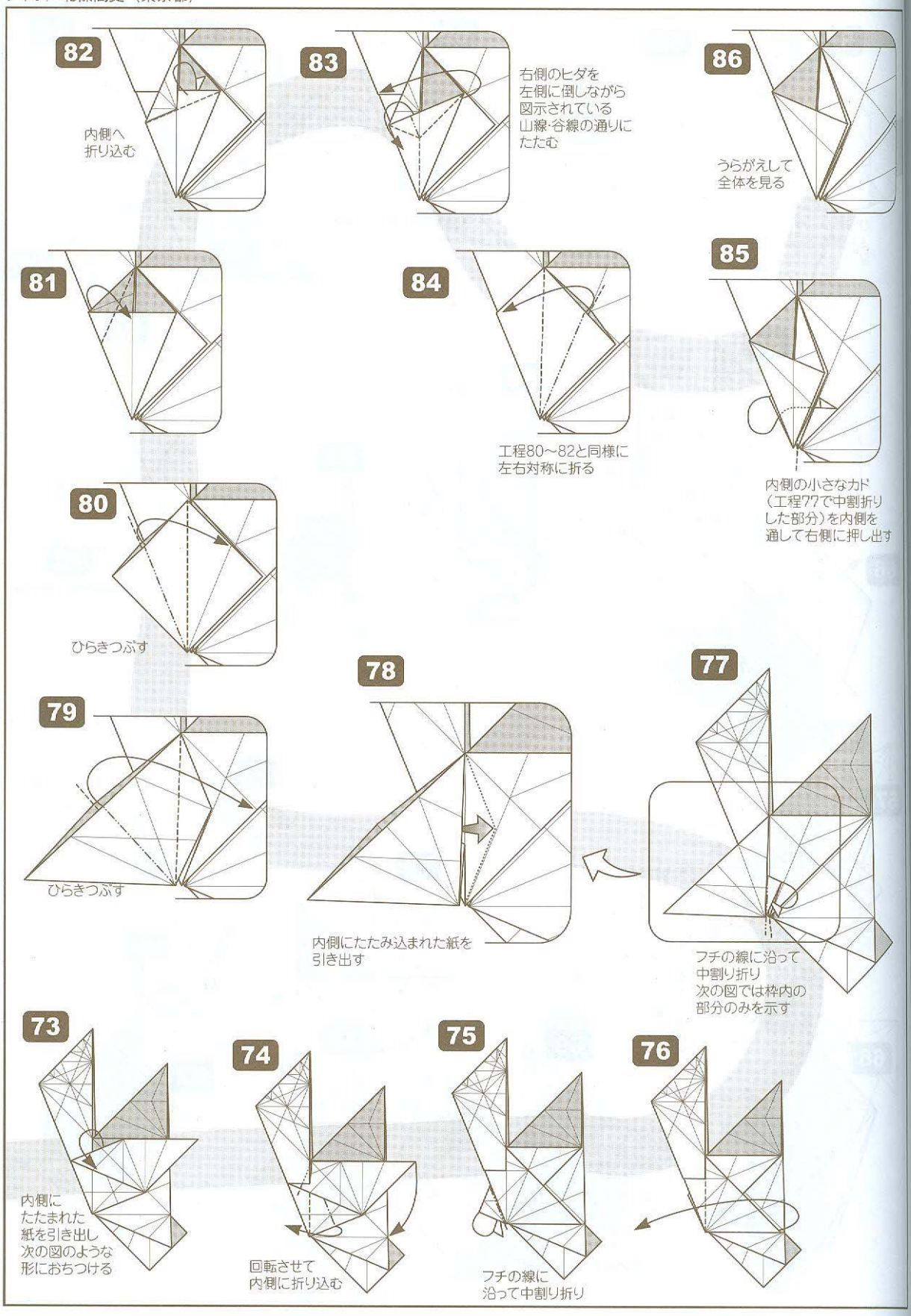


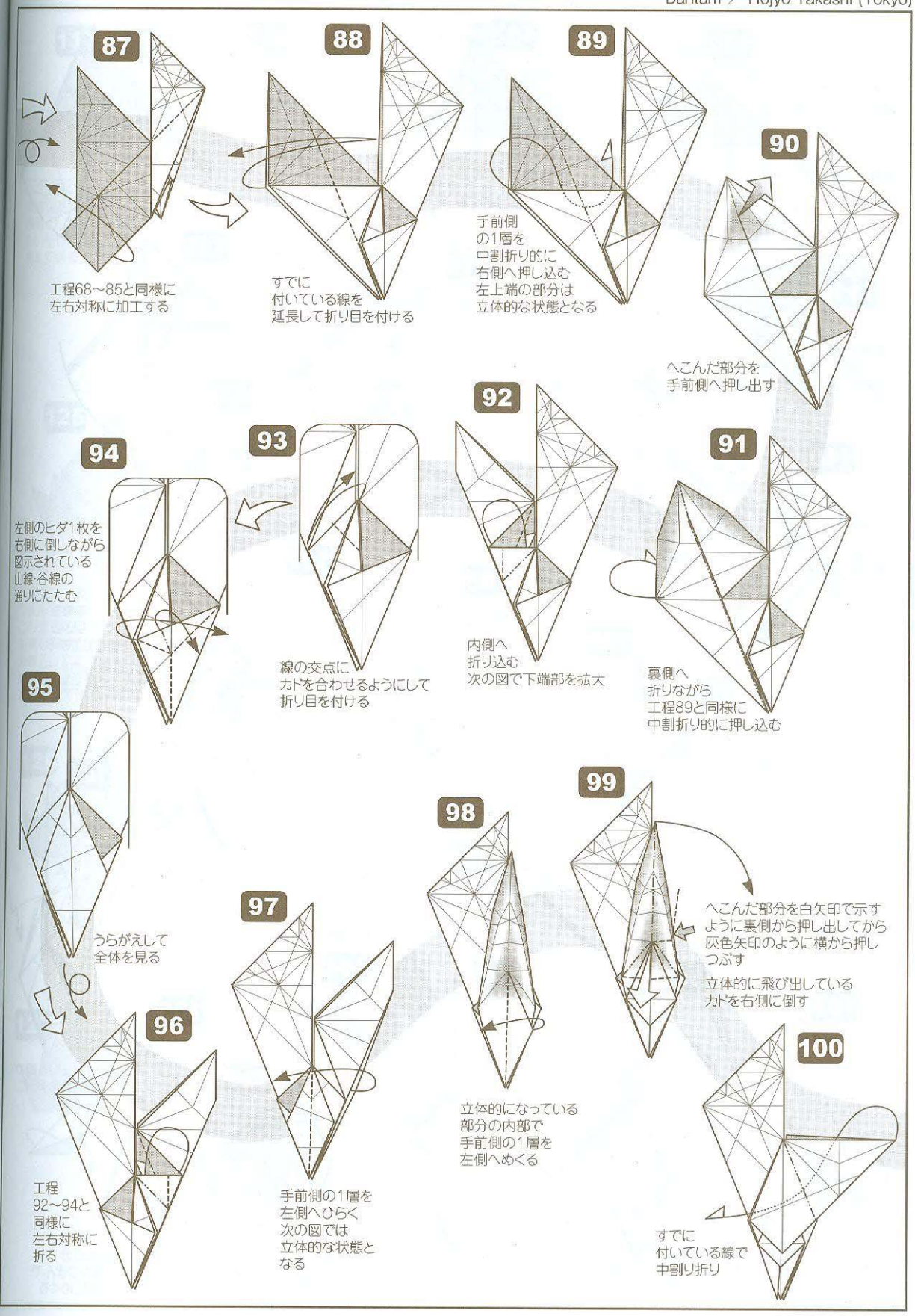

23
24
ひらきつぶす
次の図で
円内を拡大
25
ひらきつぶす
22
26
21
折り目を
付けたら
全体をひらく
18
19
20
ひらきつぶす
ひらきつぶす
次の図で円内を
拡大
17
14
工程11の状態まで
ひらく
15
左側も工程11～14と同様に折る
16
全体をひらく

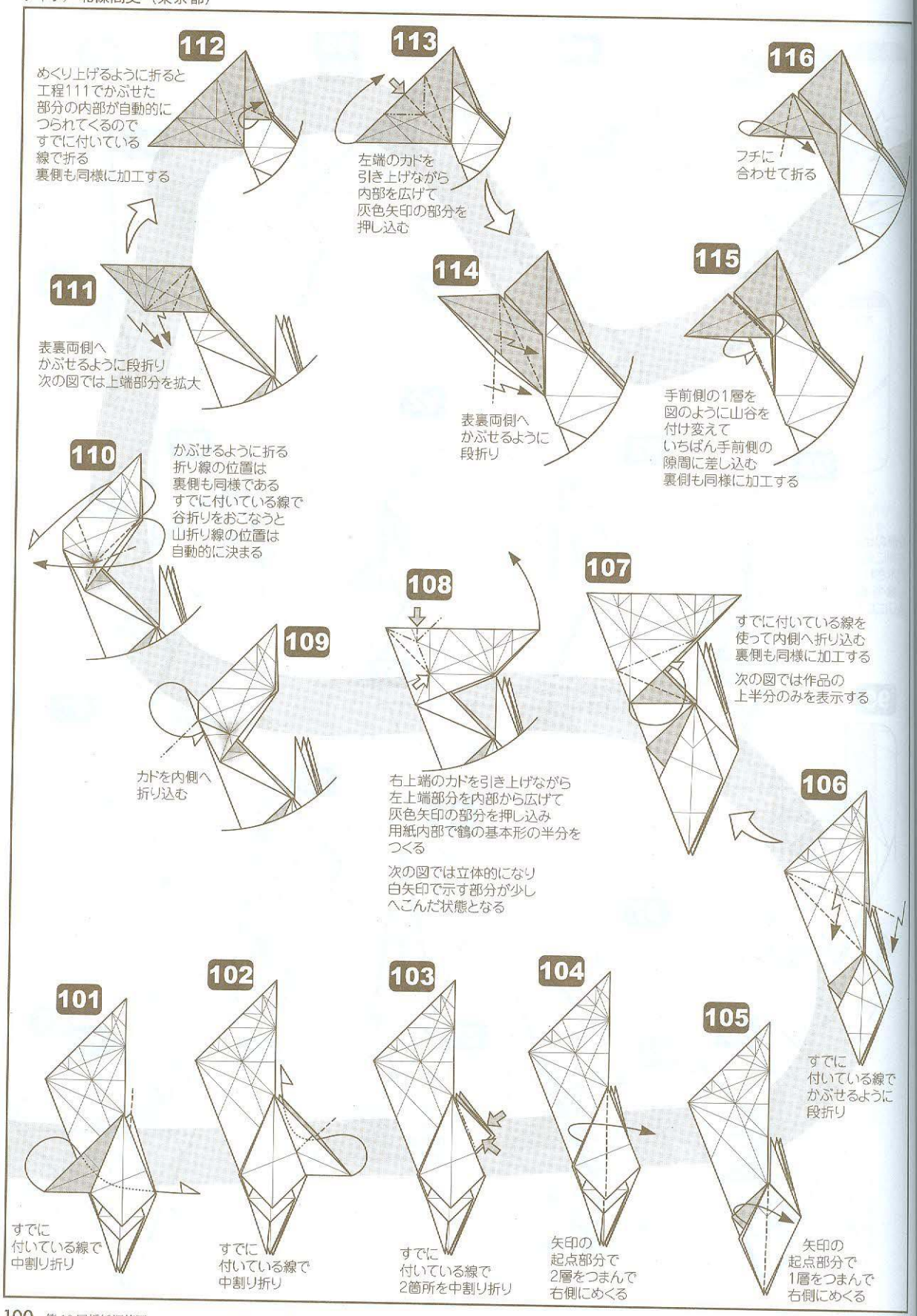

29
30
次の図で
枠内を拡大
31
28
全体をひらく
左側も
工程24～27と
同様に加工する
27
ひらきつぶす
34
32
33
35
下の層に付いている
線に沿って折る
工程31の状態まで
ひらく
36
41
40
37
39
42
しっかりと
折り目を付けてから
工程36の状態まで
戻す
38
しっかりと
折り目を付けてから
フチを線に
合わせて折る
ひらきつぶす
たたまれている部分を
引き出す

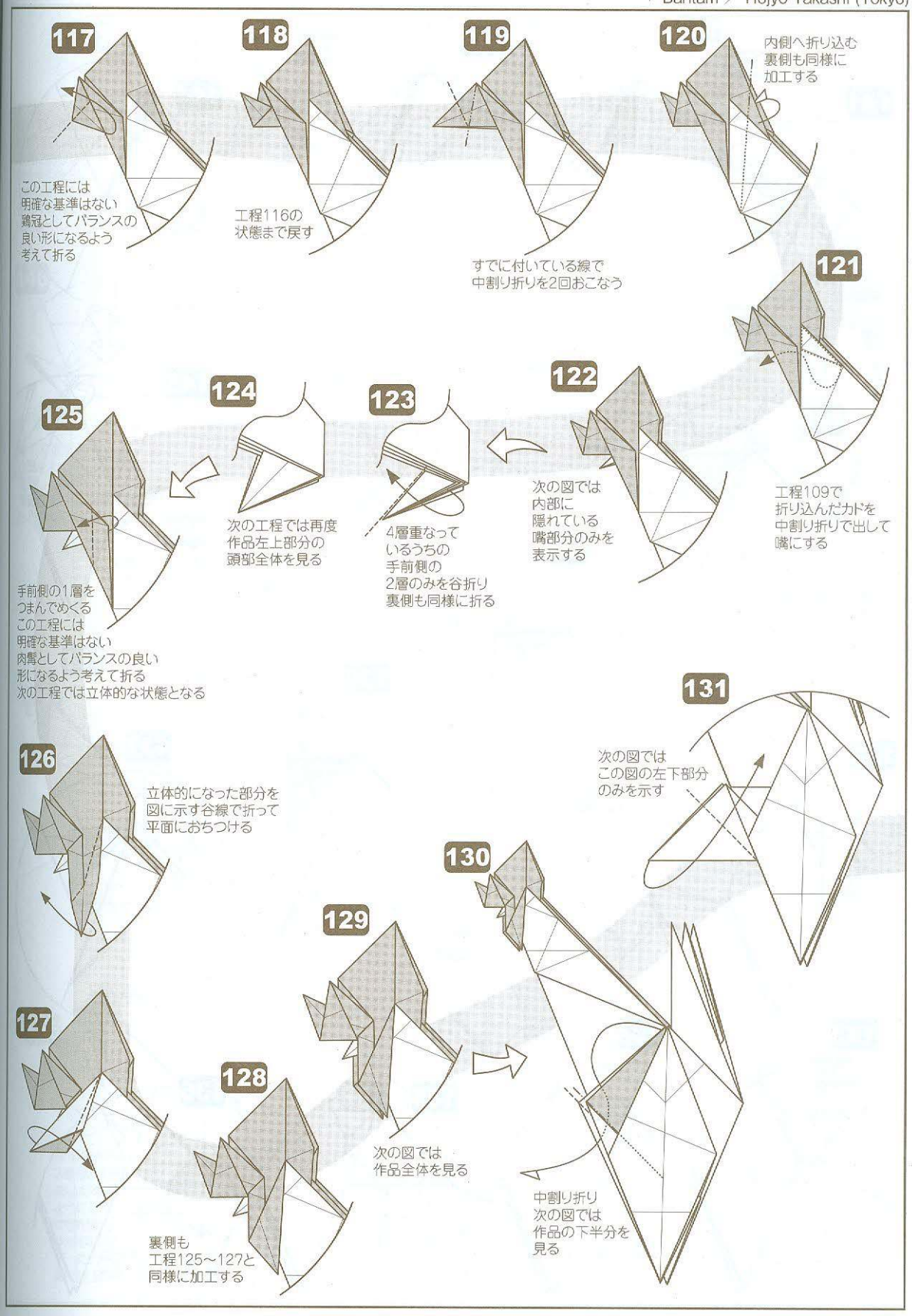

53
54
55
56
57
52
しっかりと折り目を付けて
工程52の状態まで戻す
51
50
48
49
次の図で
上端を拡大
手前側の層にすでに
付いている折り線の
位置で重ねて折り
奥側の層にも折り目を
付ける
そののち工程50の
状態まで戻す
たたんである部分を
引き伸ばす
47
ひらきつぶす
43
44
45
46
ひらきつぶす
ひらきつぶす
工程43～44と
同様に加工する

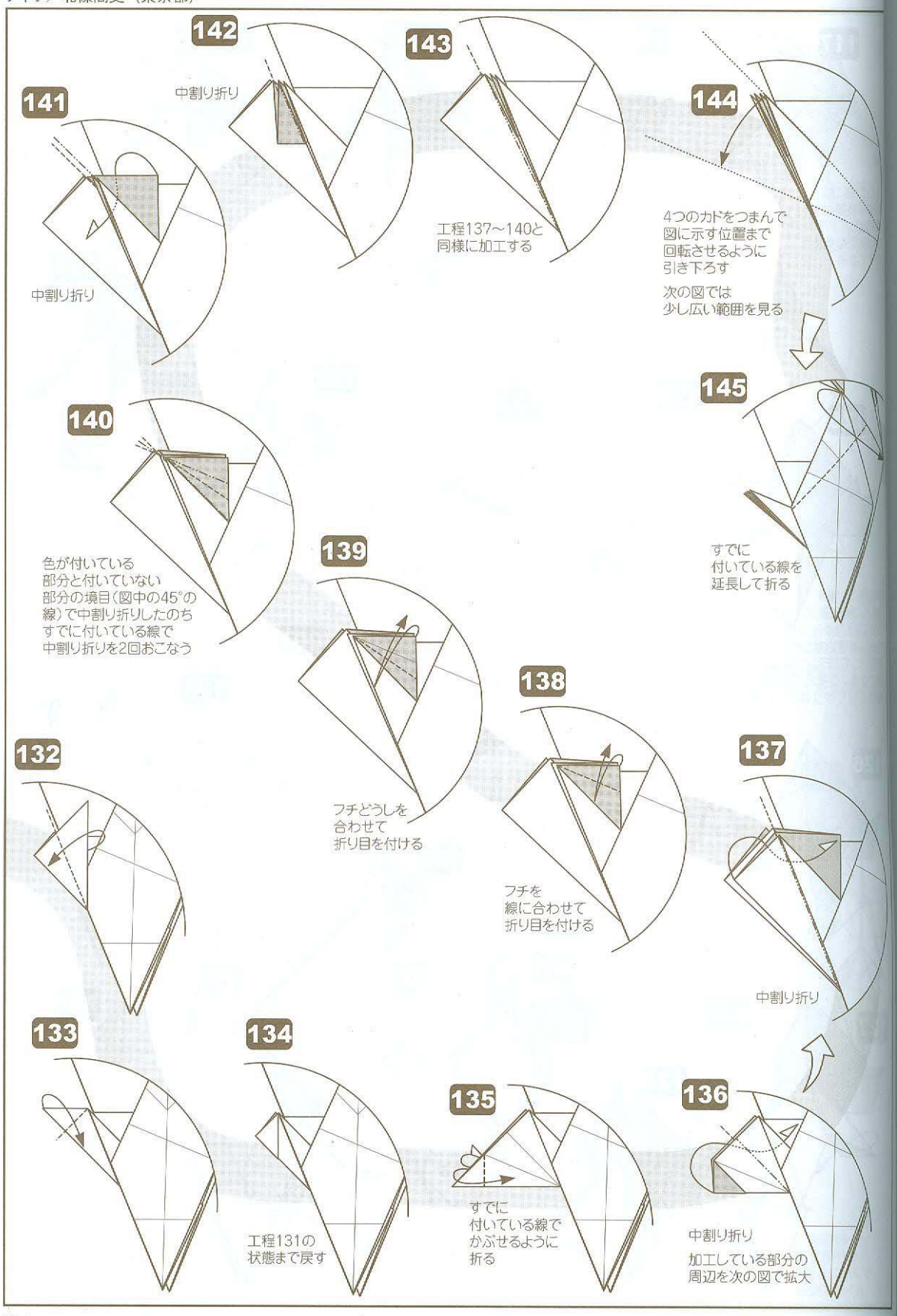

58
ひらきつぶす
上端部をさらに
拡大
59
あやめの基本形のように
内側に折り込む
60
しっかりと折り目を付けて
工程57の状態まで戻す
61
62
63
たたまれている部分を
引き出す
64
しっかりと平面に
おちつけたのち
うらがえす
65
工程63と同様に
たたまれている
部分を引き出して
しっかりと平面に
おちつける
66
手前側の層を
めくるが
新たな折り目を
付けないように
する
67
内側を広げながら
灰色矢印の部分を
押し込み
用紙内部で鶴の
基本形をつくる
同時に工程66で
めくった部分を戻す
68
69
山折りにする
部分をつまんで
内側をひらき
つぶしながら
左側に倒す
谷折りする部分に
ついてはすでに
付いている折り目よりも
上の部分は折らないように
する
70
71
72
ひらきつぶす

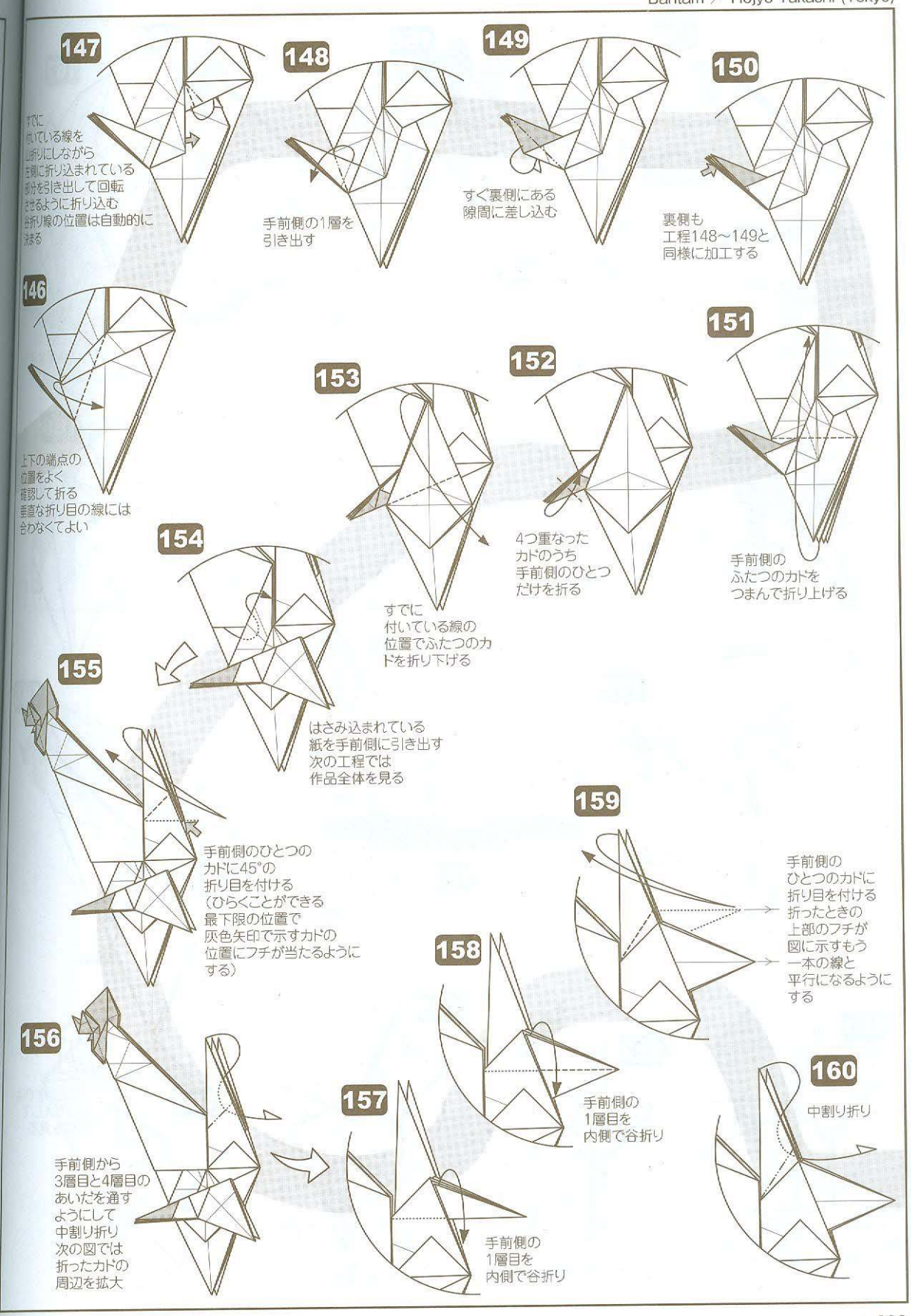

82
内側へ
折り込む
83
右側のヒダを
左側に倒しながら
図示されている
山線・谷線の通りに
たたむ
86
うらがえして
全体を見る
81
84
工程80～82と同様に
左右対称に折る
85
内側の小さなカド
（工程77で中割折り
した部分）を内側を
通して右側に押し出す
80
ひらきつぶす
78
77
79
ひらきつぶす
内側にたたみ込まれた紙を
引き出す
フチの線に沿って
中割り折り
次の図では枠内の
部分のみを示す
73
74
75
76
内側に
たたまれた
紙を引き出し
次の図のような
形におちつける
回転させて
内側に折り込む
フチの線に
沿って中割り折り


87
工程68～85と同様に
左右対称に加工する
88
すでに
付いている線を
延長して折り目を付ける
89
手前側
の1層を
中割折り的に
右側へ押し込む
左上端の部分は
立体的な状態となる
90
へこんだ部分を
手前側へ押し出す
91
裏側へ
折りながら
工程89と同様に
中割折り的に押し込む
92
内側へ
折り込む
次の図で下端部を拡大
93
線の交点に
カドを合わせるようにして
折り目を付ける
94
左側のヒダ1枚を
右側に倒しながら
図示されている
山線・谷線の
通りにたたむ
95
うらがえして
全体を見る
96
工程
92～94と
同様に
左右対称に
折る
97
手前側の1層を
左側へひらく
次の図では
立体的な状態と
なる
98
立体的になっている
部分の内部で
手前側の1層を
左側へめくる
99
へこんだ部分を白矢印で示す
ように裏側から押し出してから
灰色矢印のように横から押し
つぶす
立体的に飛び出している
カドを右側に倒す
100
すでに
付いている線で
中割り折り

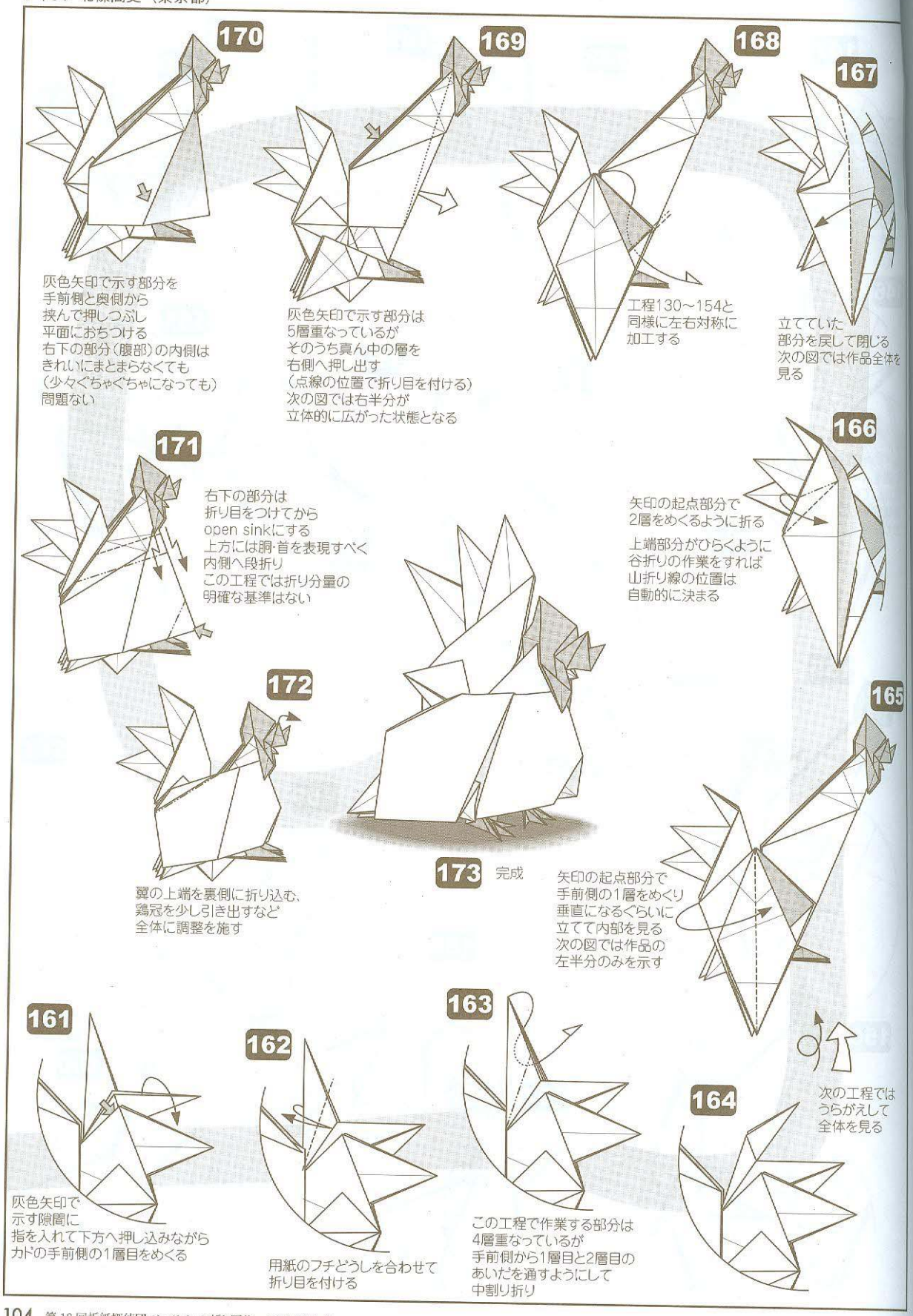

112
めくり上げるように折ると
工程111でかぶせた
部分の内部が自動的に
つられてくるので
すでに付いている
線で折る
裏側も同様に加工する
113
左端のカドを
引き上げながら
内部を広げて
灰色矢印の部分を
押し込む
116
フチに
合わせて折る
111
表裏両側へ
かぶせるように段折り
次の図では上端部分を拡大
114
表裏両側へ
かぶせるように
段折り
115
手前側の1層を
図のように山谷を
付け変えて
いちばん手前側の
隙間に差し込む
裏側も同様に加工する
110
かぶせるように折る
折り線の位置は
裏側も同様である
すでに付いている線で
谷折りをおこなうと
山折り線の位置は
自動的に決まる
108
107
すでに付いている線を
使って内側へ折り込む
裏側も同様に加工する
次の図では作品の
上半分のみを表示する
109
カドを内側へ
折り込む
右上端のカドを引き上げながら
左上端部分を内部から広げて
灰色矢印の部分を押し込み
用紙内部で鶴の基本形の半分を
つくる
次の図では立体的になり
白矢印で示す部分が少し
へこんだ状態となる
106
すでに
付いている線で
かぶせるように
段折り
101
すでに
付いている線で
中割り折り
102
すでに
付いている線で
中割り折り
103
すでに
付いている線で
2箇所を中割り折り
104
矢印の
起点部分で
2層をつまんで
右側にめくる
105
矢印の
起点部分で
1層をつまんで
右側にめくる

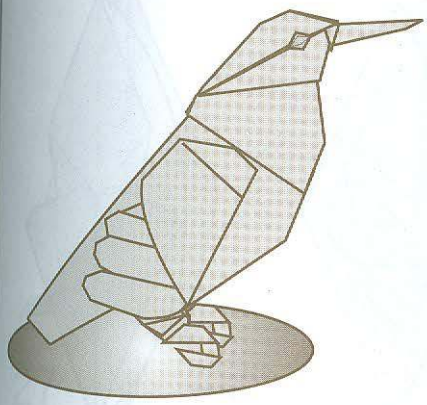

117
この工程には
明確な基準はない
鶏冠としてバランスの
良い形になるよう
考えて折る
118
工程116の
状態まで戻す
119
すでに付いている線で
中割り折りを2回おこなう
120
内側へ折り込む
裏側も同様に
加工する
121
工程109で
折り込んだカドを
中割り折りで出して
嘴にする
122
次の図では
内部に
隠れている
嘴部分のみを
表示する
123
4層重なって
いるうちの
手前側の
2層のみを谷折り
裏側も同様に折る
124
次の工程では再度
作品左上部分の
頭部全体を見る
125
手前側の1層を
つまんでめくる
この工程には
明確な基準はない
肉髯としてバランスの良い
形になるよう考えて折る
次の工程では立体的な状態となる
126
立体的になった部分を
図に示す谷線で折って
平面におちつける
127
128
裏側も
工程125～127と
同様に加工する
129
次の図では
作品全体を見る
130
中割り折り
次の図では
作品の下半分を
見る
131
次の図では
この図の左下部分
のみを示す


141
中割り折り
142
中割り折り
143
工程137～140と
同様に加工する
144
4つのカドをつまんで
図に示す位置まで
回転させるように
引き下ろす
次の図では
少し広い範囲を見る
145
すでに
付いている線を
延長して折る
140
色が付いている
部分と付いていない
部分の境目（図中の45°の
線）で中割り折りしたのち
すでに付いている線で
中割り折りを2回おこなう
139
フチどうしを
合わせて
折り目を付ける
138
フチを
線に合わせて
折り目を付ける
137
中割り折り
132
133
134
工程131の
状態まで戻す
135
すでに
付いている線で
かぶせるように
折る
136
中割り折り
加工している部分の
周辺を次の図で拡大


147
すでに
付いている線を
山折りにしながら
左側に折り込まれている
部分を引き出して回転
させるように折り込む
谷折り線の位置は自動的に
決まる
148
手前側の1層を
引き出す
149
すぐ裏側にある
隙間に差し込む
150
裏側も
工程148～149と
同様に加工する
146
上下の端点の
位置をよく
確認して折る
垂直な折り目の線には
合わなくてよい
151
手前側の
ふたつのカドを
つまんで折り上げる
152
4つ重なった
カドのうち
手前側のひとつ
だけを折る
153
すでに
付いている線の
位置でふたつのカ
ドを折り下げる
154
はさみ込まれている
紙を手前側に引き出す
次の工程では
作品全体を見る
155
手前側のひとつの
カドに45°の
折り目を付ける
（ひらくことができる
最下限の位置で
灰色矢印で示すカドの
位置にフチが当たるように
する）
159
手前側の
ひとつのカドに
折り目を付ける
折ったときの
上部のフチが
図に示すもう
一本の線と
平行になるように
する
158
手前側の
1層目を
内側で谷折り
156
手前側から
3層目と4層目の
あいだを通す
ようにして
中割り折り
次の図では
折ったカドの
周辺を拡大
157
手前側の
1層目を
内側で谷折り
160
中割り折り

チャボ／北條高史（東京都）

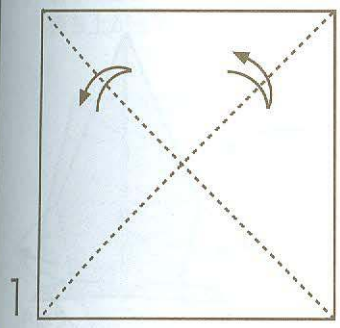

170
灰色矢印で示す部分を
手前側と奥側から
挟んで押しつぶし
平面におちつける
右下の部分（腹部）の内側は
きれいにまとまらなくても
（少々ぐちゃぐちゃになっても）
問題ない
169
灰色矢印で示す部分は
5層重なっているが
そのうち真ん中の層を
右側へ押し出す
（点線の位置で折り目を付ける）
次の図では右半分が
立体的に広がった状態となる
168
工程130～154と
同様に左右対称に
加工する
167
立てていた
部分を戻して閉じる
次の図では作品全体を
見る
171
右下の部分は
折り目をつけてから
open sinkにする
上方には胴・首を表現すべく
内側へ段折り
この工程では折り分量の
明確な基準はない
166
矢印の起点部分で
2層をめくるように折る
上端部分がひらくように
谷折りの作業をすれば
山折り線の位置は
自動的に決まる
172
翼の上端を裏側に折り込む、
鶏冠を少し引き出すなど
全体に調整を施す
173 完成
165
矢印の起点部分で
手前側の1層をめくり
垂直になるぐらいに
立てて内部を見る
次の図では作品の
左半分のみを示す
161
灰色矢印で
示す隙間に
指を入れて下方へ押し込みながら
カドの手前側の1層目をめくる
162
用紙のフチどうしを合わせて
折り目を付ける
163
この工程で作業する部分は
4層重なっているが
手前側から1層目と2層目の
あいだを通すようにして
中割り折り
164
次の工程では
うらがえして
全体を見る



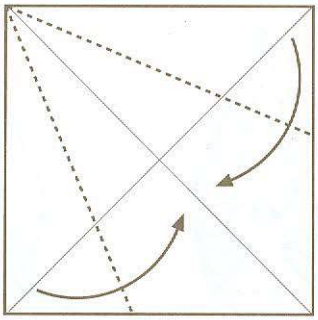
カワセミ
King Fisher

創作者:津田良夫
創作:2011年8月27日
作図:2012年4月15日

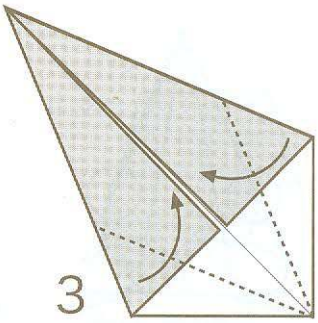
Created by Yoshio Tsuda
on 27 August 2011
Diagramed: 15 April 2012



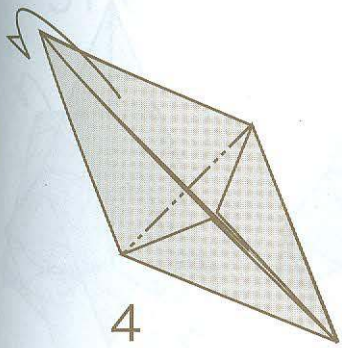
1



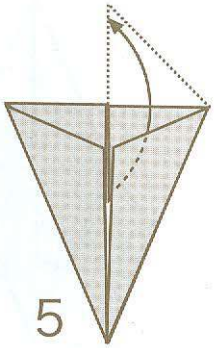
2



3



4



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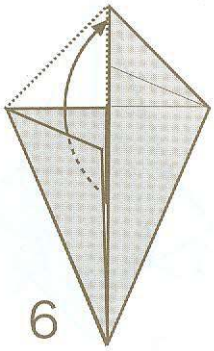
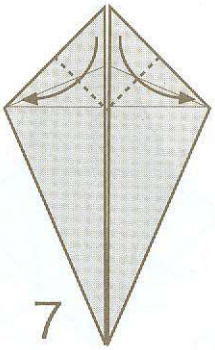
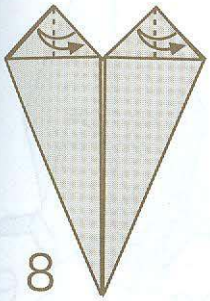


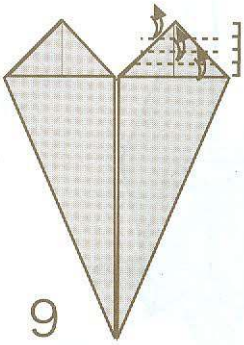
6



7

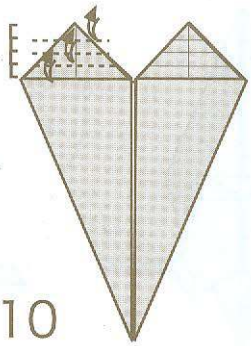


8



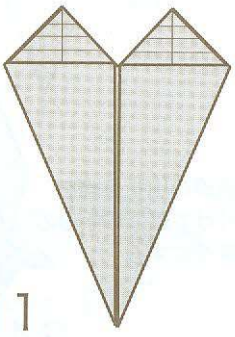
9

4等分する



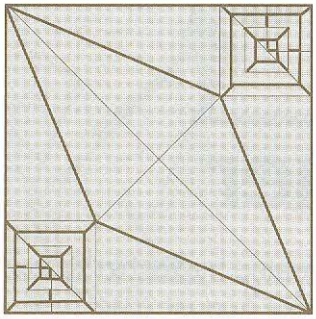
10

4等分する

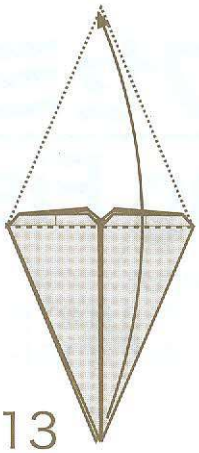


11

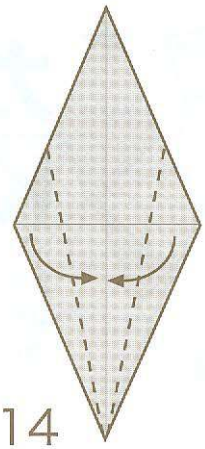
全体を開く



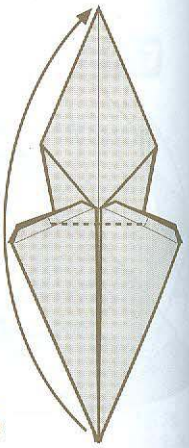
12 太い線を山折り、細い線を谷折りする



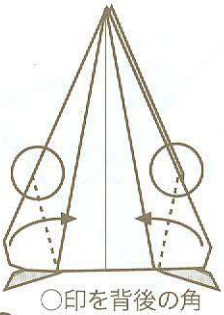
13



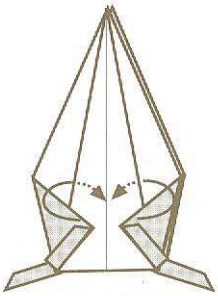
14



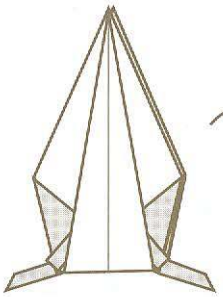
15



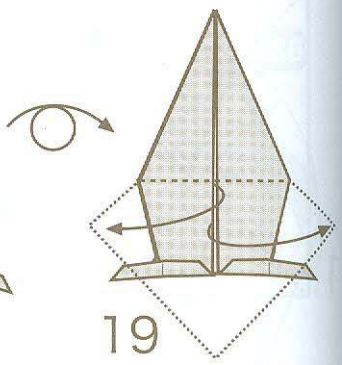
16 ○印を背後の角に合わせる



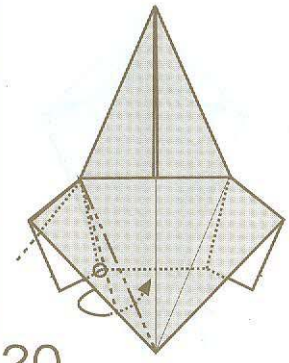
17 角を隙間に差し込む



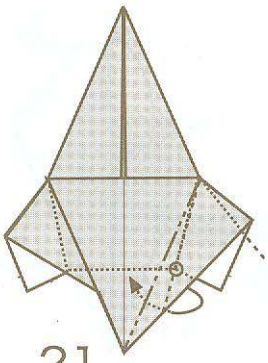
18



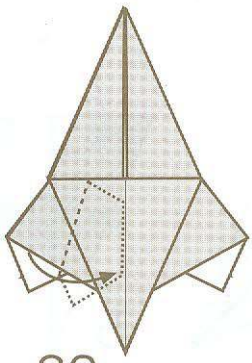
19



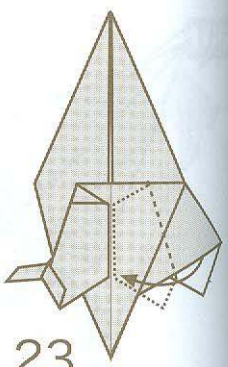
20 用紙のへりが内側の○印を通るように段折りする



21

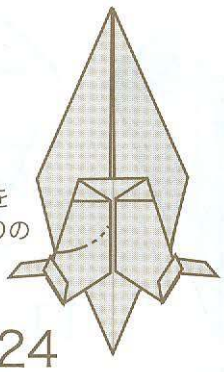


22

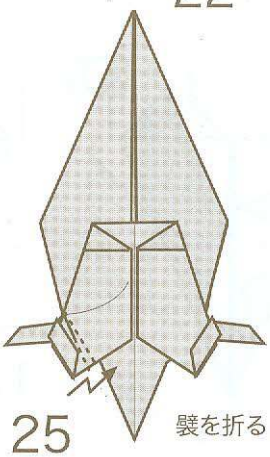


23

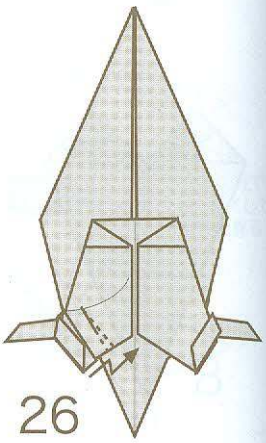
曲線の山折り線を付けて以下の折りの基準にする



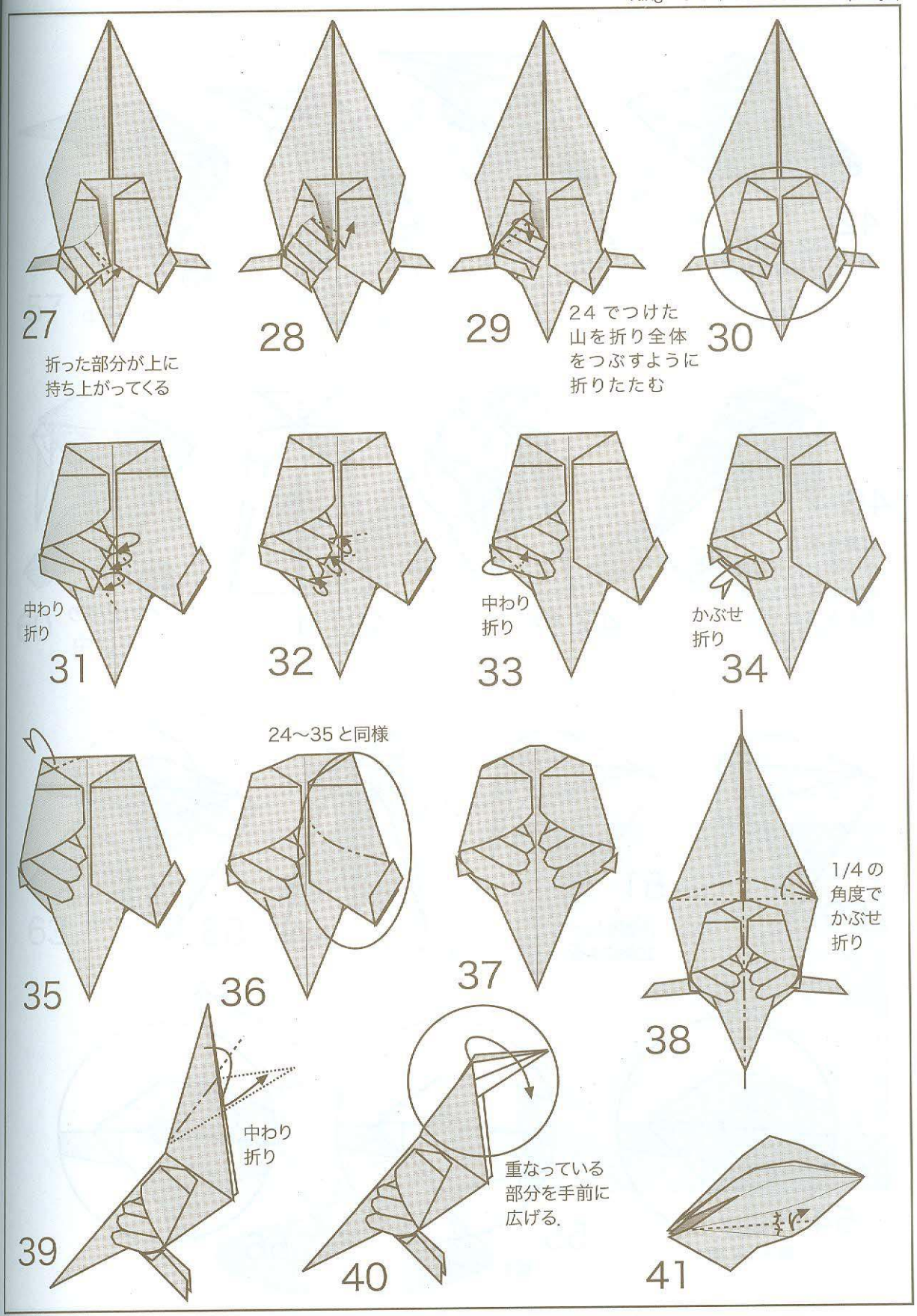
24

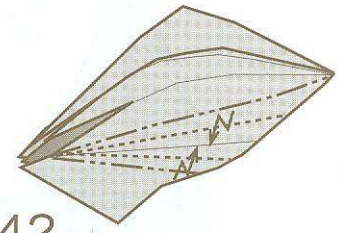


25 襞を折る



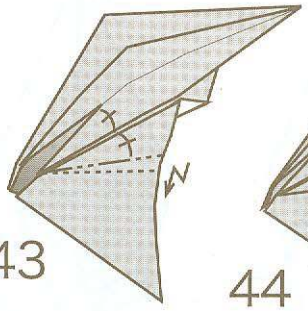
26


27
折った部分が上に
持ち上がってくる
28
29
24 でつけた
山を折り全体
をつぶすように
折りたたむ
30
中わり
折り
31
32
中わり
折り
33
かぶせ
折り
34
35
24〜35 と同様
36
37
1/4 の
角度で
かぶせ
折り
38
中わり
折り
39
重なっている
部分を手前に
広げる.
40
41

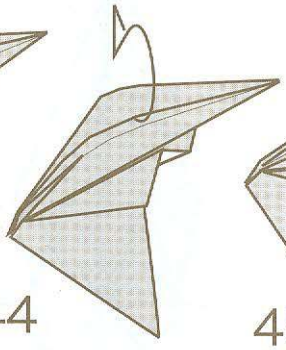


42

42でつけた線に
あわせて段折り

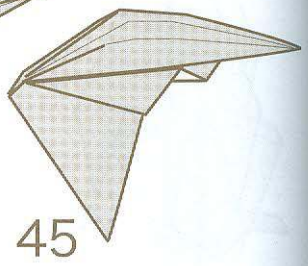


43

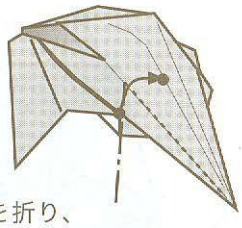


44

反対側も42〜44
と同様に折る

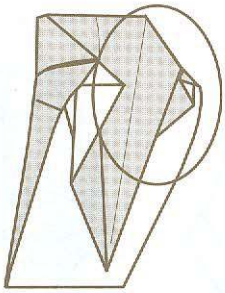


45

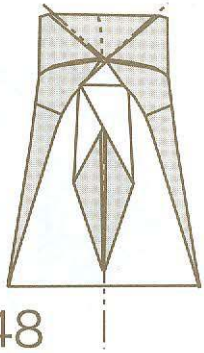


46

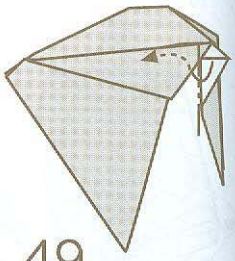
山線を折り、
ぶつかった折り線が
谷になるようにして、
黒丸を合わせる



47 同様に折る

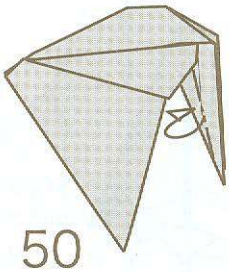


48

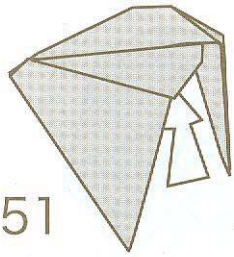


49

中わり折り

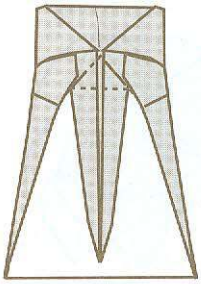


50

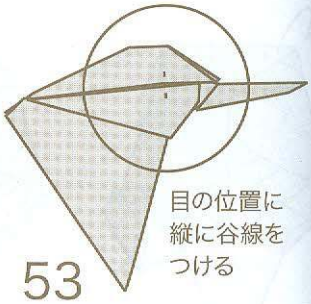


51

内側を広げて
立体にする

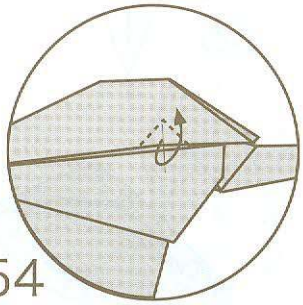


52



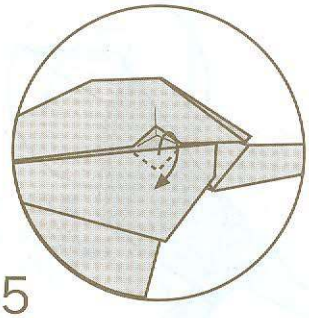
53

目の位置に
縦に谷線を
つける



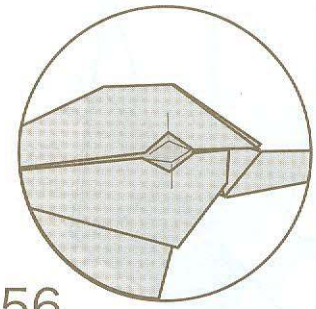
54

襞を上に開く

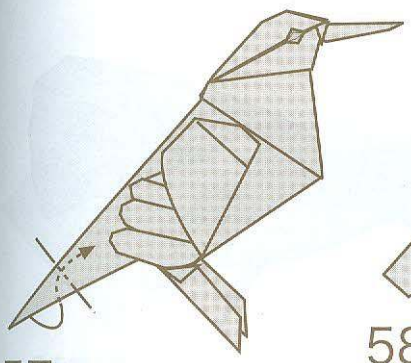


55

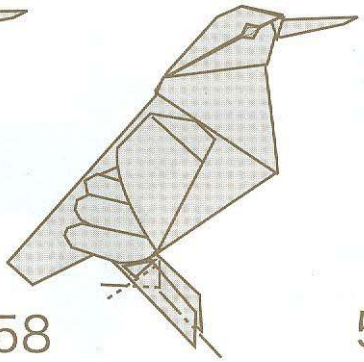
襞を下に開く



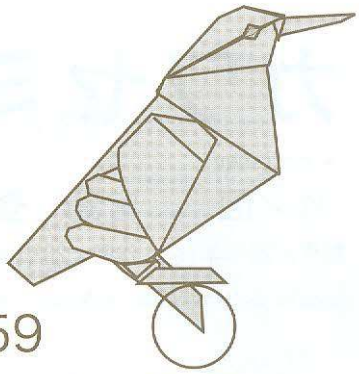
56



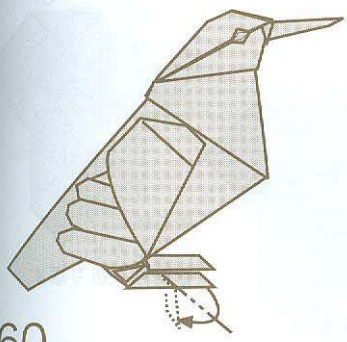
57 中わり折り



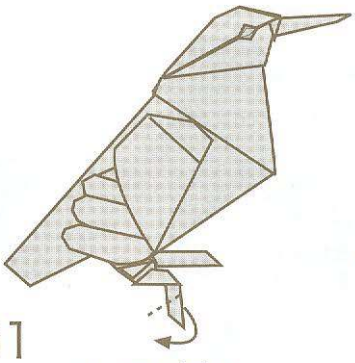
58 つまみ折りで脚を細くする



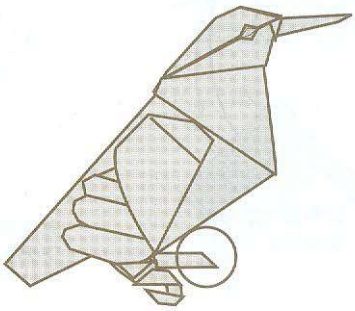
59 もう一方も同様



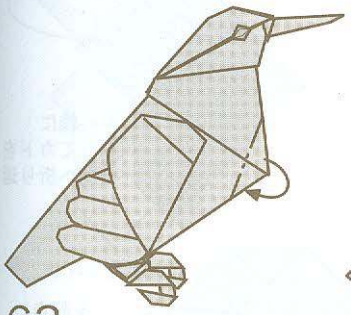
60 中わり折り



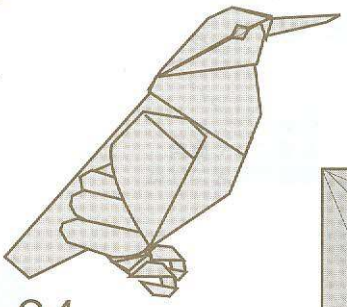
61 かぶせ折り



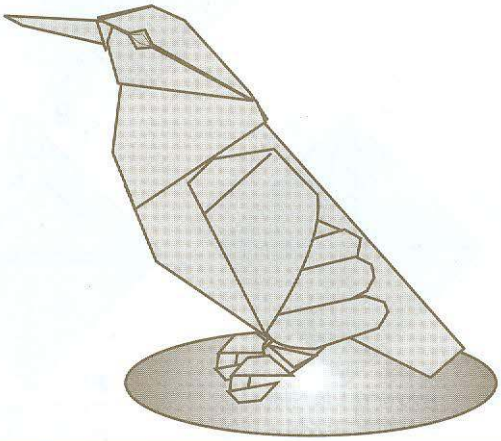
62 もう一方も同様

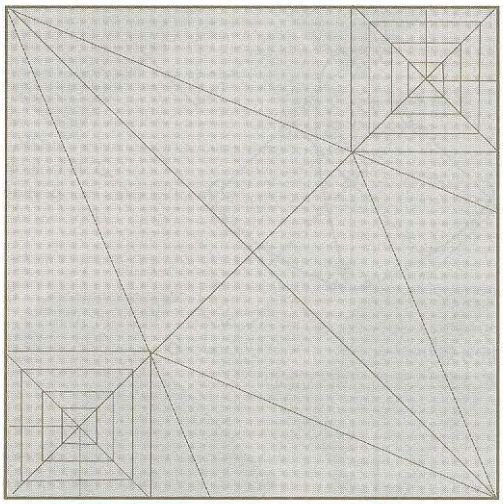


63



64





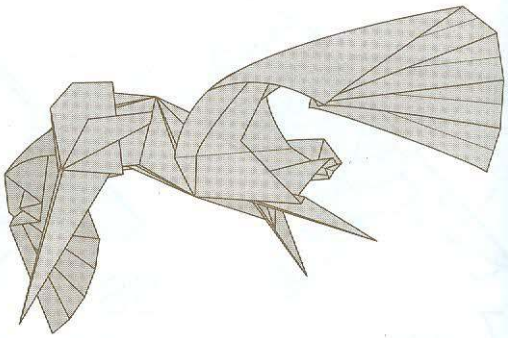
カワセミ

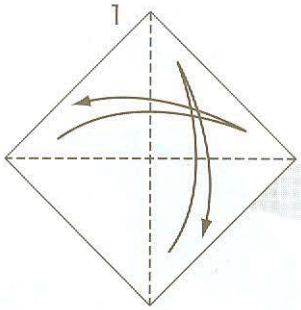
Kingfisher

作／図　　宮島　登

創作／2010年1月　作図／2010年6月

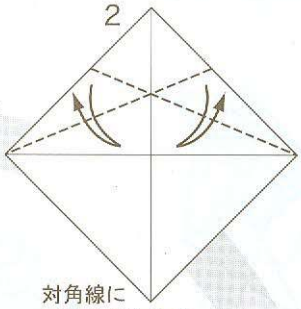
Models & Diagrams By Noboru MIYAJIMA





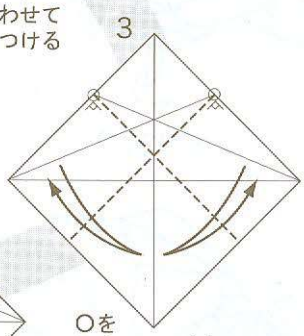
1

対角線で折り筋
をつける



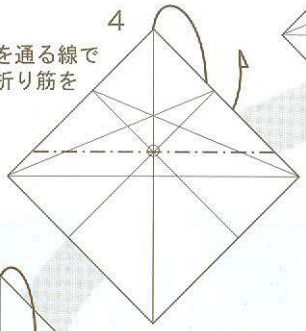
2

対角線に
フチを合わせて
折り筋をつける



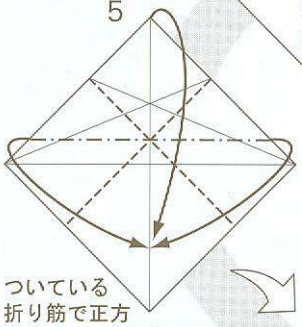
3

○を
起点にして直角
の折り筋をつける



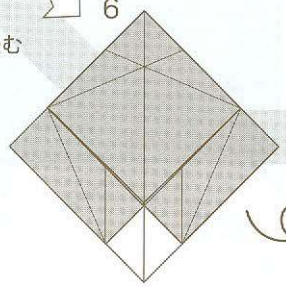
4

○の交点を通る線で
山折りの折り筋を
つける



5

ついている
折り筋で正方
基本形の要領で折り畳む



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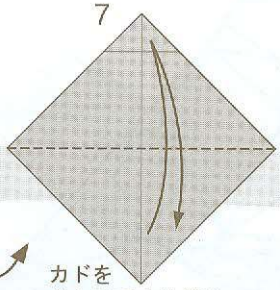
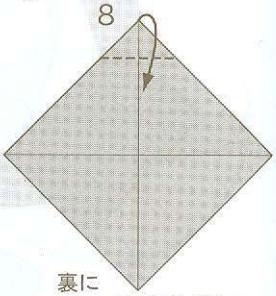


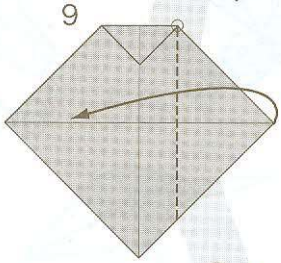
7

カドを
合わせて１枚だけ
折り筋をつける



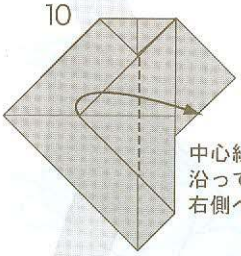
8

裏に
ついている折り筋で
カドを折り返す



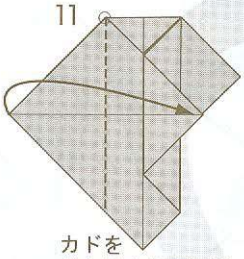
9

○を起点に
した線で
左側へカドを
折る



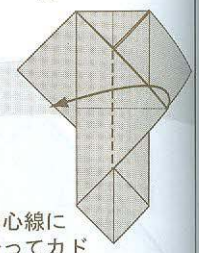
10

中心線に
沿ってカドを
右側へ折り返す



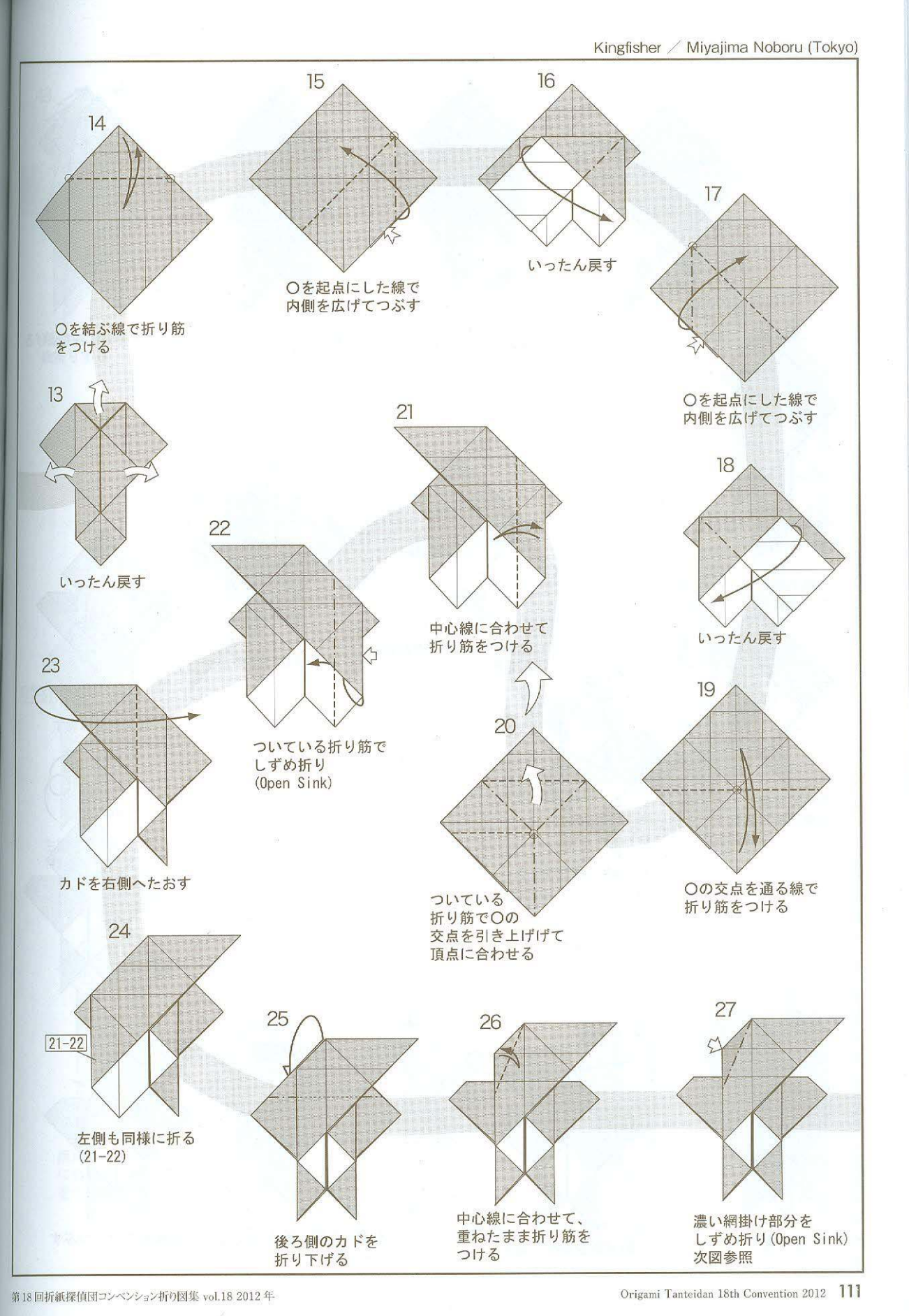
11

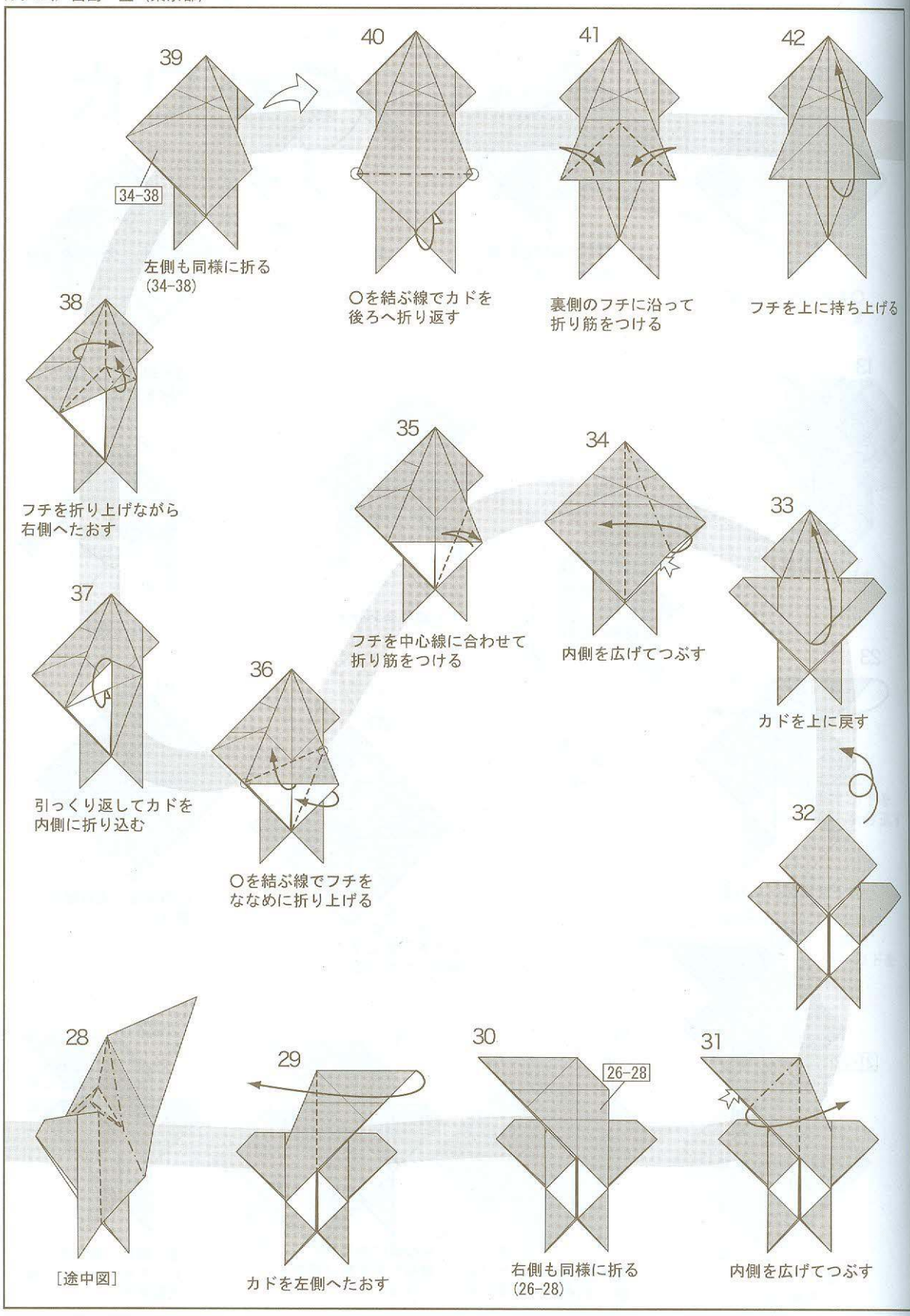
カドを
重ねるように折る

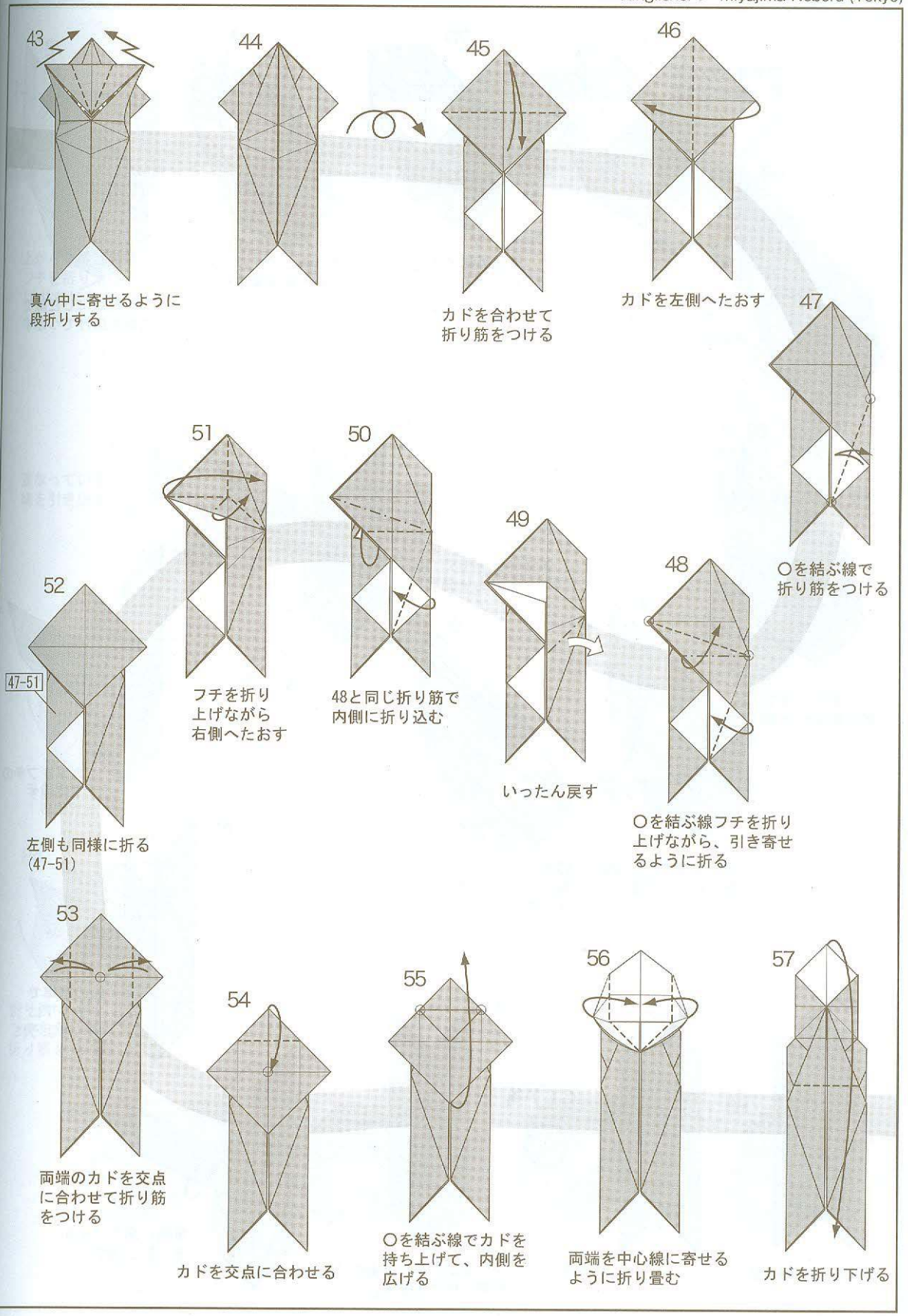


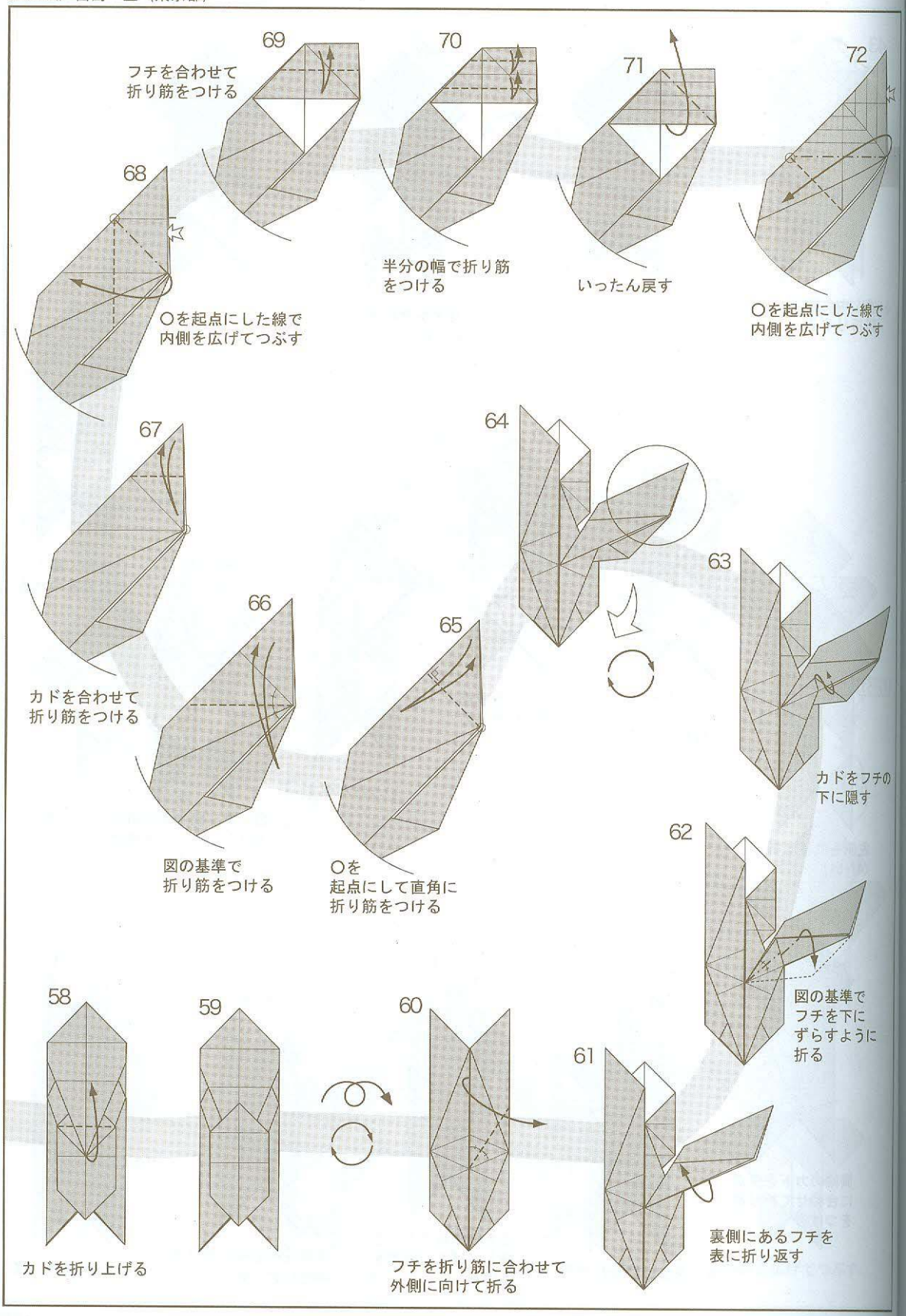
12

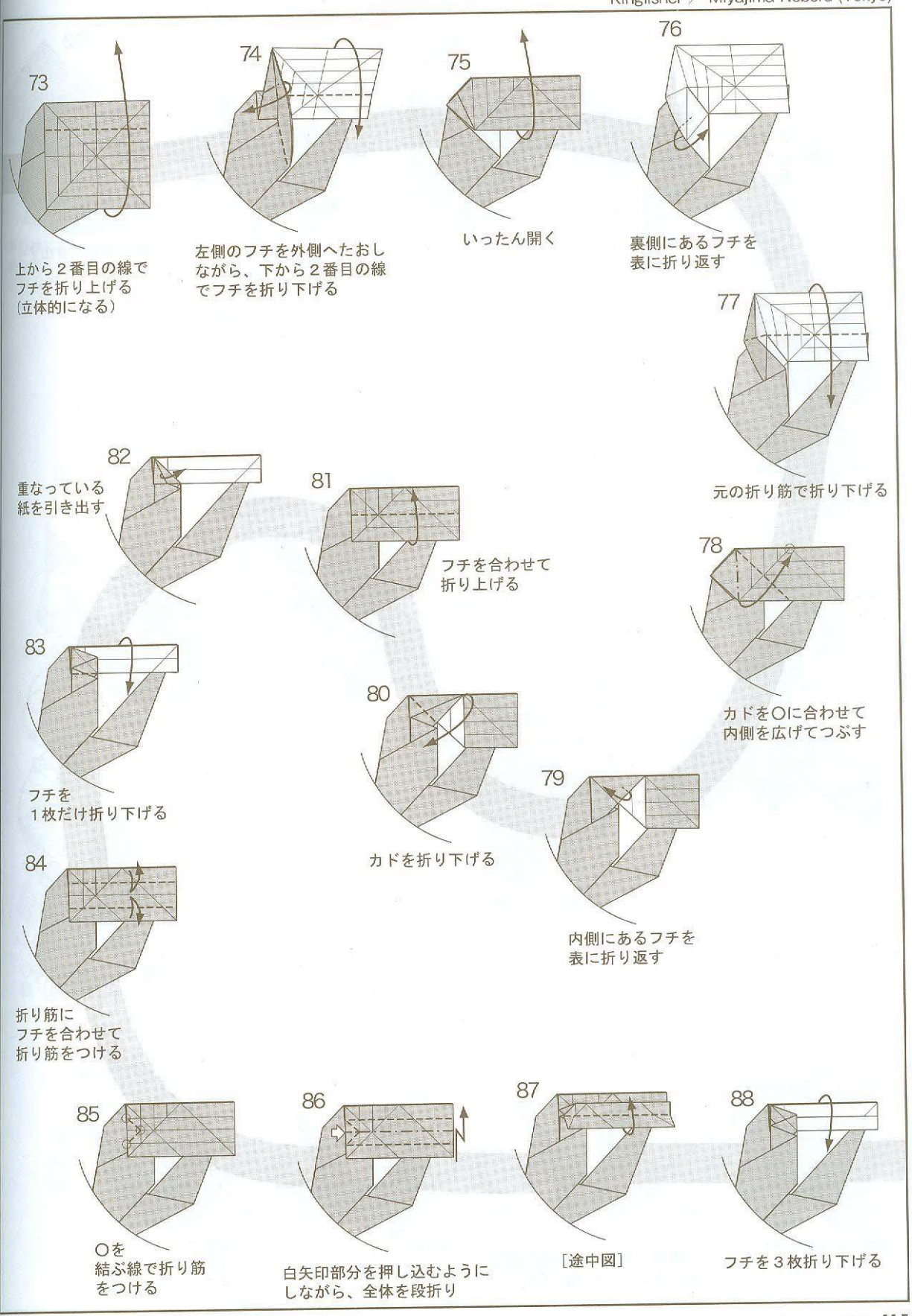
中心線に
沿ってカド
を左側へ折り返す

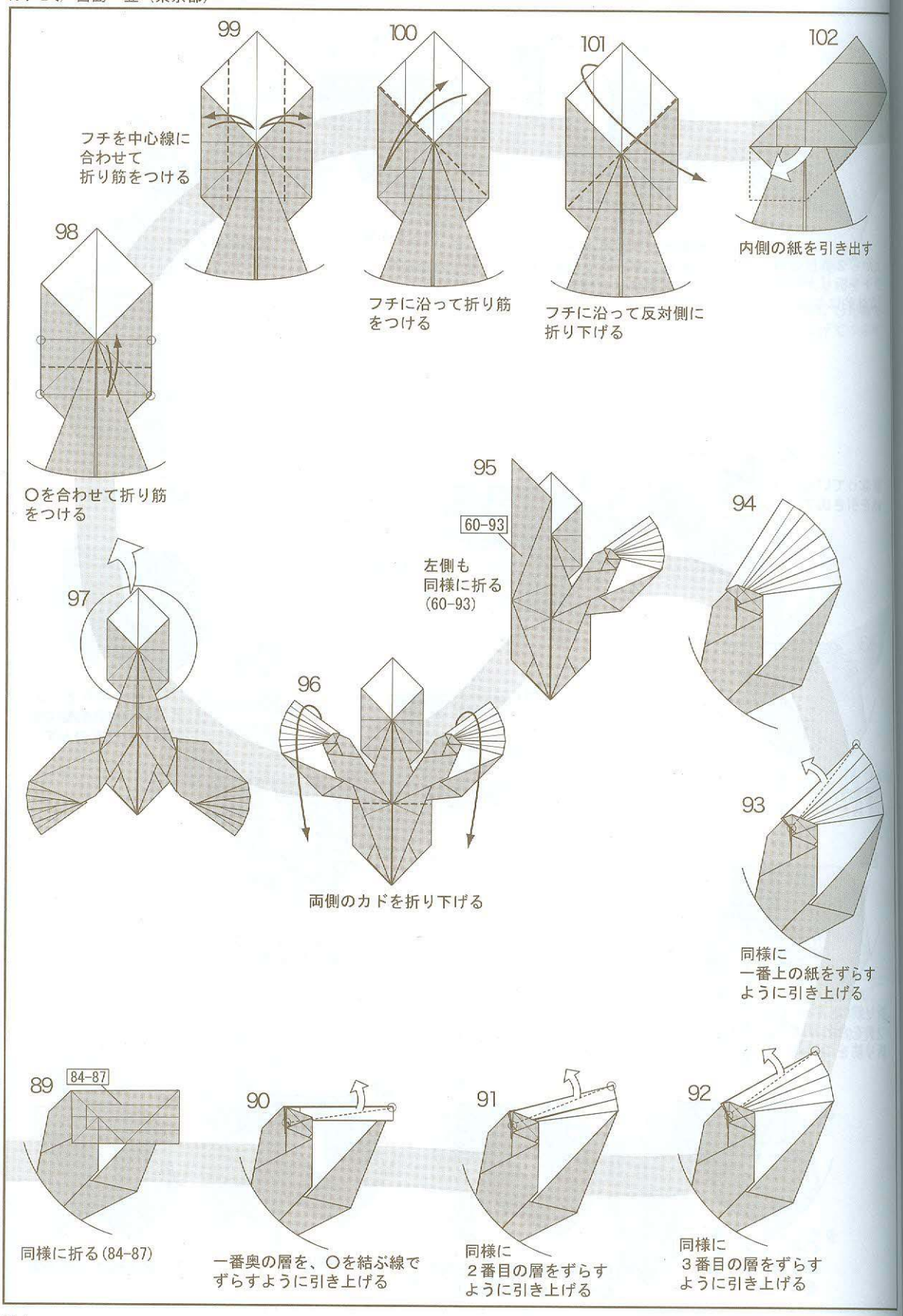

14
○を結ぶ線で折り筋をつける
15
○を起点にした線で内側を広げてつぶす
16
いったん戻す
17
○を起点にした線で内側を広げてつぶす
13
いったん戻す
21
中心線に合わせて折り筋をつける
18
いったん戻す
22
ついている折り筋でしずめ折り (Open Sink)
23
カドを右側へたおす
20
ついている折り筋で○の交点を引き上げげて頂点に合わせる
19
○の交点を通る線で折り筋をつける
24
21-22
左側も同様に折る (21-22)
25
後ろ側のカドを折り下げる
26
中心線に合わせて、重ねたまま折り筋をつける
27
濃い網掛け部分をしずめ折り (Open Sink) 次図参照

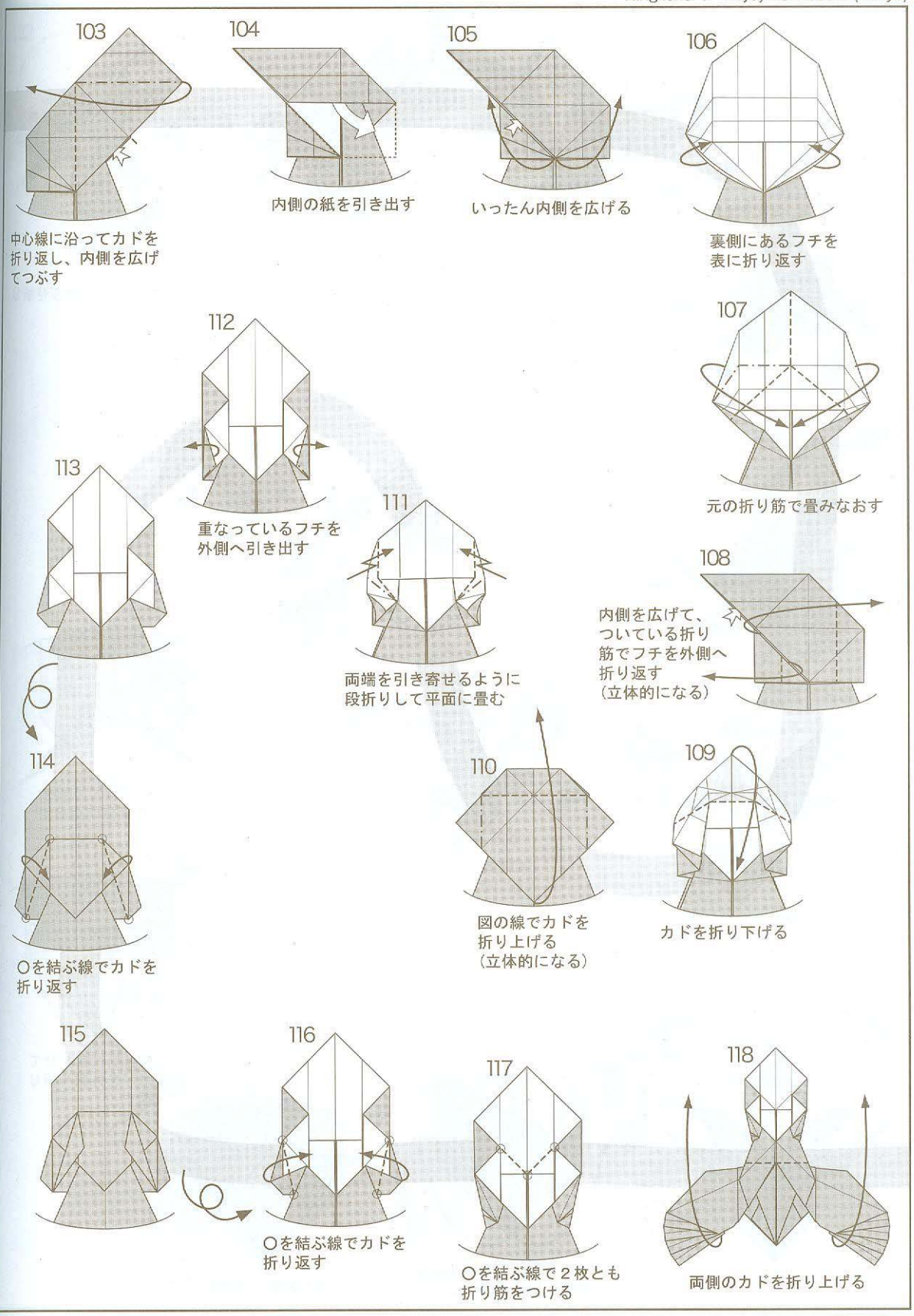

39
34-38
左側も同様に折る
(34-38)
40
○を結ぶ線でカドを
後ろへ折り返す
41
裏側のフチに沿って
折り筋をつける
42
フチを上に持ち上げる
38
フチを折り上げながら
右側へたおす
35
フチを中心線に合わせて
折り筋をつける
34
内側を広げてつぶす
33
カドを上に戻す
37
引っくり返してカドを
内側に折り込む
36
○を結ぶ線でフチを
ななめに折り上げる
32
28
[途中図]
29
カドを左側へたおす
30
26-28
右側も同様に折る
(26-28)
31
内側を広げてつぶす

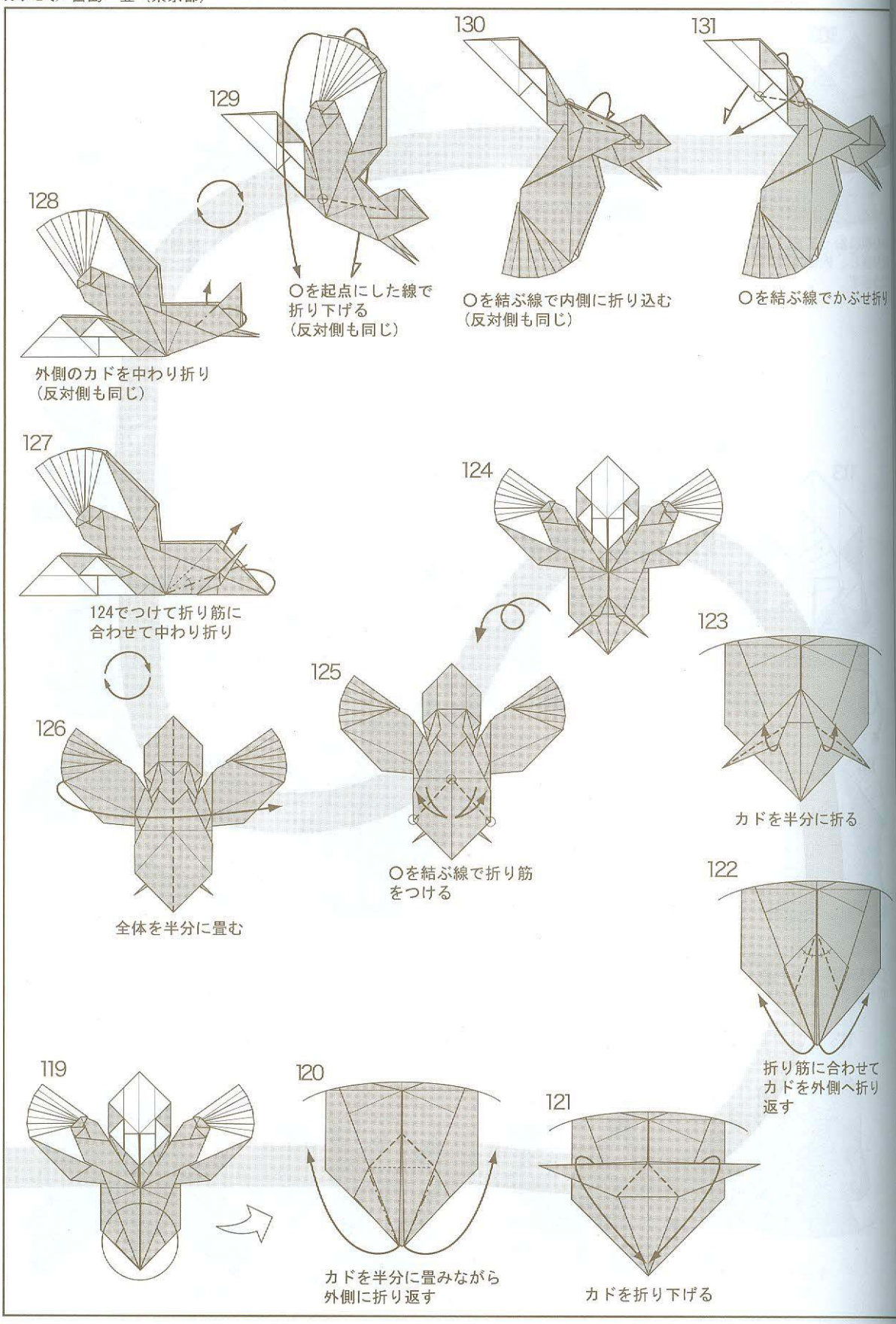

43
真ん中に寄せるように
段折りする
44
45
カドを合わせて
折り筋をつける
46
カドを左側へたおす
47
○を結ぶ線で
折り筋をつける
48
○を結ぶ線フチを折り
上げながら、引き寄せ
るように折る
49
いったん戻す
50
48と同じ折り筋で
内側に折り込む
51
フチを折り
上げながら
右側へたおす
52
47-51
左側も同様に折る
(47-51)
53
両端のカドを交点
に合わせて折り筋
をつける
54
カドを交点に合わせる
55
○を結ぶ線でカドを
持ち上げて、内側を
広げる
56
両端を中心線に寄せる
ように折り畳む
57
カドを折り下げる

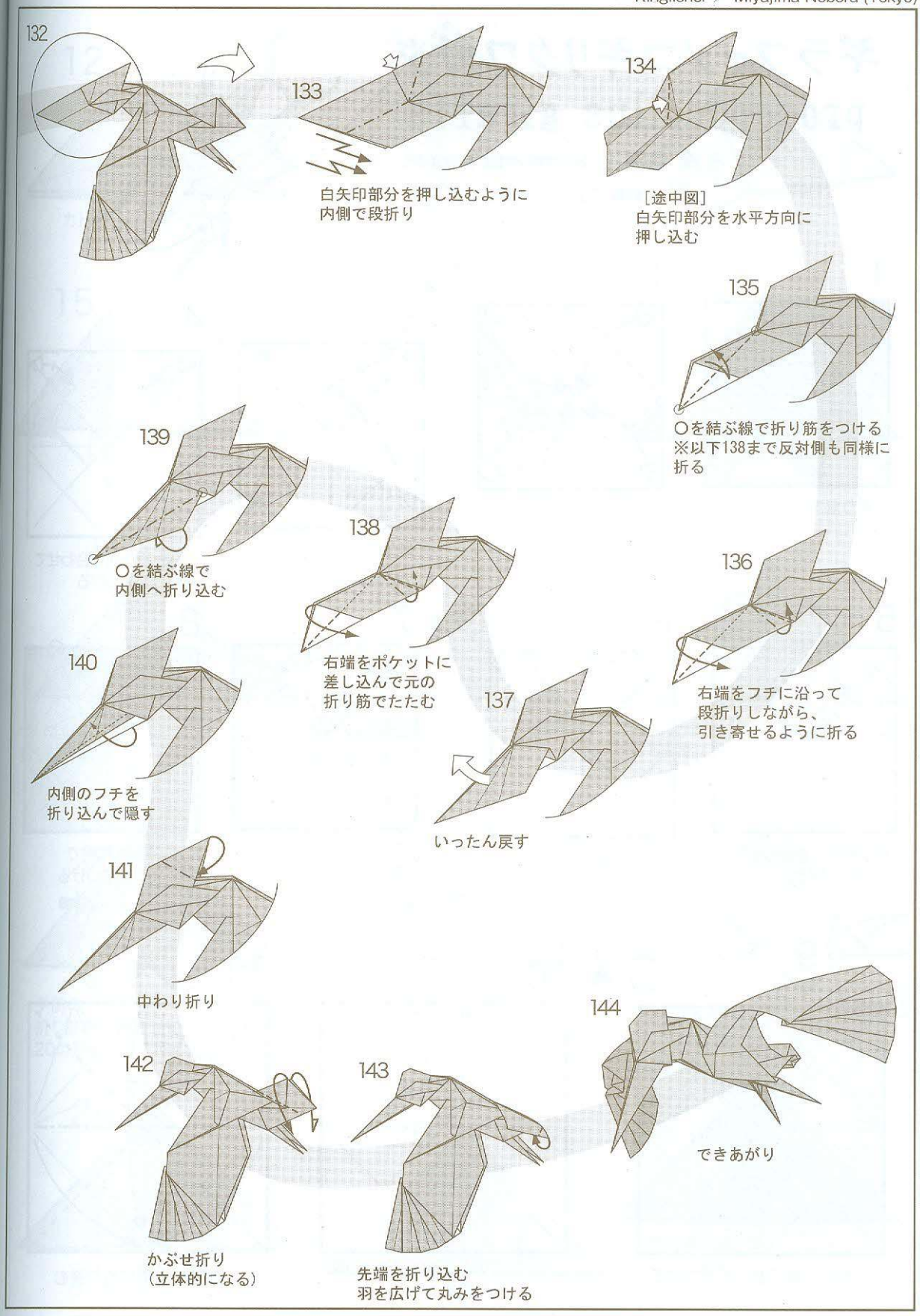

69
フチを合わせて
折り筋をつける
70
半分の幅で折り筋
をつける
71
いったん戻す
72
○を起点にした線で
内側を広げてつぶす
68
○を起点にした線で
内側を広げてつぶす
67
カドを合わせて
折り筋をつける
64
63
カドをフチの
下に隠す
66
図の基準で
折り筋をつける
65
○を
起点にして直角に
折り筋をつける
62
図の基準で
フチを下に
ずらすように
折る
58
カドを折り上げる
59
60
フチを折り筋に合わせて
外側に向けて折る
61
裏側にあるフチを
表に折り返す


73
上から２番目の線で
フチを折り上げる
(立体的になる)
74
左側のフチを外側へたおし
ながら、下から２番目の線
でフチを折り下げる
75
いったん開く
76
裏側にあるフチを
表に折り返す
77
元の折り筋で折り下げる
78
カドを○に合わせて
内側を広げてつぶす
79
内側にあるフチを
表に折り返す
80
カドを折り下げる
81
フチを合わせて
折り上げる
82
重なっている
紙を引き出す
83
フチを
１枚だけ折り下げる
84
折り筋に
フチを合わせて
折り筋をつける
85
○を
結ぶ線で折り筋
をつける
86
白矢印部分を押し込むように
しながら、全体を段折り
87
[途中図]
88
フチを３枚折り下げる


99
フチを中心線に
合わせて
折り筋をつける
100
フチに沿って折り筋
をつける
101
フチに沿って反対側に
折り下げる
102
内側の紙を引き出す
98
○を合わせて折り筋
をつける
95
60-93
左側も
同様に折る
(60-93)
94
97
96
両側のカドを折り下げる
93
同様に
一番上の紙をずらす
ように引き上げる
89
84-87
同様に折る(84-87)
90
一番奥の層を、○を結ぶ線で
ずらすように引き上げる
91
同様に
２番目の層をずらす
ように引き上げる
92
同様に
３番目の層をずらす
ように引き上げる


103
中心線に沿ってカドを
折り返し、内側を広げ
てつぶす
104
内側の紙を引き出す
105
いったん内側を広げる
106
裏側にあるフチを
表に折り返す
107
元の折り筋で畳みなおす
108
内側を広げて、
ついている折り
筋でフチを外側へ
折り返す
（立体的になる）
109
カドを折り下げる
110
図の線でカドを
折り上げる
（立体的になる）
111
両端を引き寄せるように
段折りして平面に畳む
112
重なっているフチを
外側へ引き出す
113
114
○を結ぶ線でカドを
折り返す
115
116
○を結ぶ線でカドを
折り返す
117
○を結ぶ線で２枚とも
折り筋をつける
118
両側のカドを折り上げる

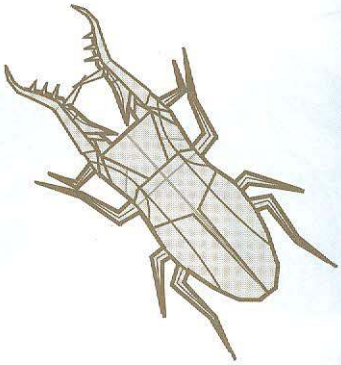

130
131
129
128
○を起点にした線で
折り下げる
（反対側も同じ）
○を結ぶ線で内側に折り込む
（反対側も同じ）
○を結ぶ線でかぶせ折り
外側のカドを中わり折り
（反対側も同じ）
127
124
124でつけて折り筋に
合わせて中わり折り
123
125
126
カドを半分に折る
○を結ぶ線で折り筋
をつける
全体を半分に畳む
122
折り筋に合わせて
カドを外側へ折り
返す
119
120
121
カドを半分に畳みながら
外側に折り返す
カドを折り下げる


132
133
白矢印部分を押し込むように
内側で段折り
134
［途中図］
白矢印部分を水平方向に
押し込む
135
○を結ぶ線で折り筋をつける
※以下138まで反対側も同様に
折る
136
右端をフチに沿って
段折りしながら、
引き寄せるように折る
137
いったん戻す
138
右端をポケットに
差し込んで元の
折り筋でたたむ
139
○を結ぶ線で
内側へ折り込む
140
内側のフチを
折り込んで隠す
141
中わり折り
142
かぶせ折り
（立体的になる）
143
先端を折り込む
羽を広げて丸みをつける
144
できあがり

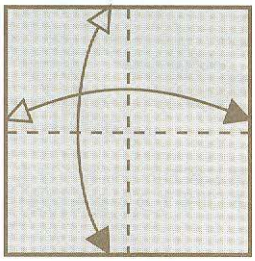
ギラファノコギリクワガタ
prosopocoilus giraffa

有澤 悠河 (14) arisawa yuga

創作:2011.11 作図:2012.5

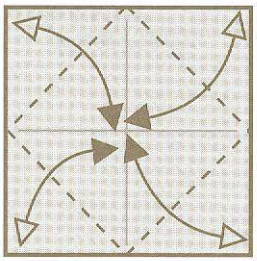


1



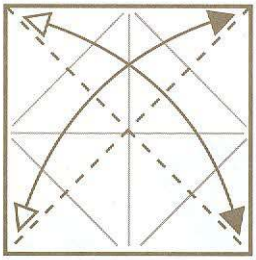
折り筋をつける

2



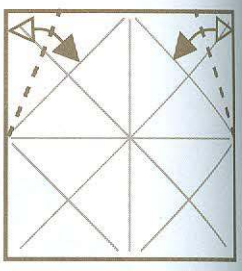
中心にあわせて
折り筋をつける

3



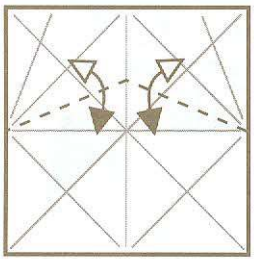
折り筋をつける

4



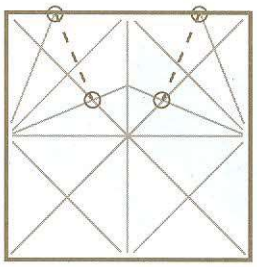
縁と折り筋を合わせて
折り筋をつける

5



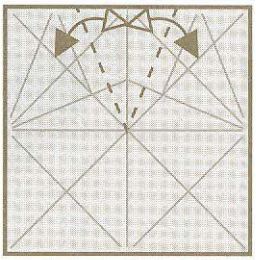
折り筋同士を合わせて
折り筋をつける

6



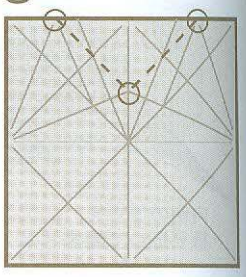
○を結ぶ線で
折り筋をつける

7



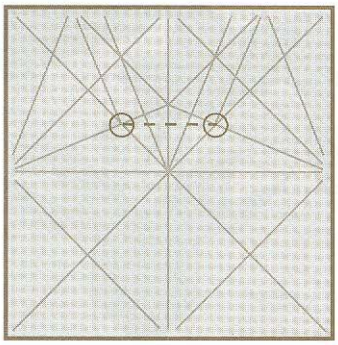
折り筋同士を合わせて
折り筋をつける

8



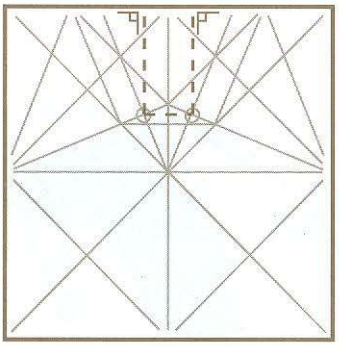
○を結ぶ線で
折り筋をつける

9



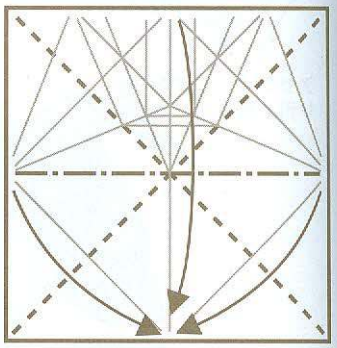
○を結ぶ線で折り筋をつける

10



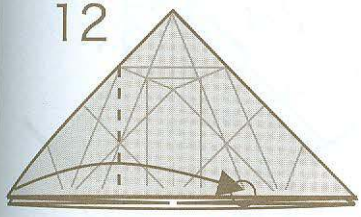
○のところで図のように
折り筋をつける

11



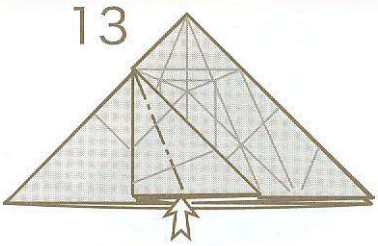
風船基本形に折り畳む

12



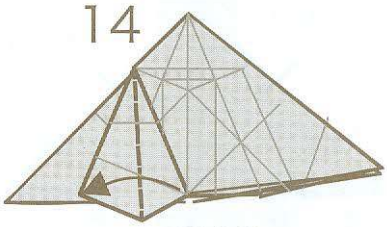
カドを○に合わせて折る

13



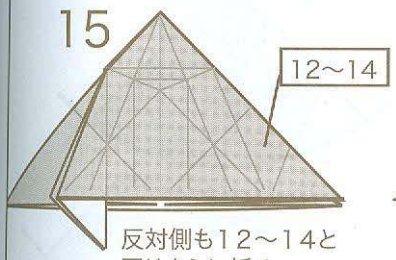
内側を広げて
つぶすように折る

14



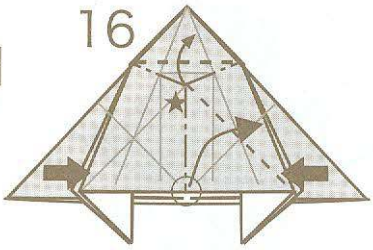
折り返す

15



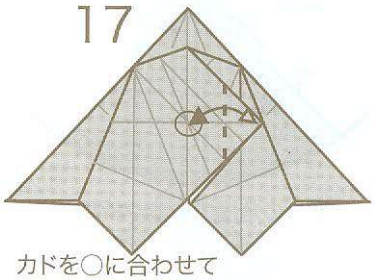
反対側も12～14と
同じように折る

16



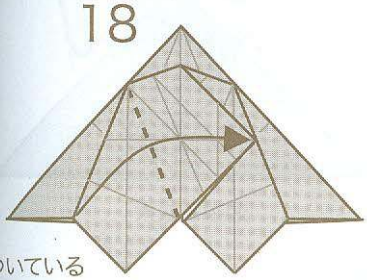
★のカドを持ち上げながら
○をずらすように折る

17



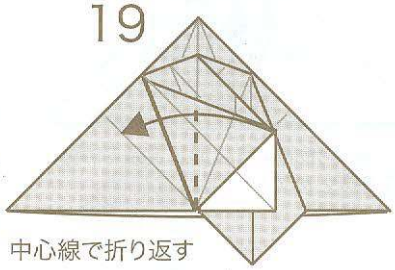
カドを○に合わせて
折り筋をつける

18



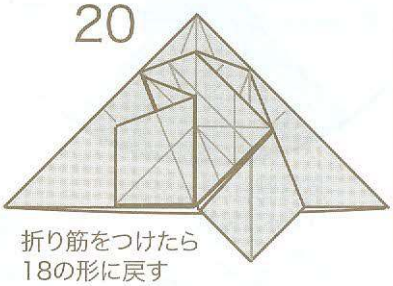
ついている
折り筋で折る

19



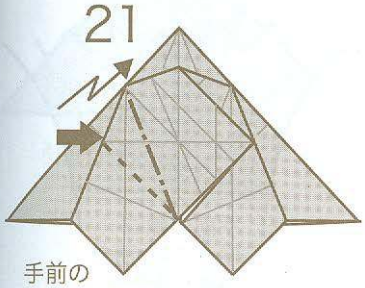
中心線で折り返す

20



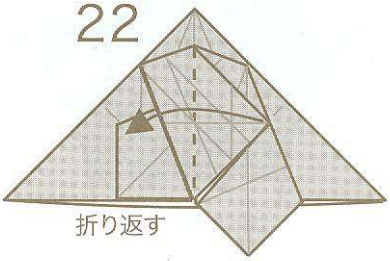
折り筋をつけたら
18の形に戻す

21



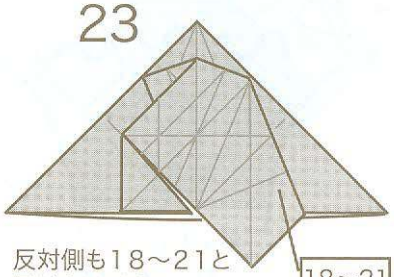
手前の
折り筋を反転させて
20の形のように押し込む

22



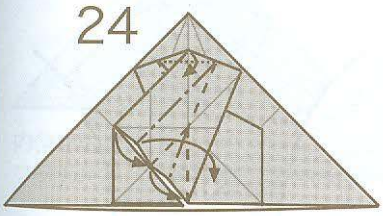
折り返す

23



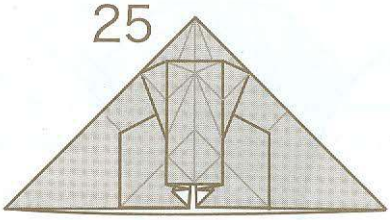
反対側も18～21と
同じように折る

24

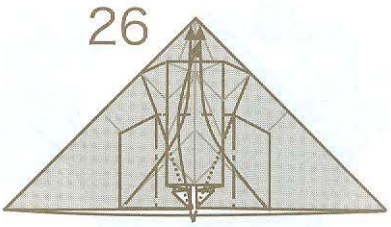


二段で内側を広げて
つぶすように折る

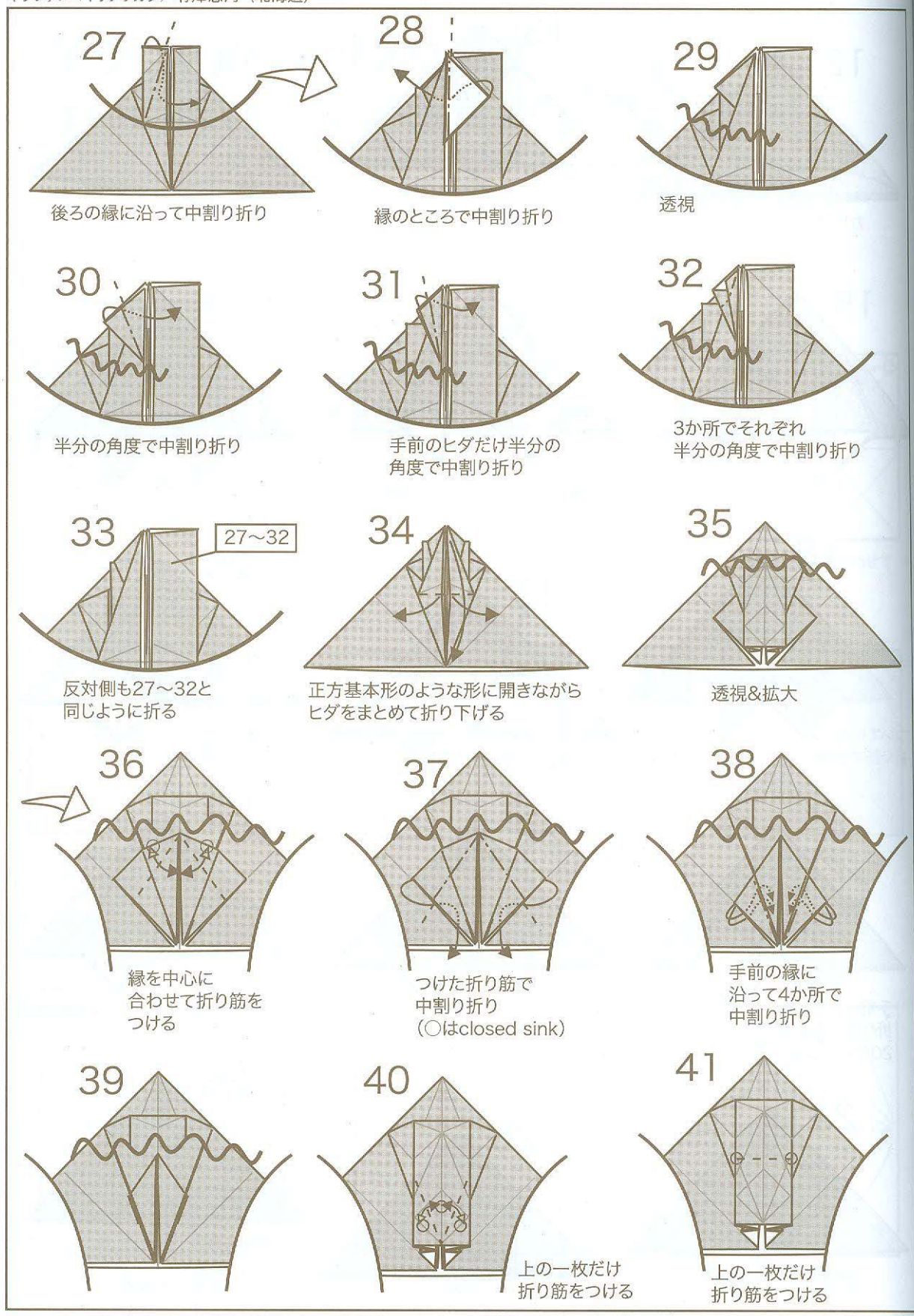
25

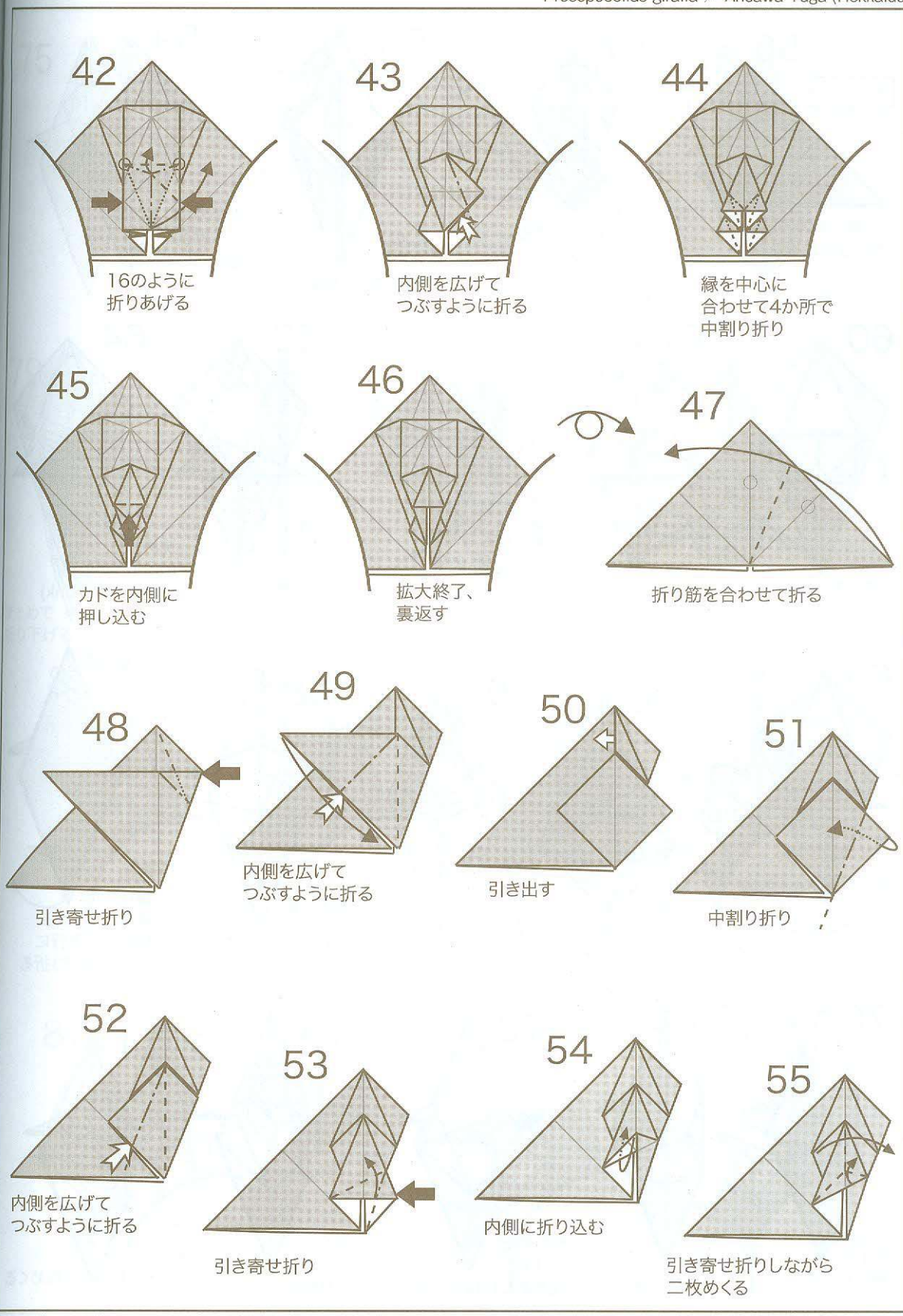


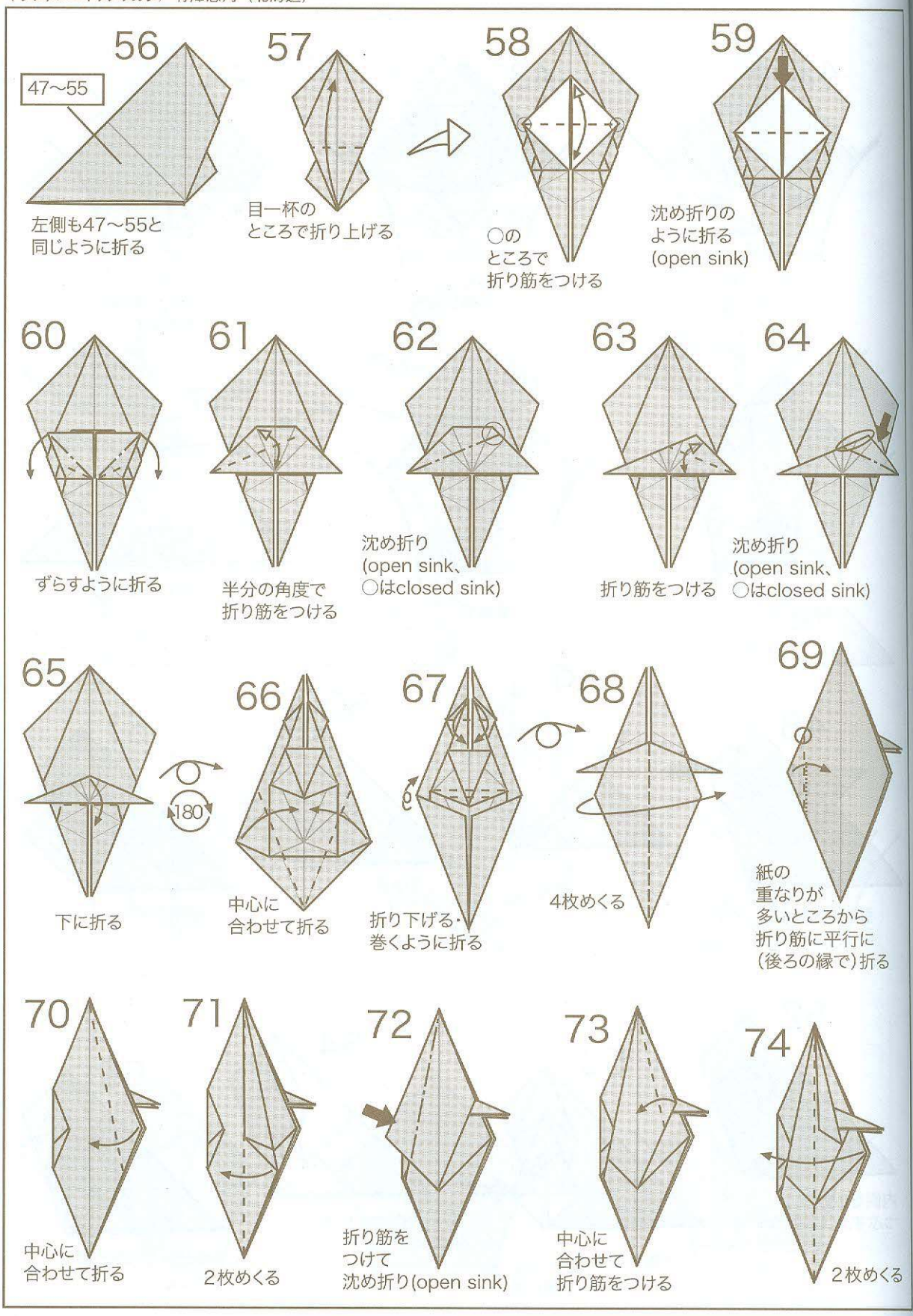
26

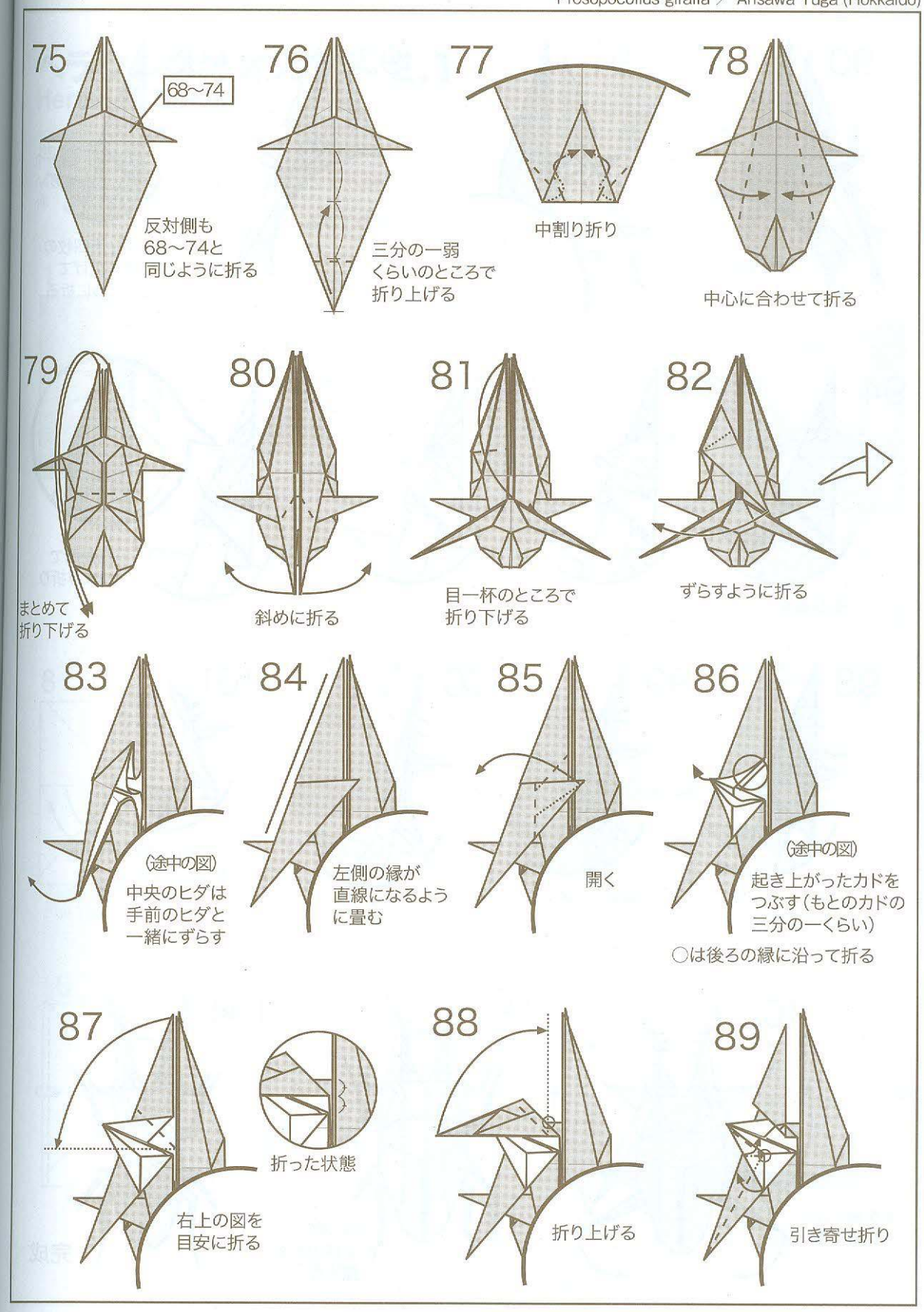


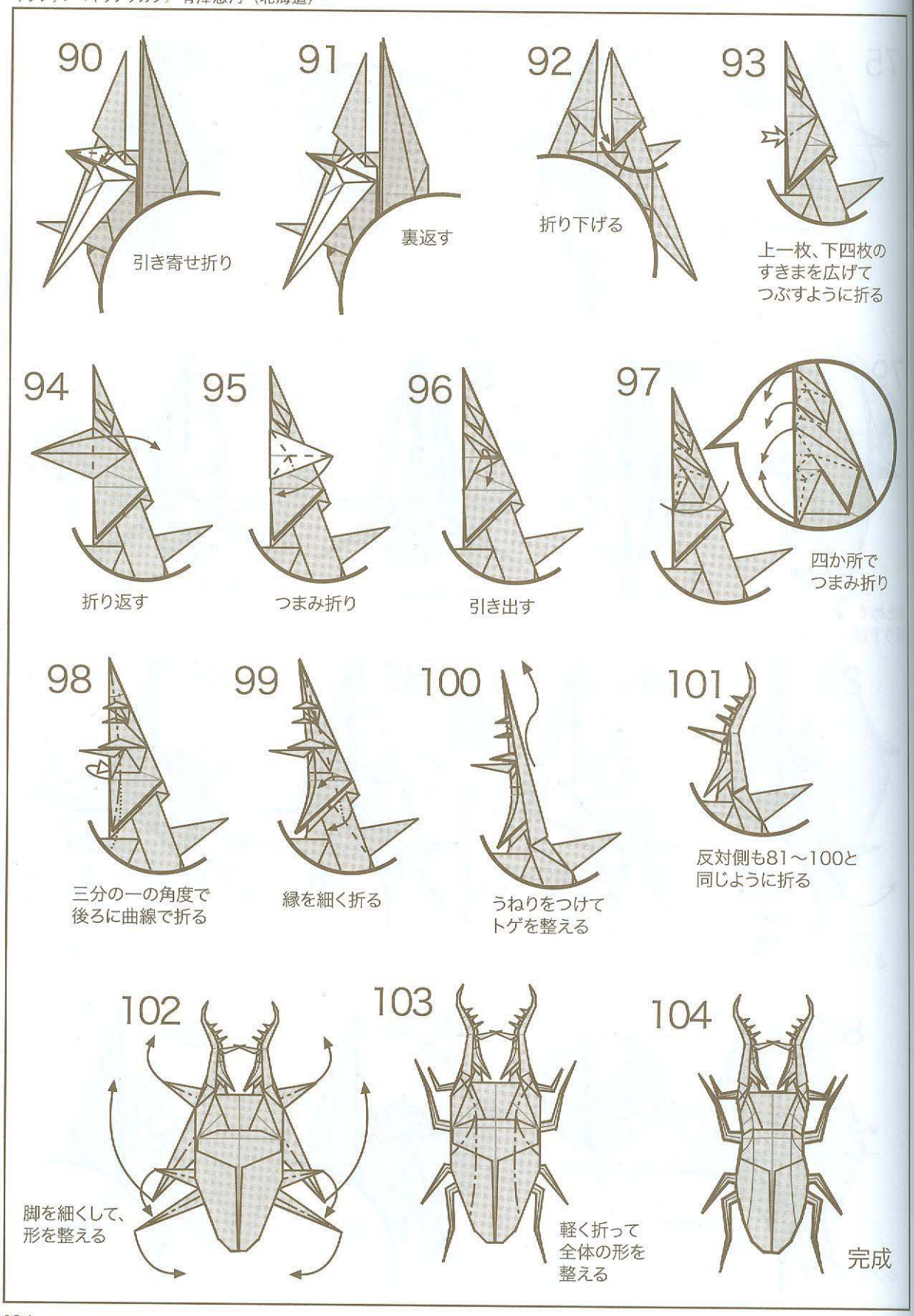
花弁折りの
ように縁を
中心に合わせて折る


27
後ろの縁に沿って中割り折り
28
縁のところで中割り折り
29
透視
30
半分の角度で中割り折り
31
手前のヒダだけ半分の
角度で中割り折り
32
3か所でそれぞれ
半分の角度で中割り折り
33
27～32
反対側も27～32と
同じように折る
34
正方基本形のような形に開きながら
ヒダをまとめて折り下げる
35
透視&拡大
36
縁を中心に
合わせて折り筋を
つける
37
つけた折り筋で
中割り折り
（○はclosed sink）
38
手前の縁に
沿って4か所で
中割り折り
39
40
上の一枚だけ
折り筋をつける
41
上の一枚だけ
折り筋をつける


42
16のように
折りあげる
43
内側を広げて
つぶすように折る
44
縁を中心に
合わせて4か所で
中割り折り
45
カドを内側に
押し込む
46
拡大終了、
裏返す
47
折り筋を合わせて折る
48
引き寄せ折り
49
内側を広げて
つぶすように折る
50
引き出す
51
中割り折り
52
内側を広げて
つぶすように折る
53
引き寄せ折り
54
内側に折り込む
55
引き寄せ折りしながら
二枚めくる

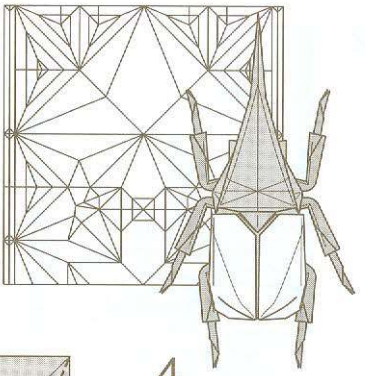

56
47〜55
左側も47〜55と
同じように折る
57
目一杯の
ところで折り上げる
58
○の
ところで
折り筋をつける
59
沈め折りの
ように折る
(open sink)
60
ずらすように折る
61
半分の角度で
折り筋をつける
62
沈め折り
(open sink、
○はclosed sink)
63
折り筋をつける
64
沈め折り
(open sink、
○はclosed sink)
65
下に折る
180
66
中心に
合わせて折る
67
折り下げる・
巻くように折る
68
4枚めくる
69
紙の
重なりが
多いところから
折り筋に平行に
(後ろの縁で)折る
70
中心に
合わせて折る
71
2枚めくる
72
折り筋を
つけて
沈め折り(open sink)
73
中心に
合わせて
折り筋をつける
74
2枚めくる


75
68～74
反対側も
68～74と
同じように折る
76
三分の一弱
くらいのところで
折り上げる
77
中割り折り
78
中心に合わせて折る
79
まとめて
折り下げる
80
斜めに折る
81
目一杯のところで
折り下げる
82
ずらすように折る
83
(途中の図)
中央のヒダは
手前のヒダと
一緒にずらす
84
左側の縁が
直線になるよう
に畳む
85
開く
86
(途中の図)
起き上がったカドを
つぶす(もとのカドの
三分の一くらい)
○は後ろの縁に沿って折る
87
折った状態
右上の図を
目安に折る
88
折り上げる
89
引き寄せ折り

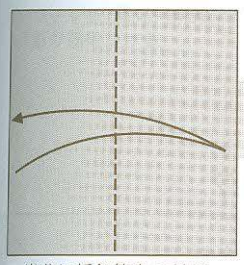

90
引き寄せ折り
91
裏返す
92
折り下げる
93
上一枚、下四枚の
すきまを広げて
つぶすように折る
94
折り返す
95
つまみ折り
96
引き出す
97
四か所で
つまみ折り
98
三分の一の角度で
後ろに曲線で折る
99
縁を細く折る
100
うねりをつけて
トゲを整える
101
反対側も81～100と
同じように折る
102
脚を細くして、
形を整える
103
軽く折って
全体の形を
整える
104
完成

ヘラクレスオオカブト 2.1
Hercules Beetle

神谷哲史
Model & Diagrams by Satoshi Kamiya
作 2010/12/xx

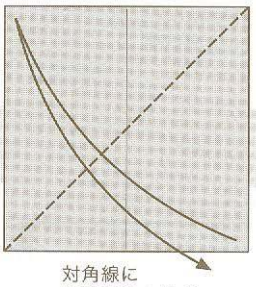


1



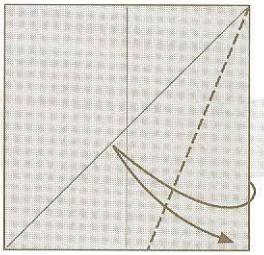
半分に折り筋をつける

2



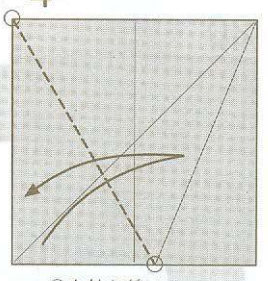
対角線に
折り筋をつける

3



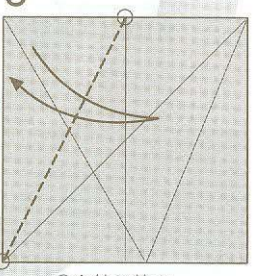
フチを対角線に合わせて
折り筋をつける

4



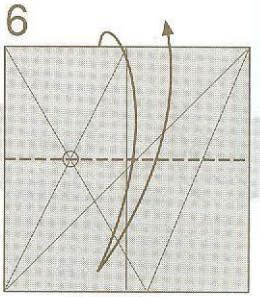
○を結ぶ線で
折り筋をつける

5



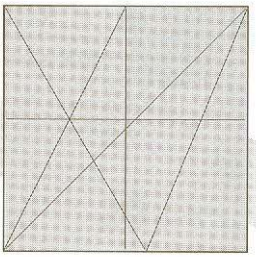
○を結ぶ線で
折り筋をつける

6



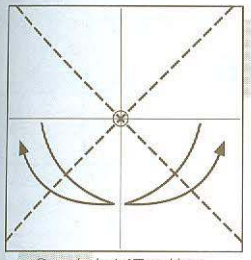
○の交点で
折り筋をつける

7



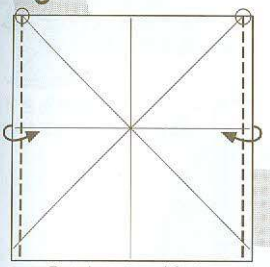
2-5 までの折り筋は
以降表示しない

8



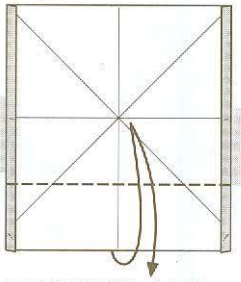
○の交点を通る線で
折り筋をつける

9



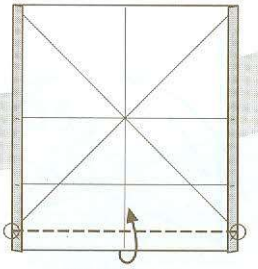
○のところで折る

10



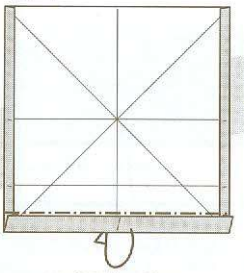
フチを折り筋に合わせて
折り筋をつける

11

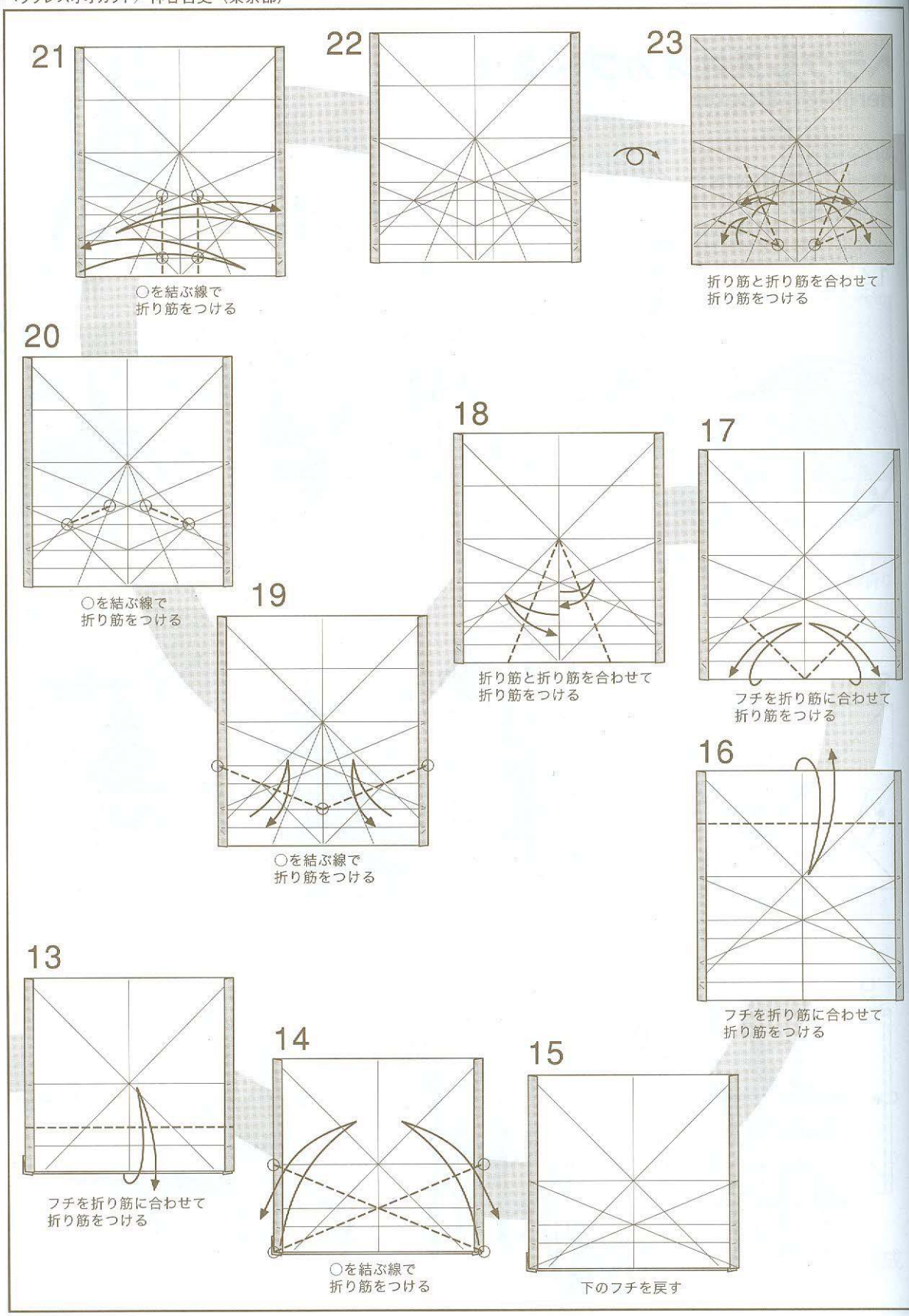


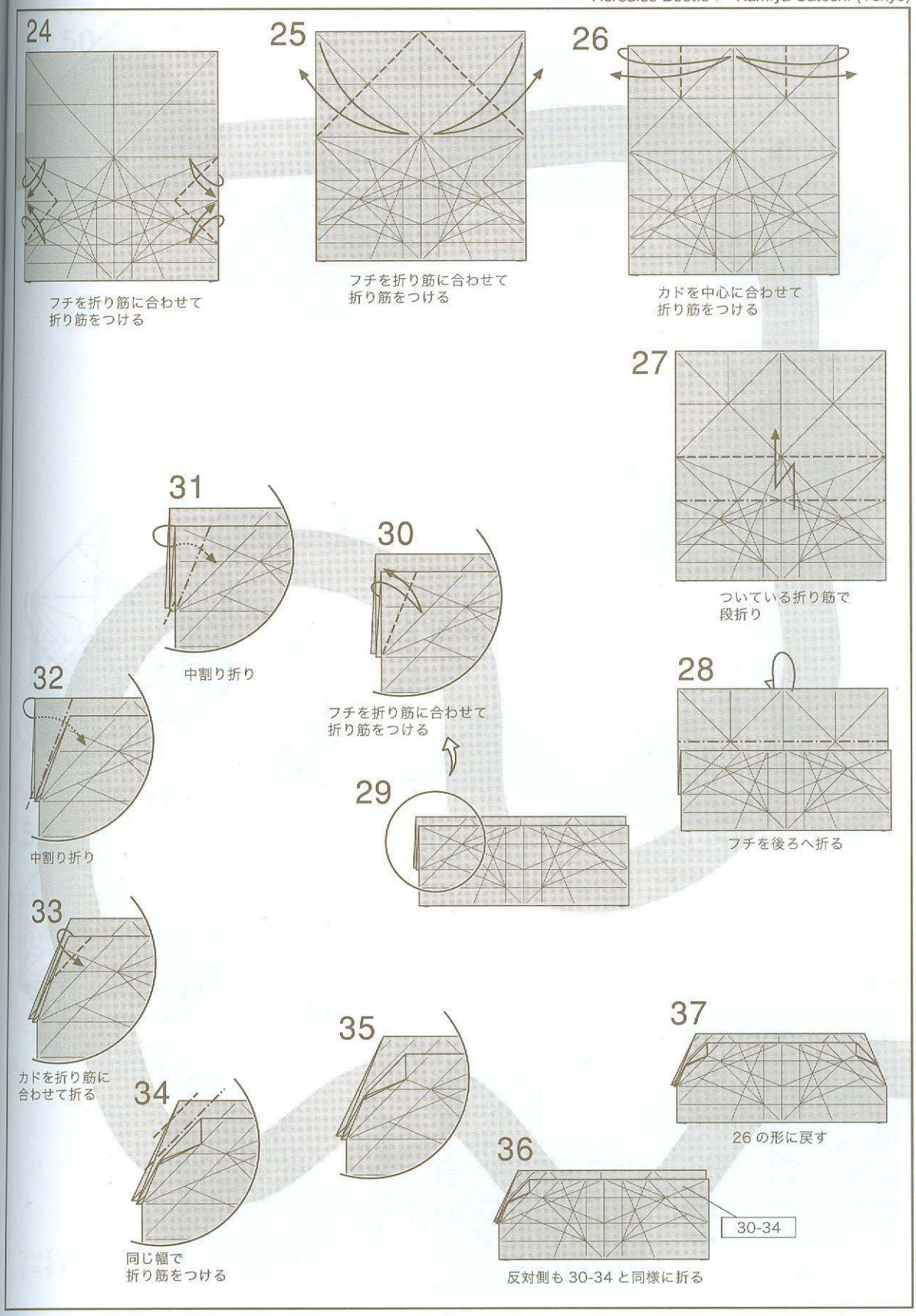
○を結ぶ線で
折り筋をつける

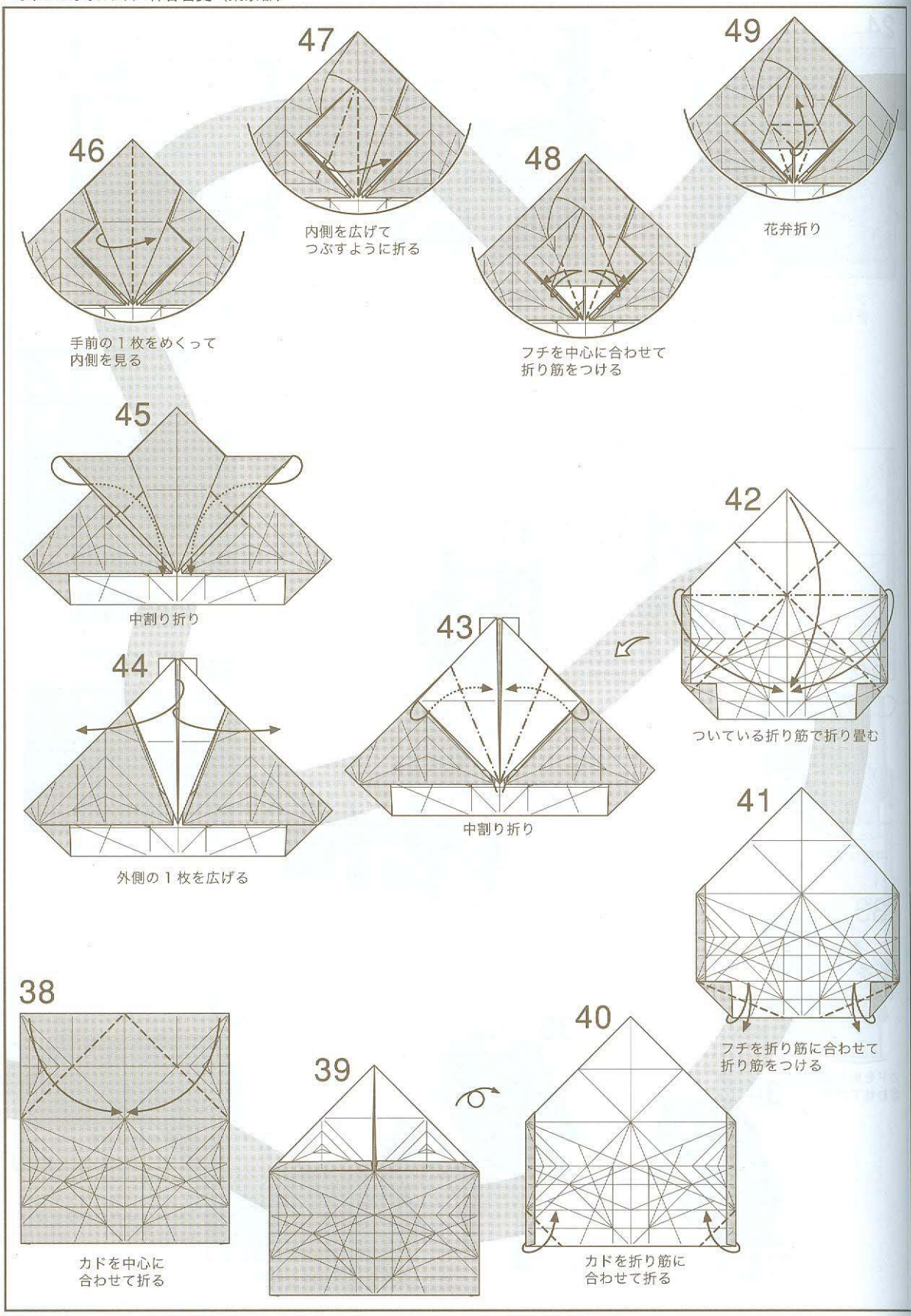
12

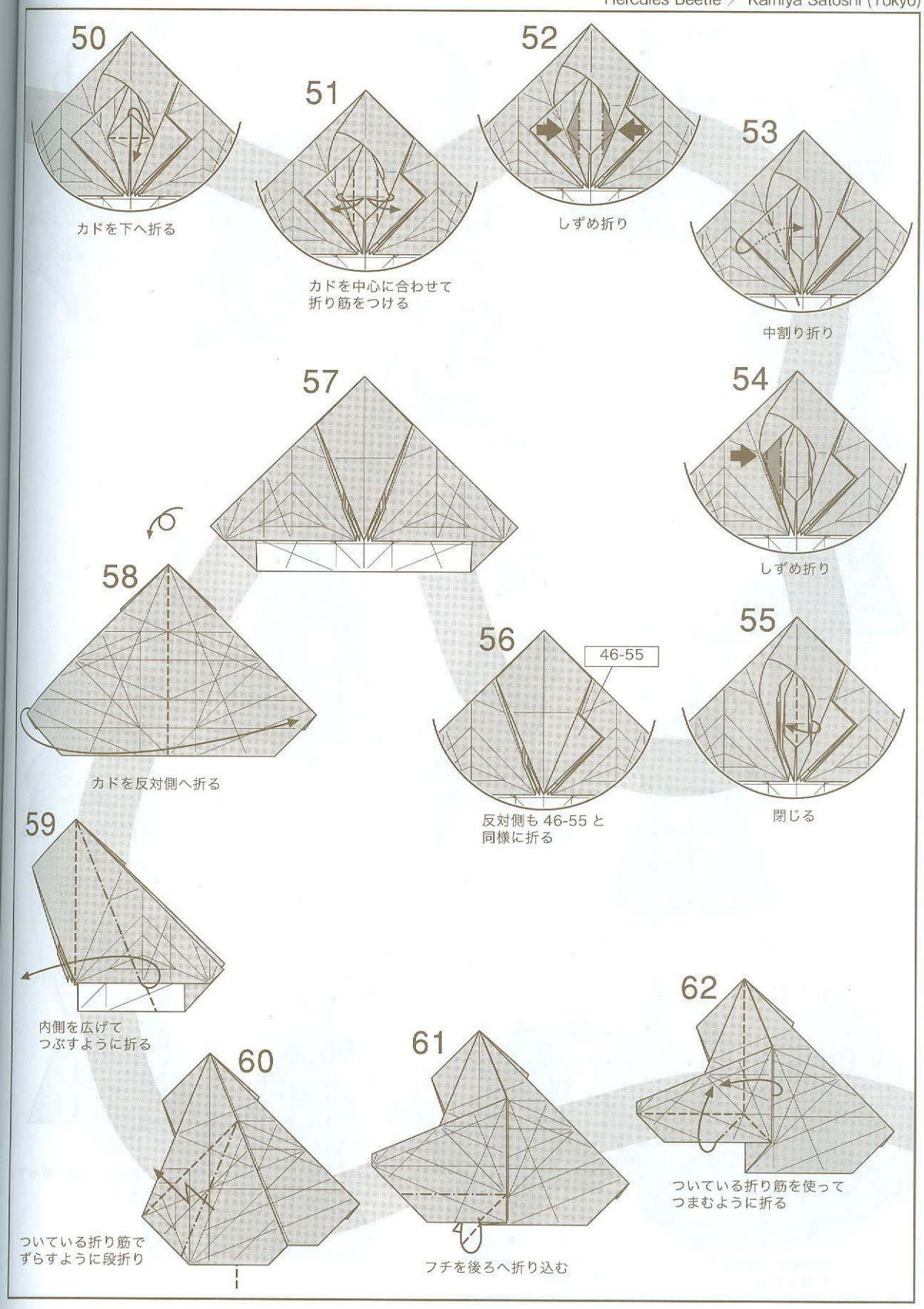


フチのところで
後ろへ折る

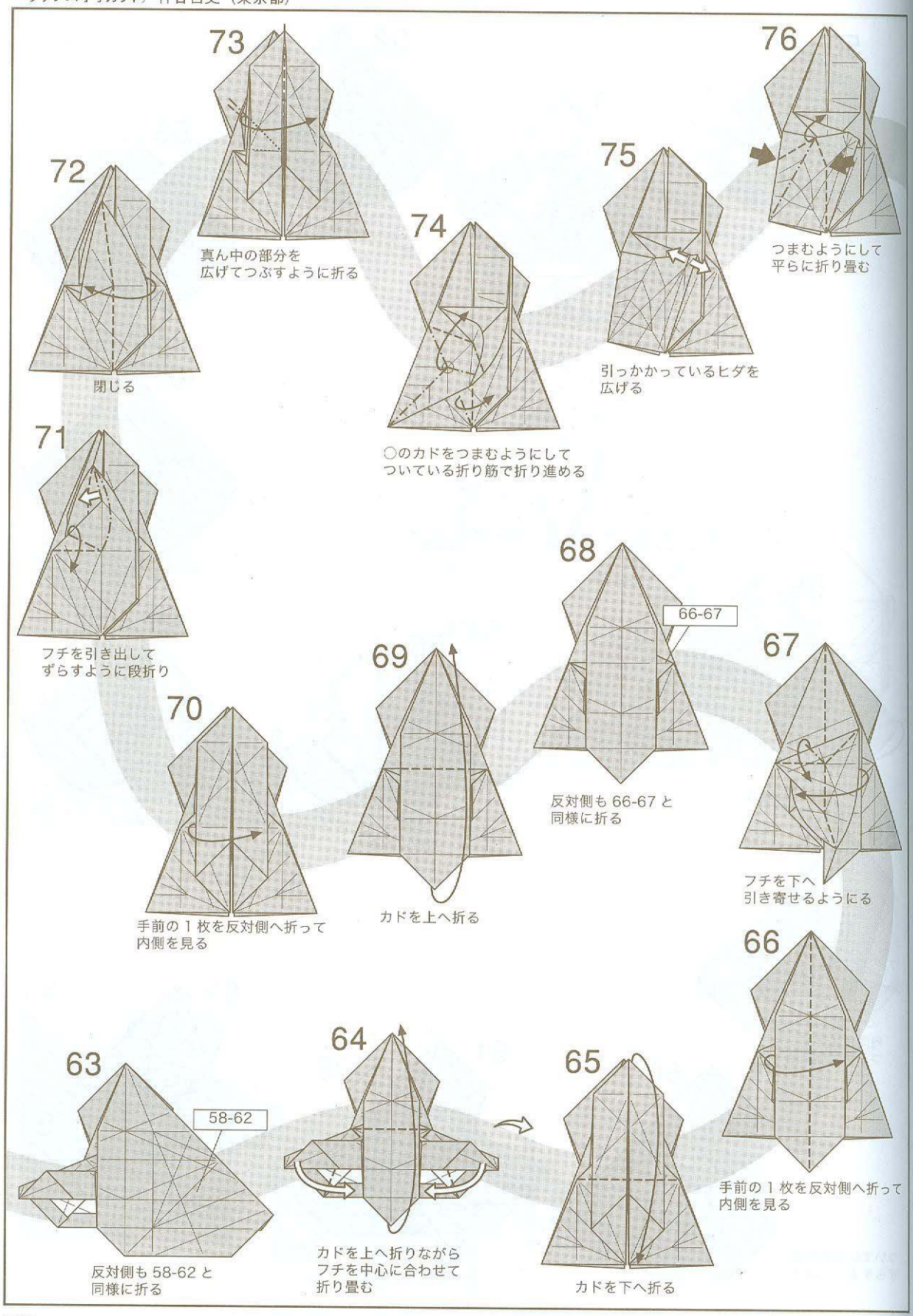

21
○を結ぶ線で
折り筋をつける
22
23
折り筋と折り筋を合わせて
折り筋をつける
20
○を結ぶ線で
折り筋をつける
18
折り筋と折り筋を合わせて
折り筋をつける
17
フチを折り筋に合わせて
折り筋をつける
19
○を結ぶ線で
折り筋をつける
16
フチを折り筋に合わせて
折り筋をつける
13
フチを折り筋に合わせて
折り筋をつける
14
○を結ぶ線で
折り筋をつける
15
下のフチを戻す

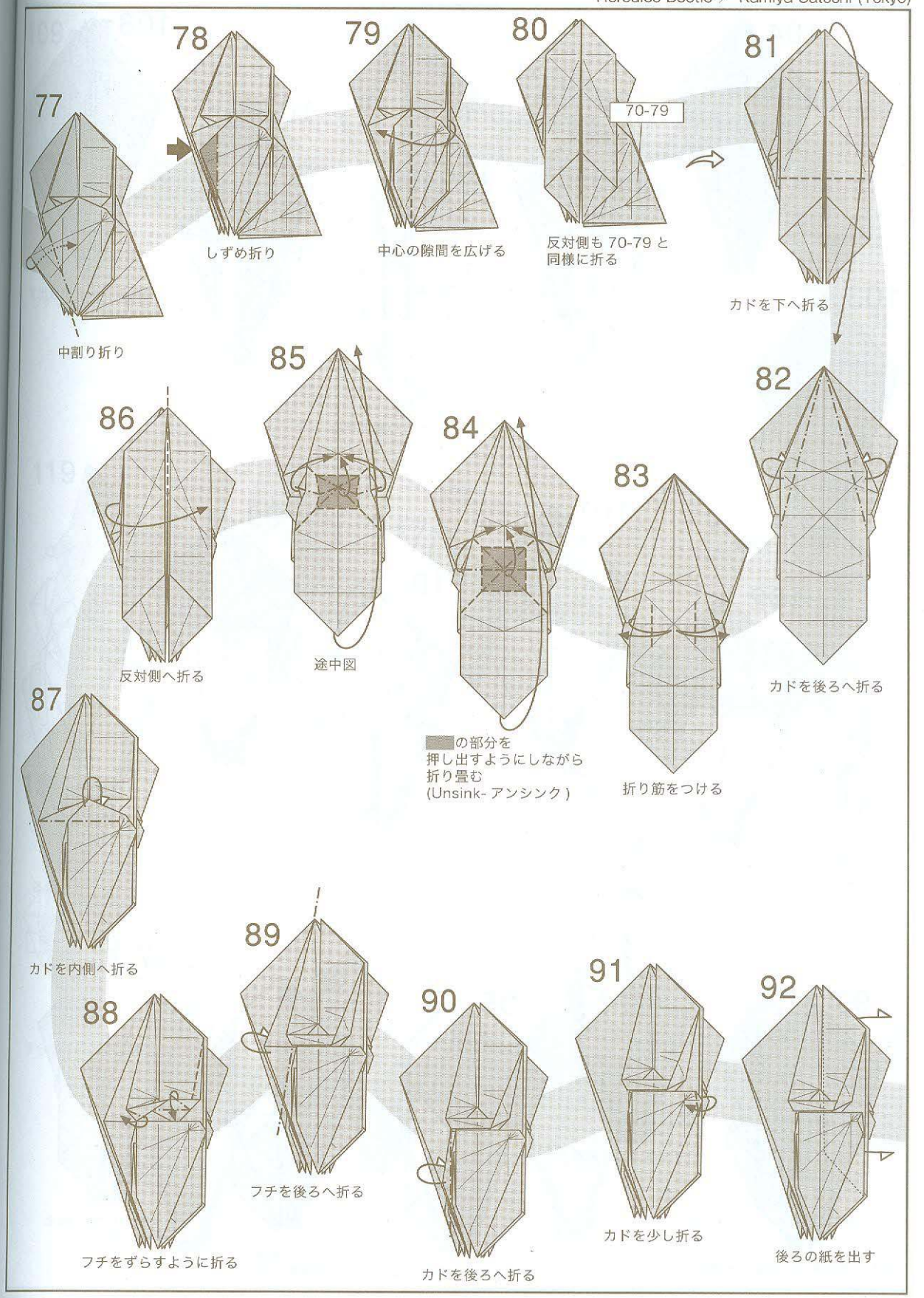

24
フチを折り筋に合わせて
折り筋をつける
25
フチを折り筋に合わせて
折り筋をつける
26
カドを中心に合わせて
折り筋をつける
27
ついている折り筋で
段折り
28
フチを後ろへ折る
29
30
フチを折り筋に合わせて
折り筋をつける
31
中割り折り
32
中割り折り
33
カドを折り筋に
合わせて折る
34
同じ幅で
折り筋をつける
35
36
反対側も 30-34 と同様に折る
30-34
37
26 の形に戻す

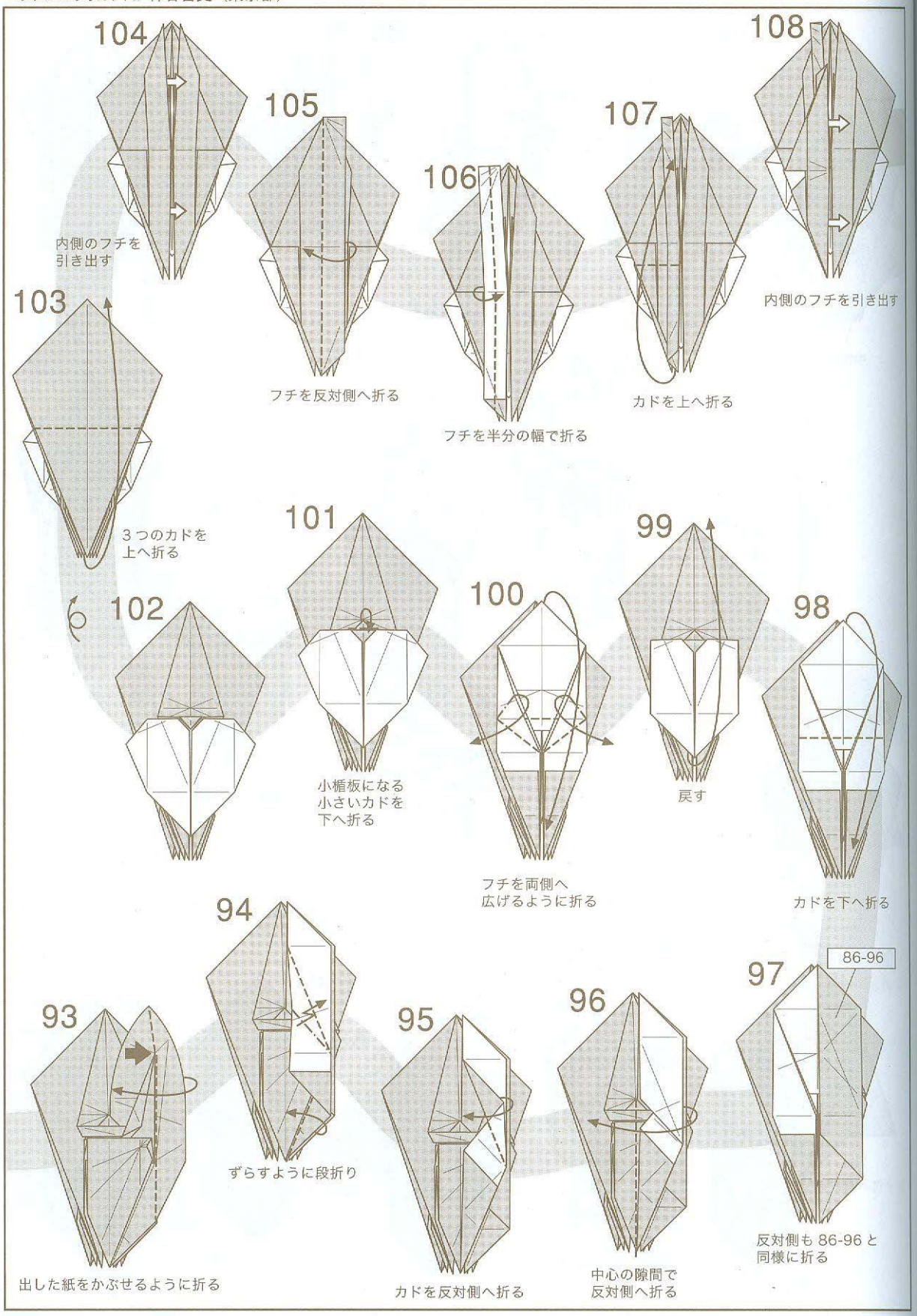

47
内側を広げて
つぶすように折る
49
花弁折り
46
手前の１枚をめくって
内側を見る
48
フチを中心に合わせて
折り筋をつける
45
中割り折り
42
ついている折り筋で折り畳む
43
中割り折り
44
外側の１枚を広げる
41
フチを折り筋に合わせて
折り筋をつける
38
カドを中心に
合わせて折る
39
40
カドを折り筋に
合わせて折る

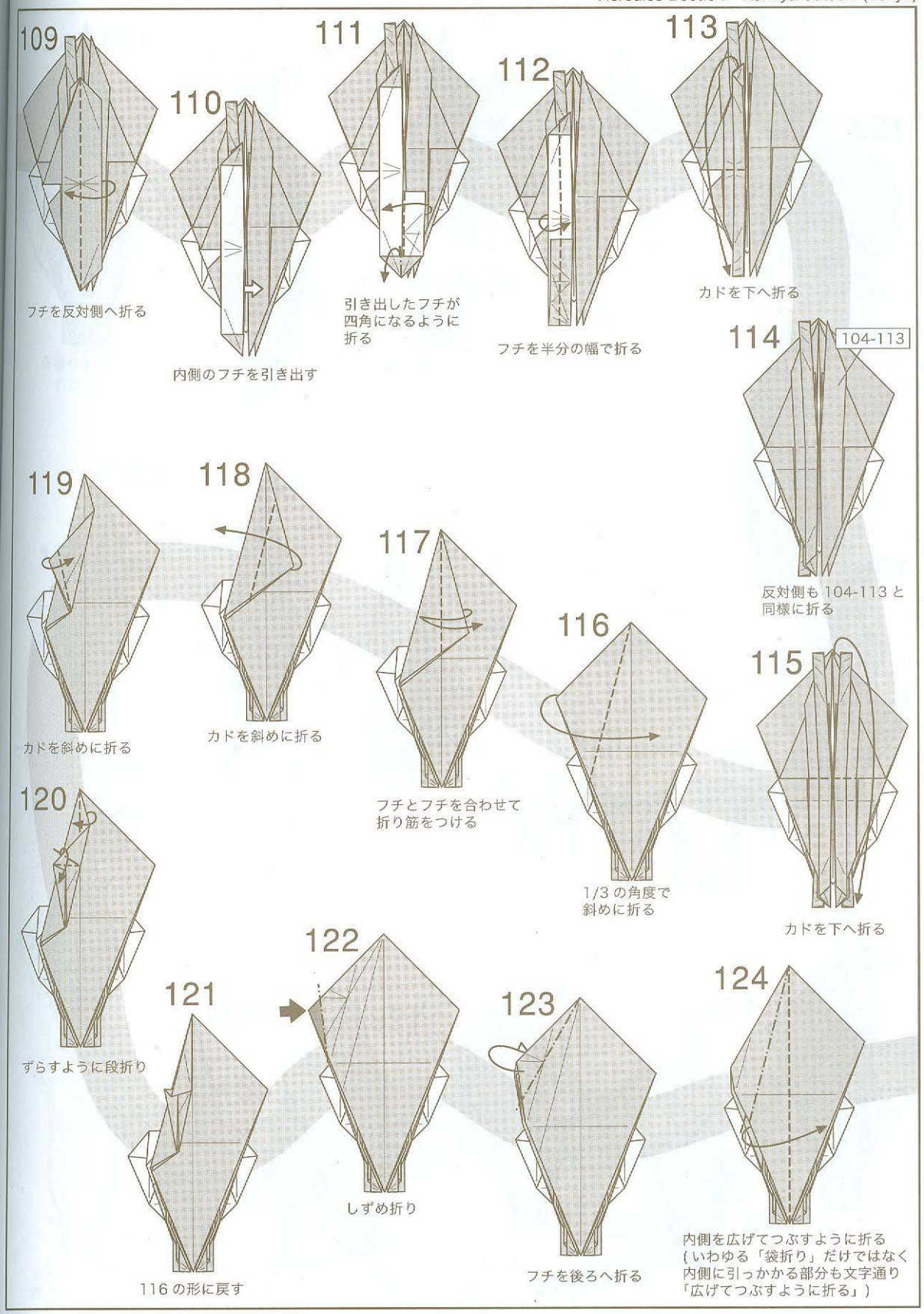

50
カドを下へ折る
51
カドを中心に合わせて
折り筋をつける
52
しずめ折り
53
中割り折り
54
しずめ折り
55
閉じる
56
46-55
反対側も 46-55 と
同様に折る
57
58
カドを反対側へ折る
59
内側を広げて
つぶすように折る
60
ついている折り筋で
ずらすように段折り
61
フチを後ろへ折り込む
62
ついている折り筋を使って
つまむように折る

ヘラクレスオオカブト／神谷哲史（東京都）

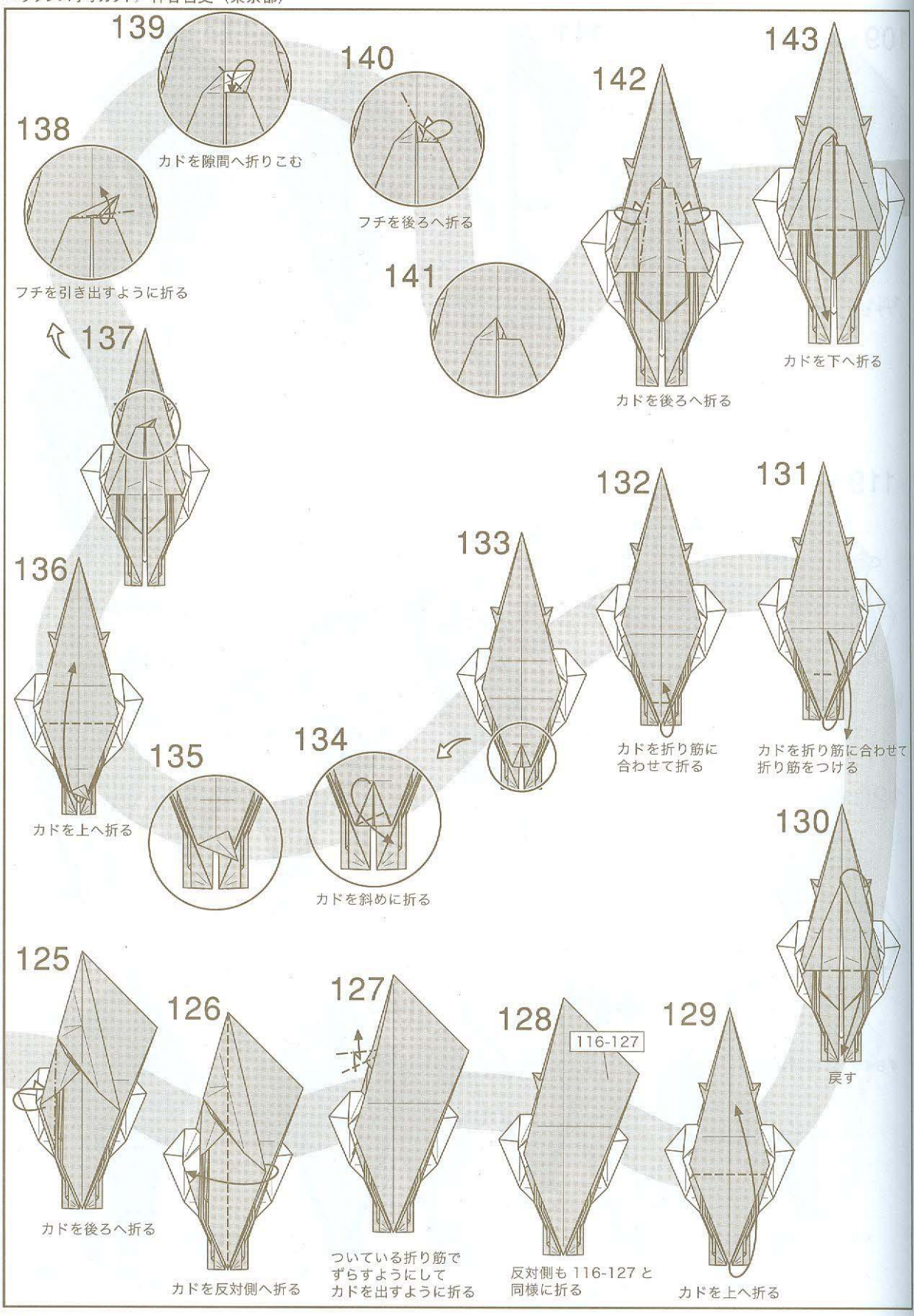


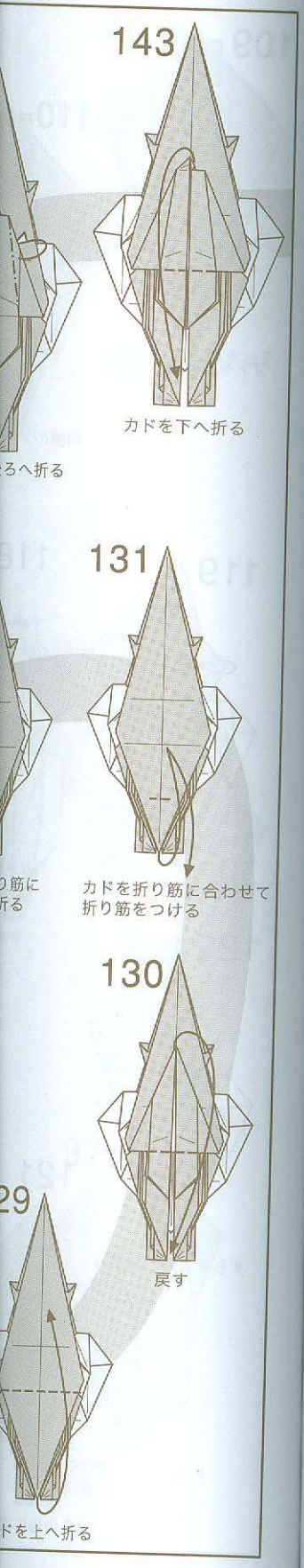

77
中割り折り
78
しずめ折り
79
中心の隙間を広げる
80
70-79
反対側も 70-79 と
同様に折る
81
カドを下へ折る
82
カドを後ろへ折る
83
折り筋をつける
84
の部分を
押し出すようにしながら
折り畳む
(Unsink- アンシンク)
85
途中図
86
反対側へ折る
87
カドを内側へ折る
88
フチをずらすように折る
89
フチを後ろへ折る
90
カドを後ろへ折る
91
カドを少し折る
92
後ろの紙を出す

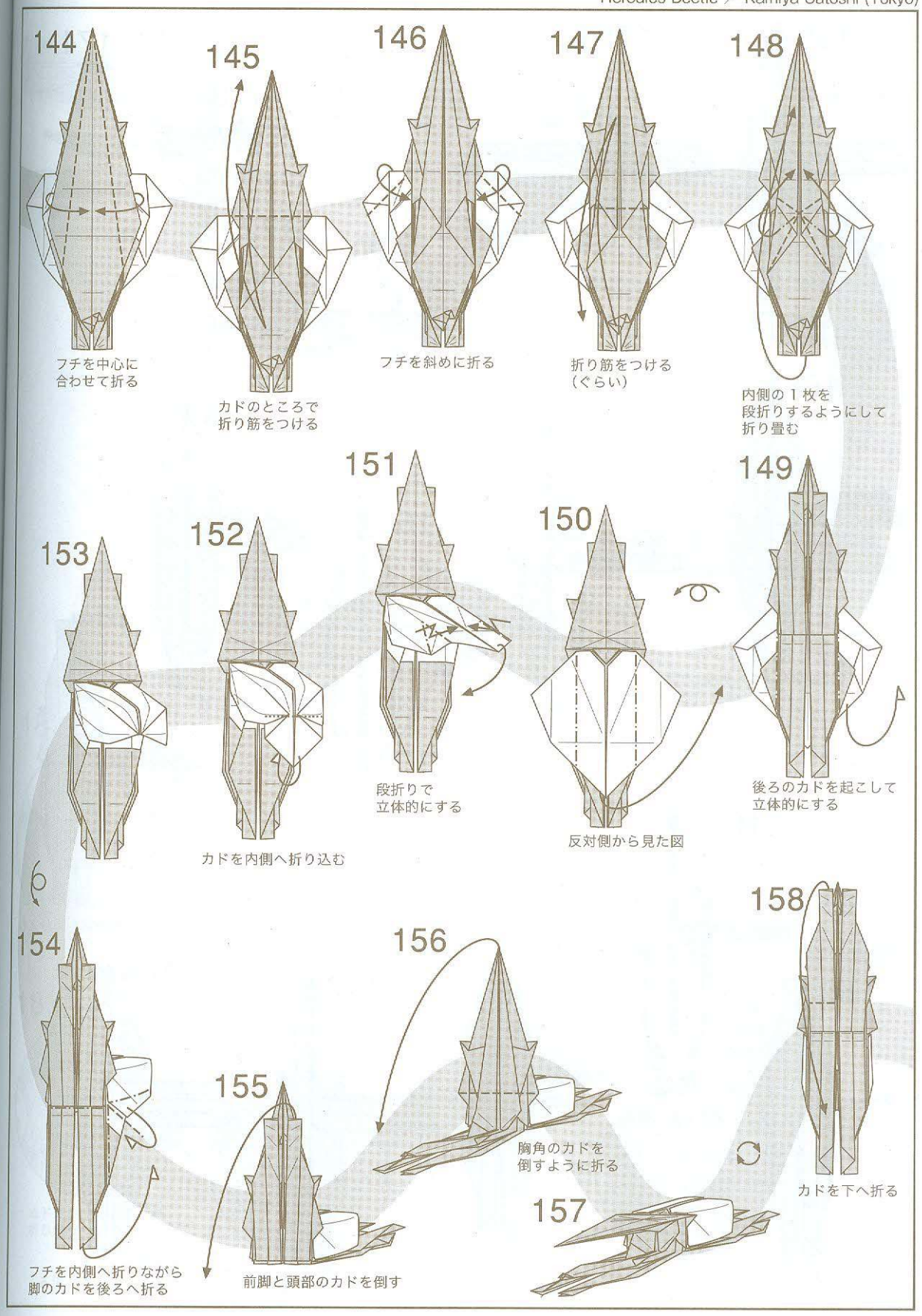

104
内側のフチを
引き出す
105
フチを反対側へ折る
106
フチを半分の幅で折る
107
カドを上へ折る
108
内側のフチを引き出す
103
3つのカドを
上へ折る
101
小楯板になる
小さいカドを
下へ折る
102
100
フチを両側へ
広げるように折る
99
戻す
98
カドを下へ折る
94
ずらすように段折り
93
出した紙をかぶせるように折る
95
カドを反対側へ折る
96
中心の隙間で
反対側へ折る
97
86-96
反対側も 86-96 と
同様に折る

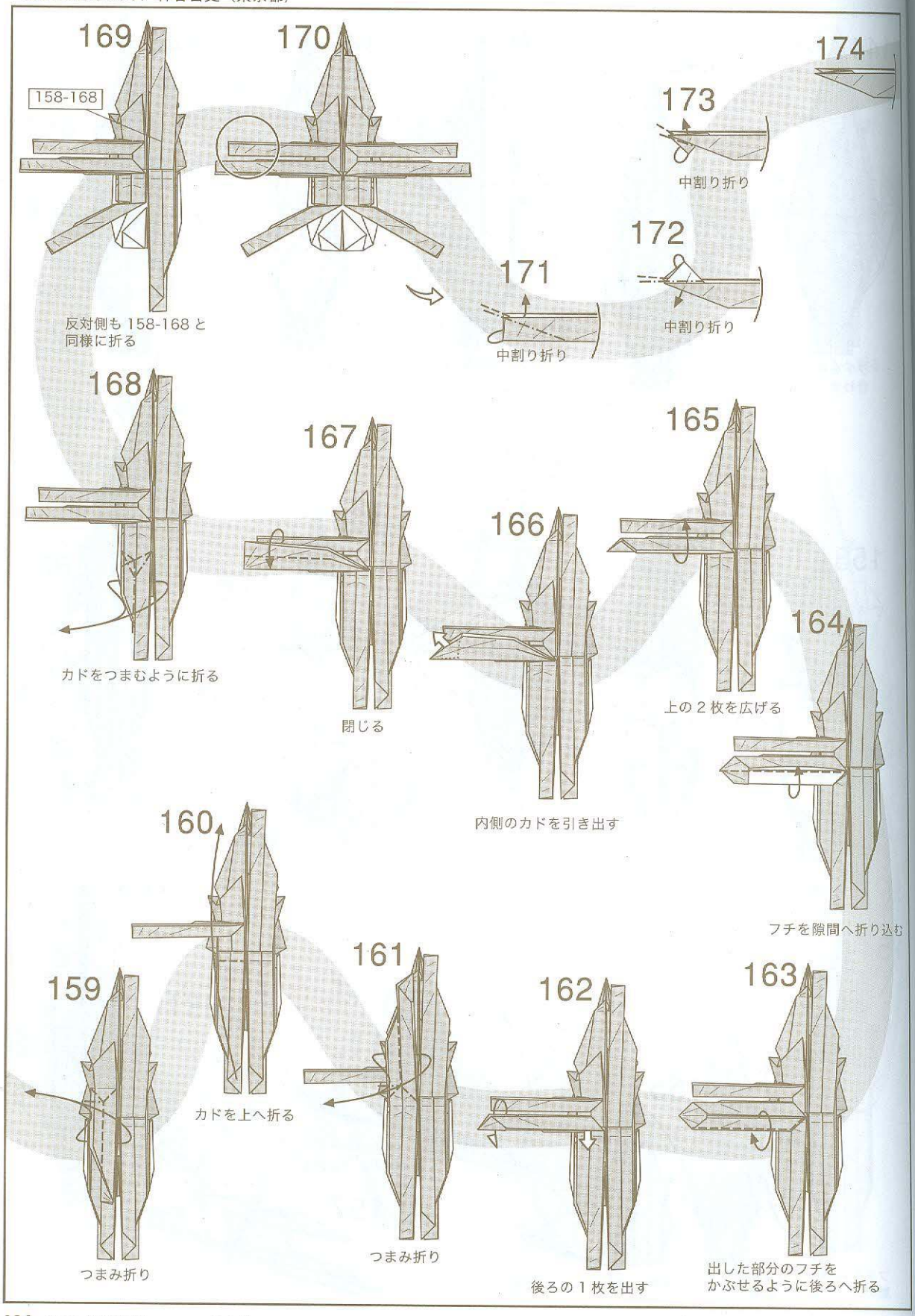

109
フチを反対側へ折る
110
内側のフチを引き出す
111
引き出したフチが
四角になるように
折る
112
フチを半分の幅で折る
113
カドを下へ折る
114
104-113
反対側も 104-113 と
同様に折る
115
カドを下へ折る
116
1/3 の角度で
斜めに折る
117
フチとフチを合わせて
折り筋をつける
118
カドを斜めに折る
119
カドを斜めに折る
120
ずらすように段折り
121
116 の形に戻す
122
しずめ折り
123
フチを後ろへ折る
124
内側を広げてつぶすように折る
(いわゆる「袋折り」だけではなく
内側に引っかかる部分も文字通り
「広げてつぶすように折る」)

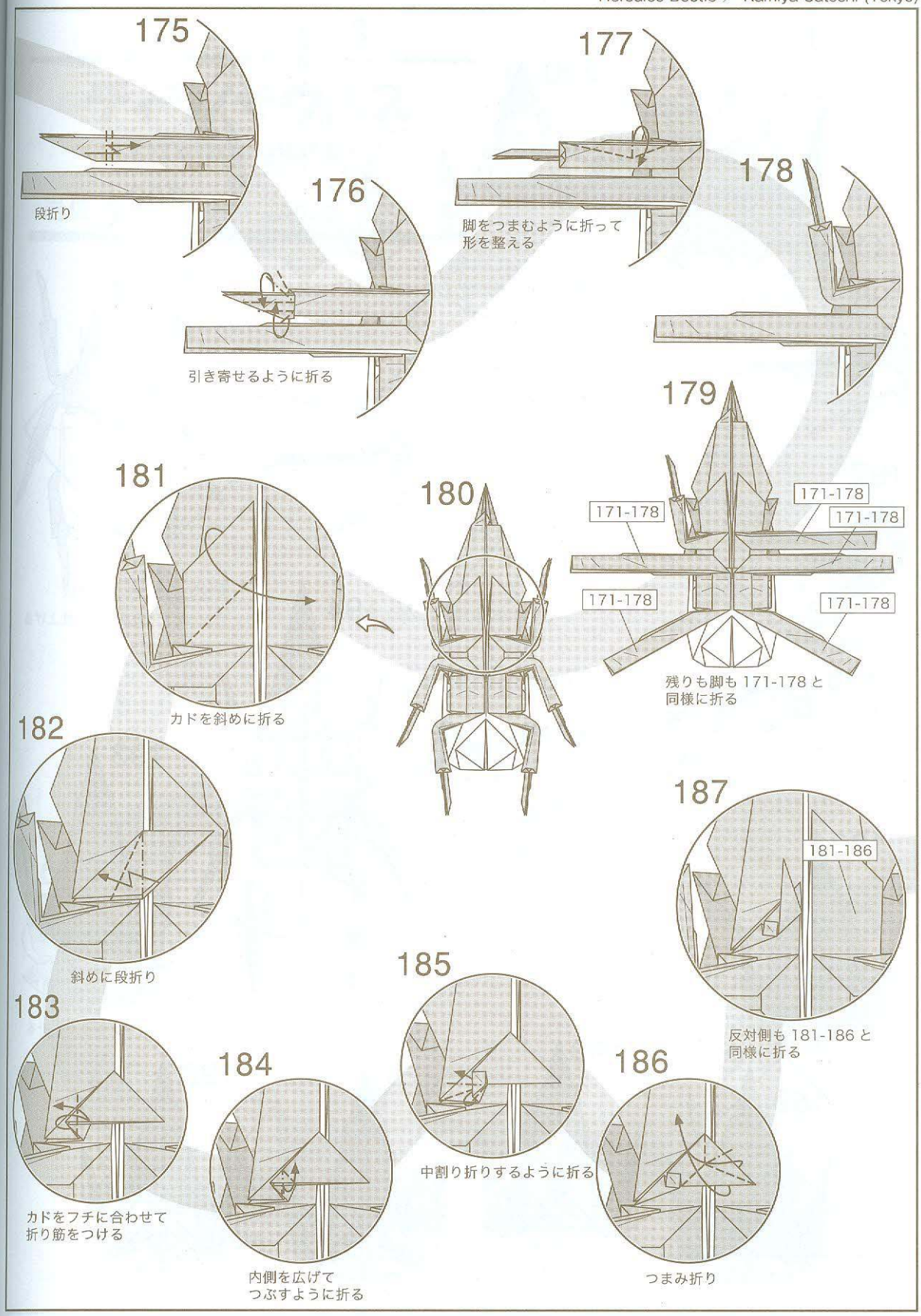
ヘラクレスオオカブト／神谷哲史（東京都）

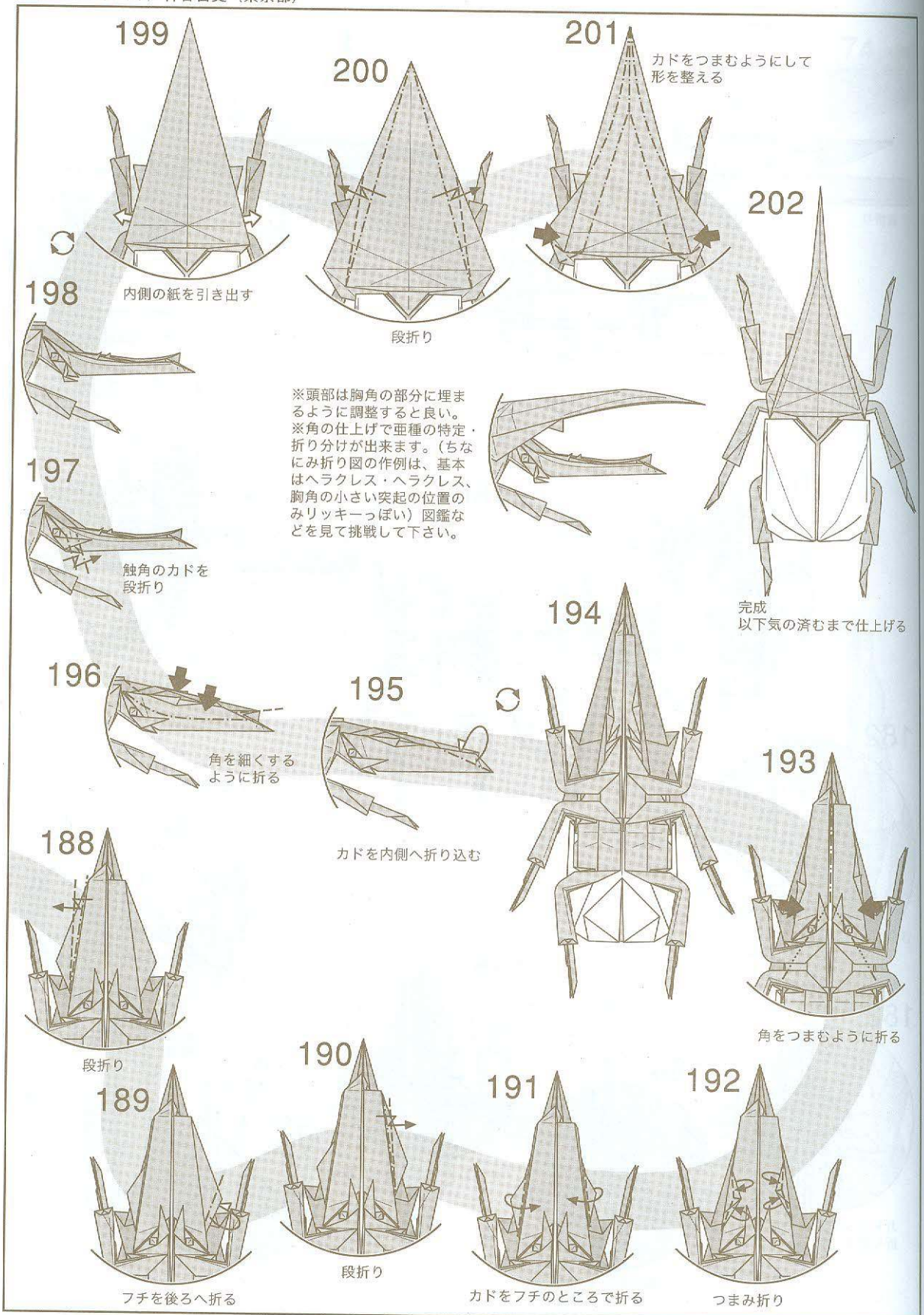



143
カドを下へ折る
ろへ折る
131
カドを折り筋に合わせて
折り筋をつける
り筋に
折る
130
戻す
29
ドを上へ折る


144
フチを中心に
合わせて折る
145
カドのところで
折り筋をつける
146
フチを斜めに折る
147
折り筋をつける
（ぐらい）
148
内側の１枚を
段折りするようにして
折り畳む
149
後ろのカドを起こして
立体的にする
150
反対側から見た図
151
段折りで
立体的にする
152
カドを内側へ折り込む
153
154
フチを内側へ折りながら
脚のカドを後ろへ折る
155
前脚と頭部のカドを倒す
156
胸角のカドを
倒すように折る
157
158
カドを下へ折る

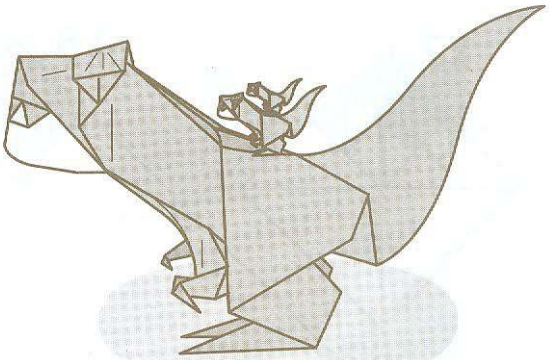

169
158-168
反対側も 158-168 と
同様に折る
170
171
中割り折り
172
中割り折り
173
中割り折り
174
168
カドをつまむように折る
167
閉じる
166
内側のカドを引き出す
165
上の 2 枚を広げる
164
フチを隙間へ折り込む
160
カドを上へ折る
159
つまみ折り
161
つまみ折り
162
後ろの 1 枚を出す
163
出した部分のフチを
かぶせるように後ろへ折る

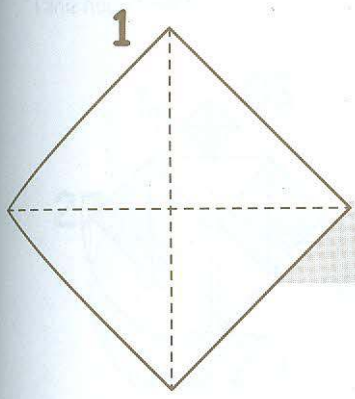

175
段折り
176
引き寄せるように折る
177
脚をつまむように折って
形を整える
178
179
171-178
171-178
171-178
171-178
171-178
残りも脚も 171-178 と
同様に折る
180
181
カドを斜めに折る
182
斜めに段折り
183
カドをフチに合わせて
折り筋をつける
184
内側を広げて
つぶすように折る
185
中割り折りするように折る
186
つまみ折り
187
181-186
反対側も 181-186 と
同様に折る


199
内側の紙を引き出す
200
段折り
201
カドをつまむようにして
形を整える
202
完成
以下気の済むまで仕上げる
198
197
触角のカドを
段折り
※頭部は胸角の部分に埋まるように調整すると良い。
※角の仕上げで亜種の特定・折り分けが出来ます。（ちなにみ折り図の作例は、基本はヘラクレス・ヘラクレス、胸角の小さい突起の位置のみリッキーっぽい）図鑑などを見て挑戦して下さい。
194
196
角を細くする
ように折る
195
カドを内側へ折り込む
193
角をつまむように折る
188
段折り
190
段折り
189
フチを後ろへ折る
191
カドをフチのところで折る
192
つまみ折り

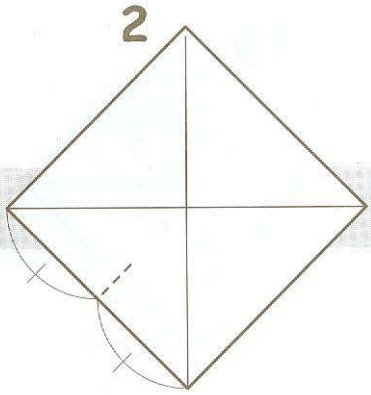
ティラノサウルス
Tyrannosaurus

岩佐悠平　Yuhei Iwasa　Nov.23,2011

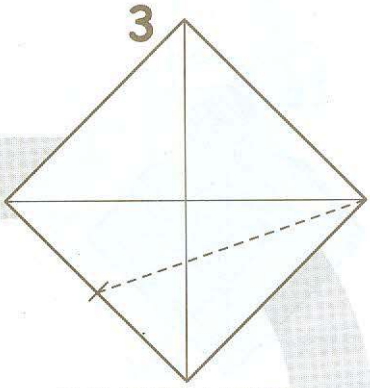




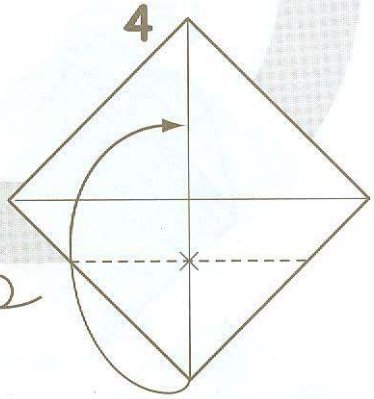
1 対角線に折り筋をつける



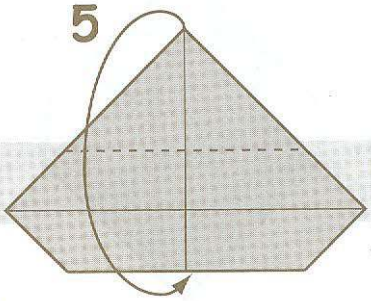
2 カドを合わせて折り筋をつける



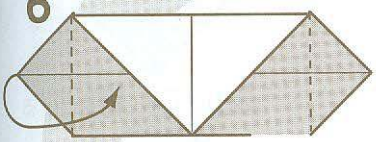
3 つけた折り筋とカドを結び、対角線上に印をつける



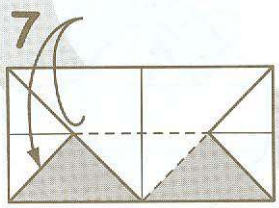
4 カドを上に折り、裏返す



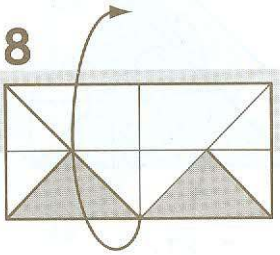
5 カドをフチに合わせて折る



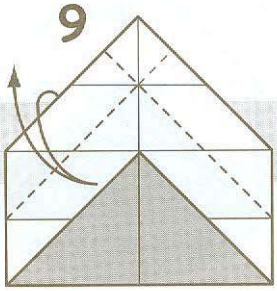
6 カドをフチに合わせて折る



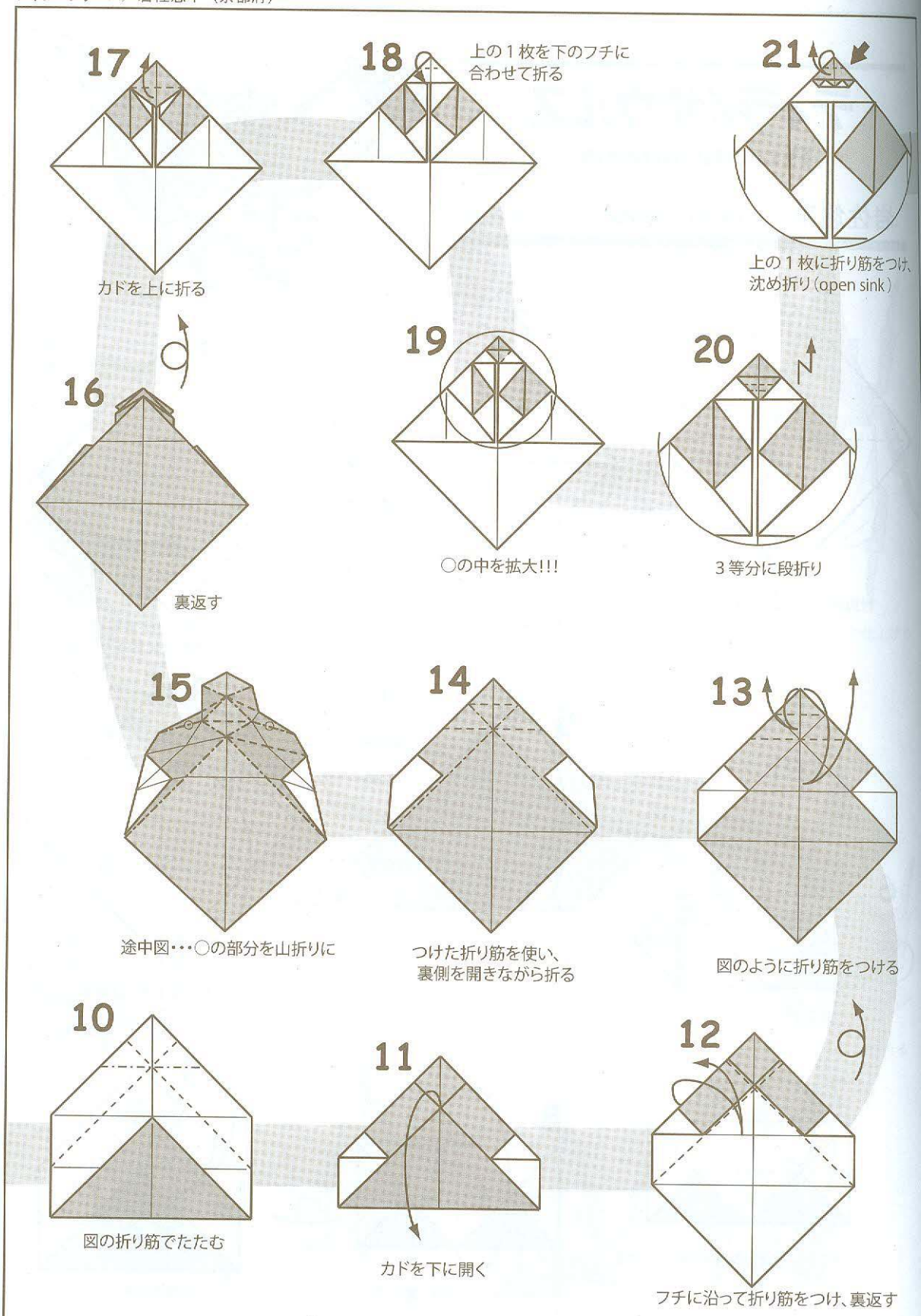
7 カドをフチに合わせて折り筋をつける

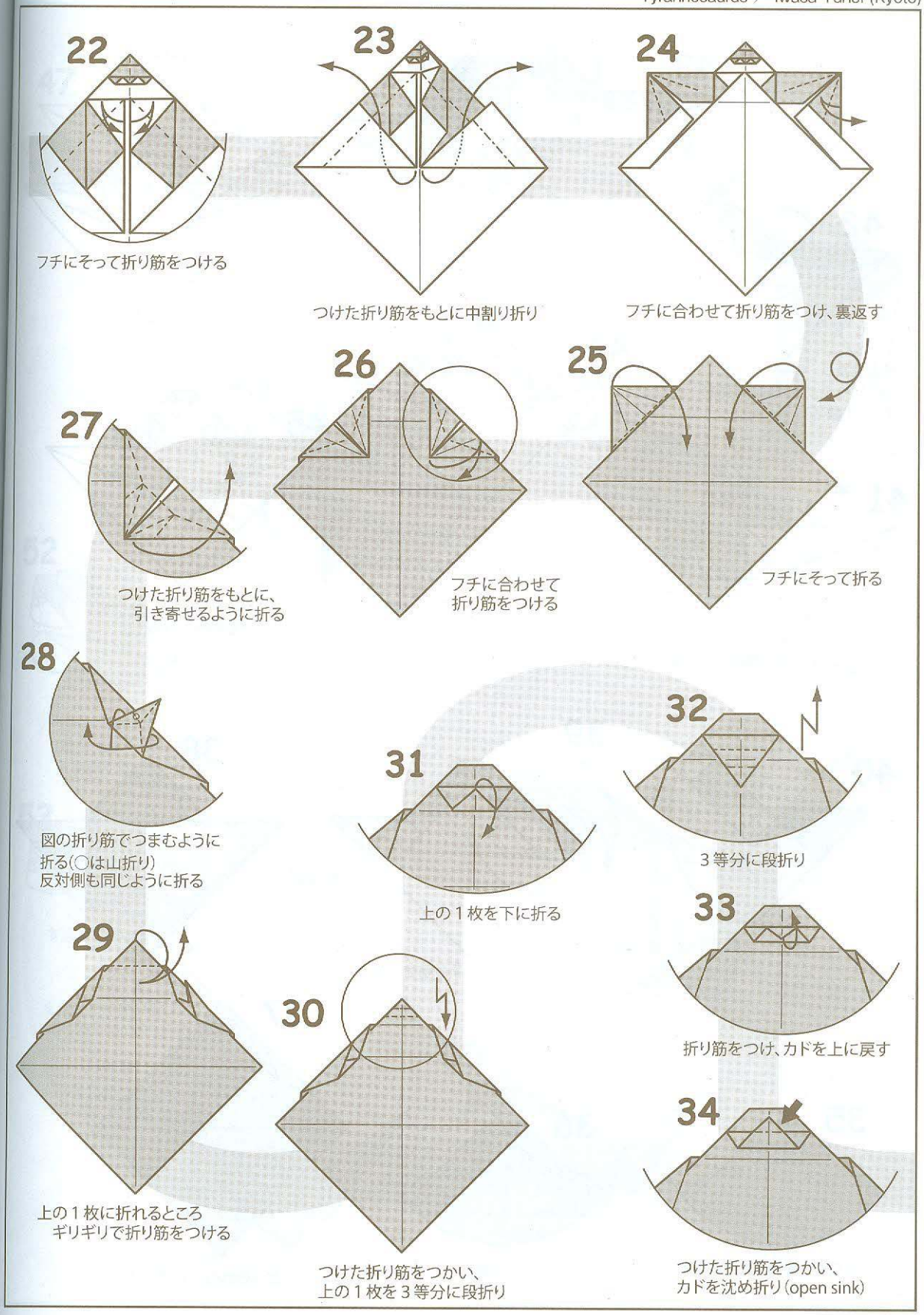


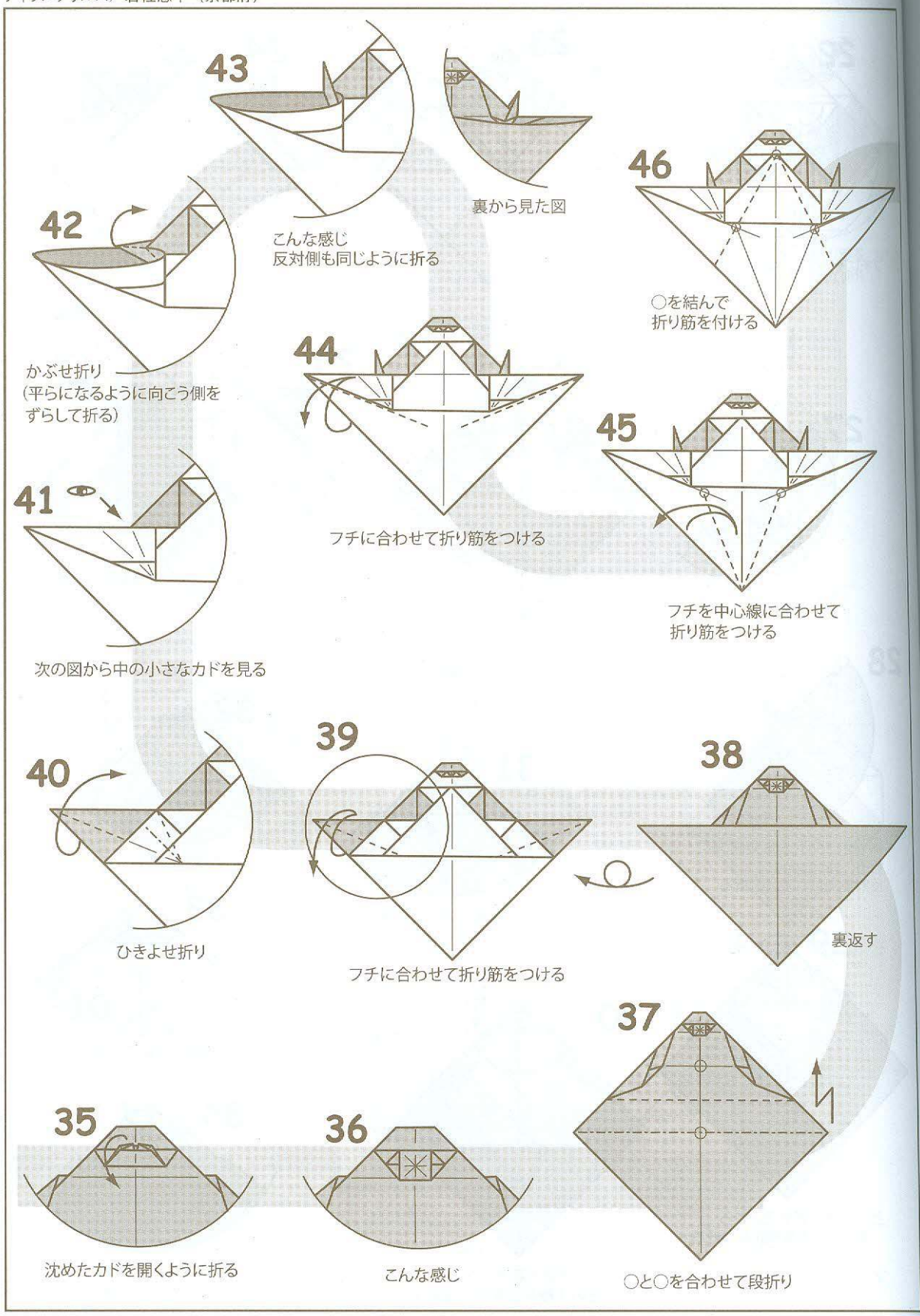
8 カドを上に開き、裏返す

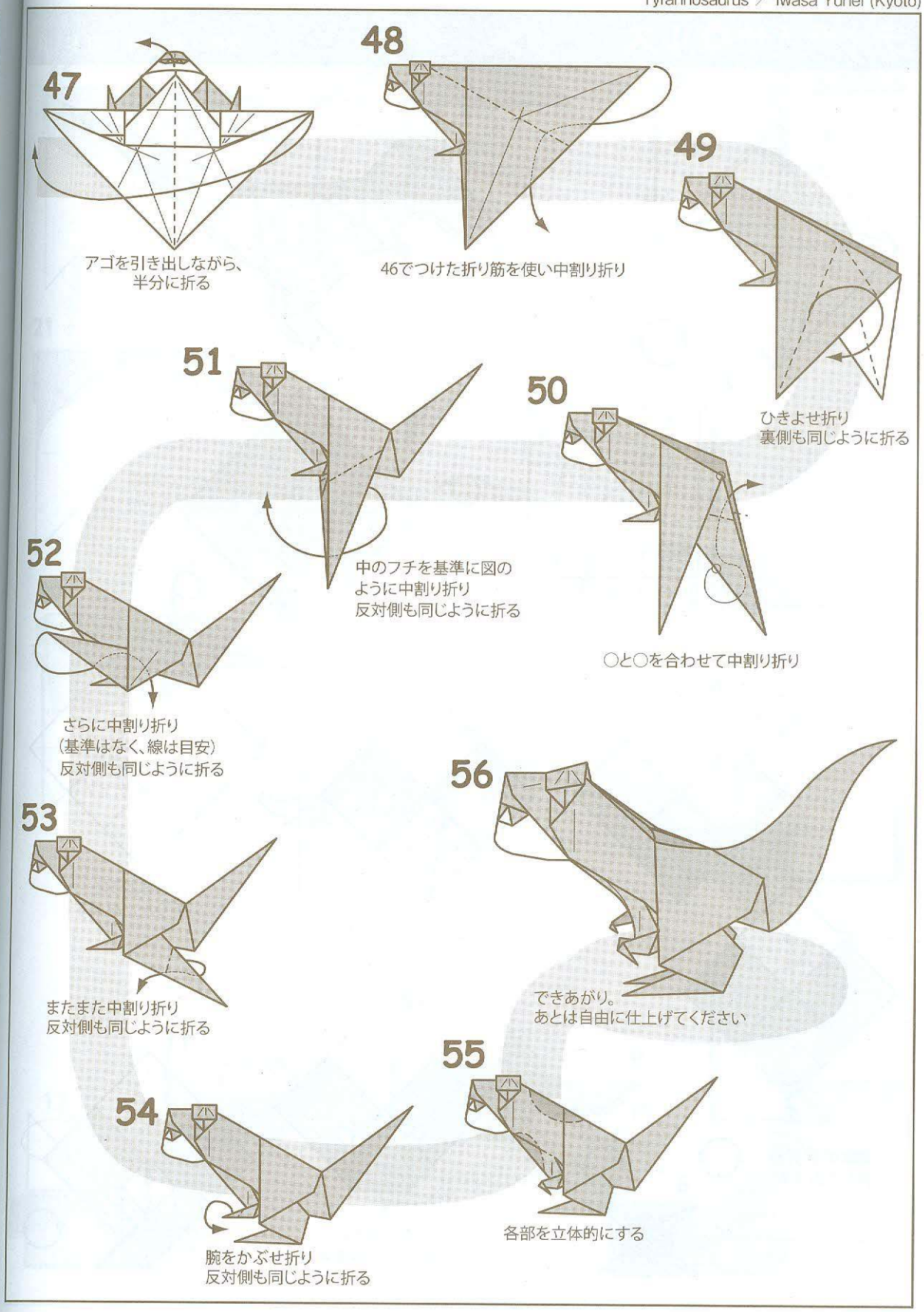


9 フチに合わせて折り筋をつける


17
カドを上に折る
18
上の１枚を下のフチに
合わせて折る
21
上の１枚に折り筋をつけ、
沈め折り（open sink）
16
裏返す
19
○の中を拡大!!!
20
３等分に段折り
15
途中図・・・○の部分を山折りに
14
つけた折り筋を使い、
裏側を開きながら折る
13
図のように折り筋をつける
10
図の折り筋でたたむ
11
カドを下に開く
12
フチに沿って折り筋をつけ、裏返す

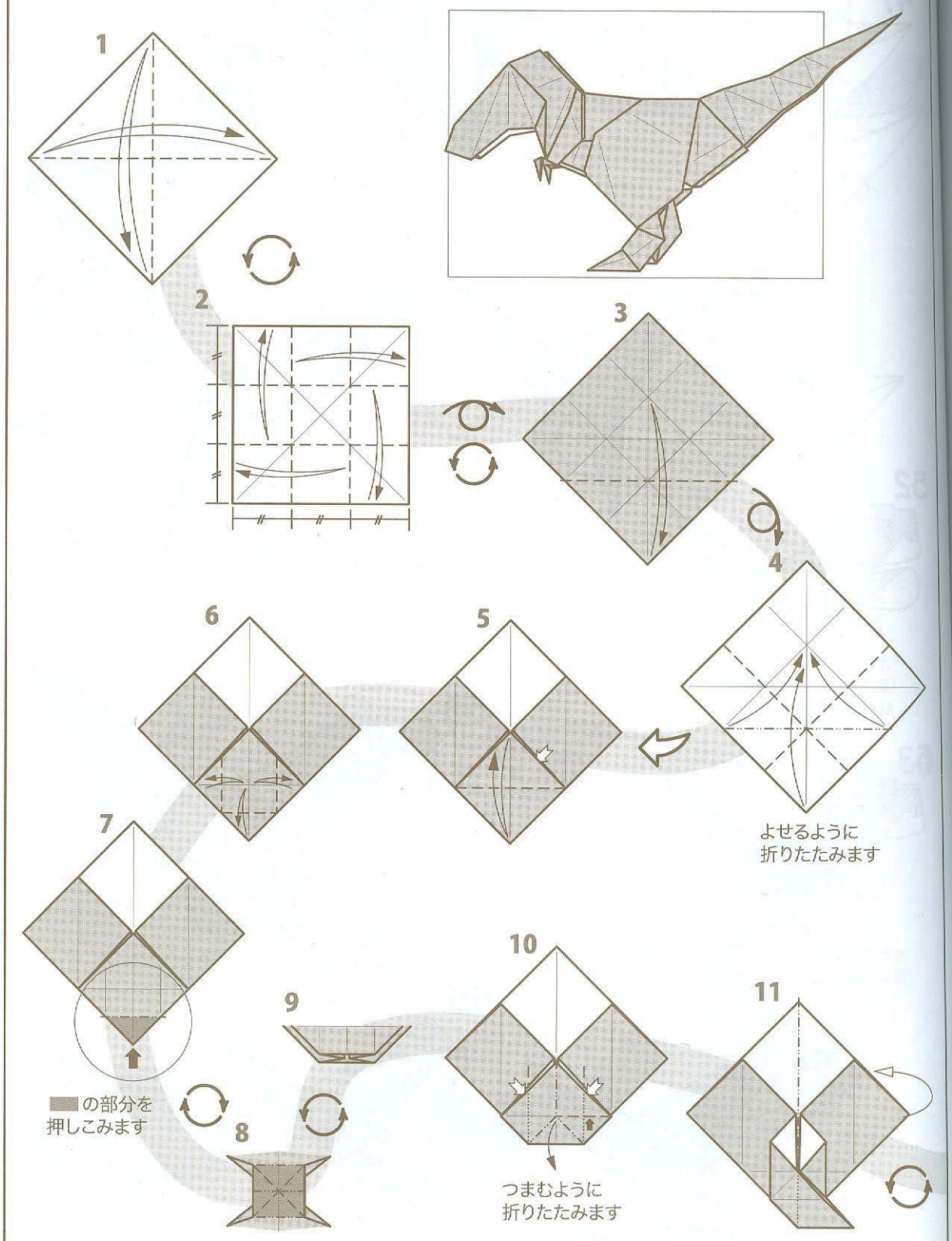

22
フチにそって折り筋をつける
23
つけた折り筋をもとに中割り折り
24
フチに合わせて折り筋をつけ、裏返す
25
フチにそって折る
26
フチに合わせて
折り筋をつける
27
つけた折り筋をもとに、
引き寄せるように折る
28
図の折り筋でつまむように
折る(○は山折り)
反対側も同じように折る
29
上の１枚に折れるところ
ギリギリで折り筋をつける
30
つけた折り筋をつかい、
上の１枚を３等分に段折り
31
上の１枚を下に折る
32
３等分に段折り
33
折り筋をつけ、カドを上に戻す
34
つけた折り筋をつかい、
カドを沈め折り(open sink)

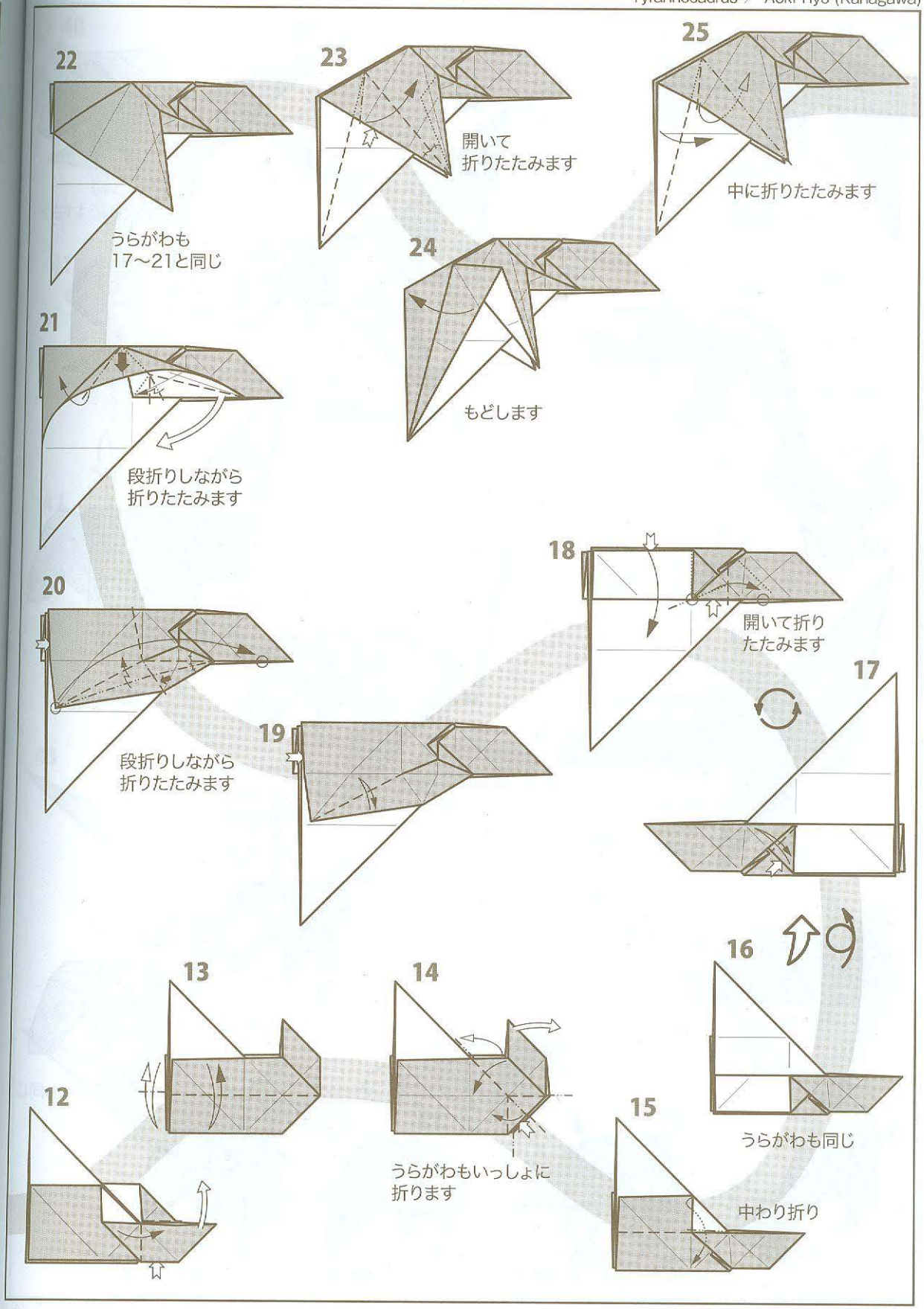

43
こんな感じ
反対側も同じように折る
裏から見た図
46
○を結んで
折り筋を付ける
42
かぶせ折り
(平らになるように向こう側を
ずらして折る)
44
フチに合わせて折り筋をつける
45
フチを中心線に合わせて
折り筋をつける
41
次の図から中の小さなカドを見る
40
ひきよせ折り
39
フチに合わせて折り筋をつける
38
裏返す
37
○と○を合わせて段折り
35
沈めたカドを開くように折る
36
こんな感じ

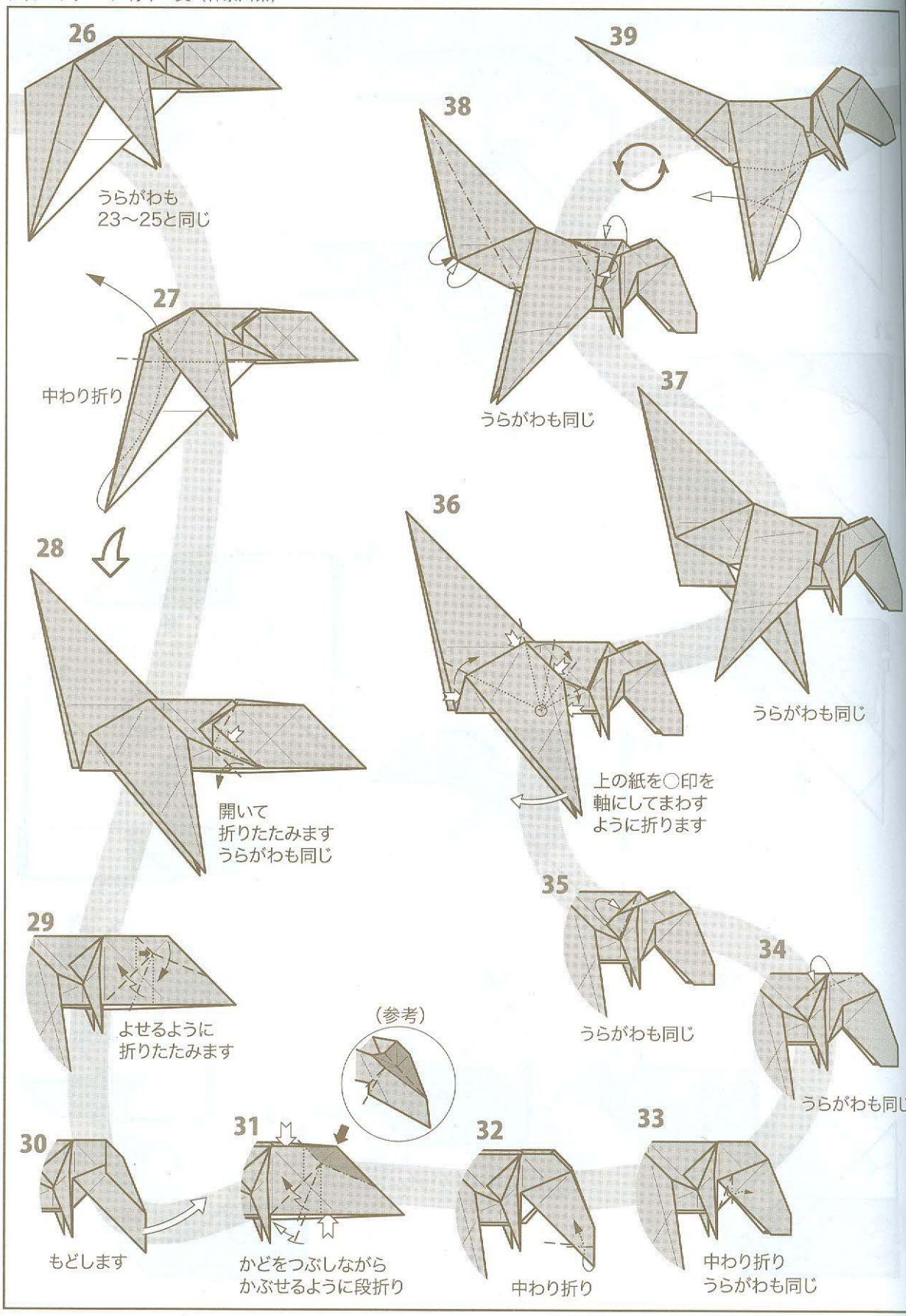

47
アゴを引き出しながら、
半分に折る
48
46でつけた折り筋を使い中割り折り
49
ひきよせ折り
裏側も同じように折る
50
○と○を合わせて中割り折り
51
中のフチを基準に図の
ように中割り折り
反対側も同じように折る
52
さらに中割り折り
(基準はなく、線は目安)
反対側も同じように折る
53
またまた中割り折り
反対側も同じように折る
54
腕をかぶせ折り
反対側も同じように折る
55
各部を立体的にする
56
できあがり。
あとは自由に仕上げてください

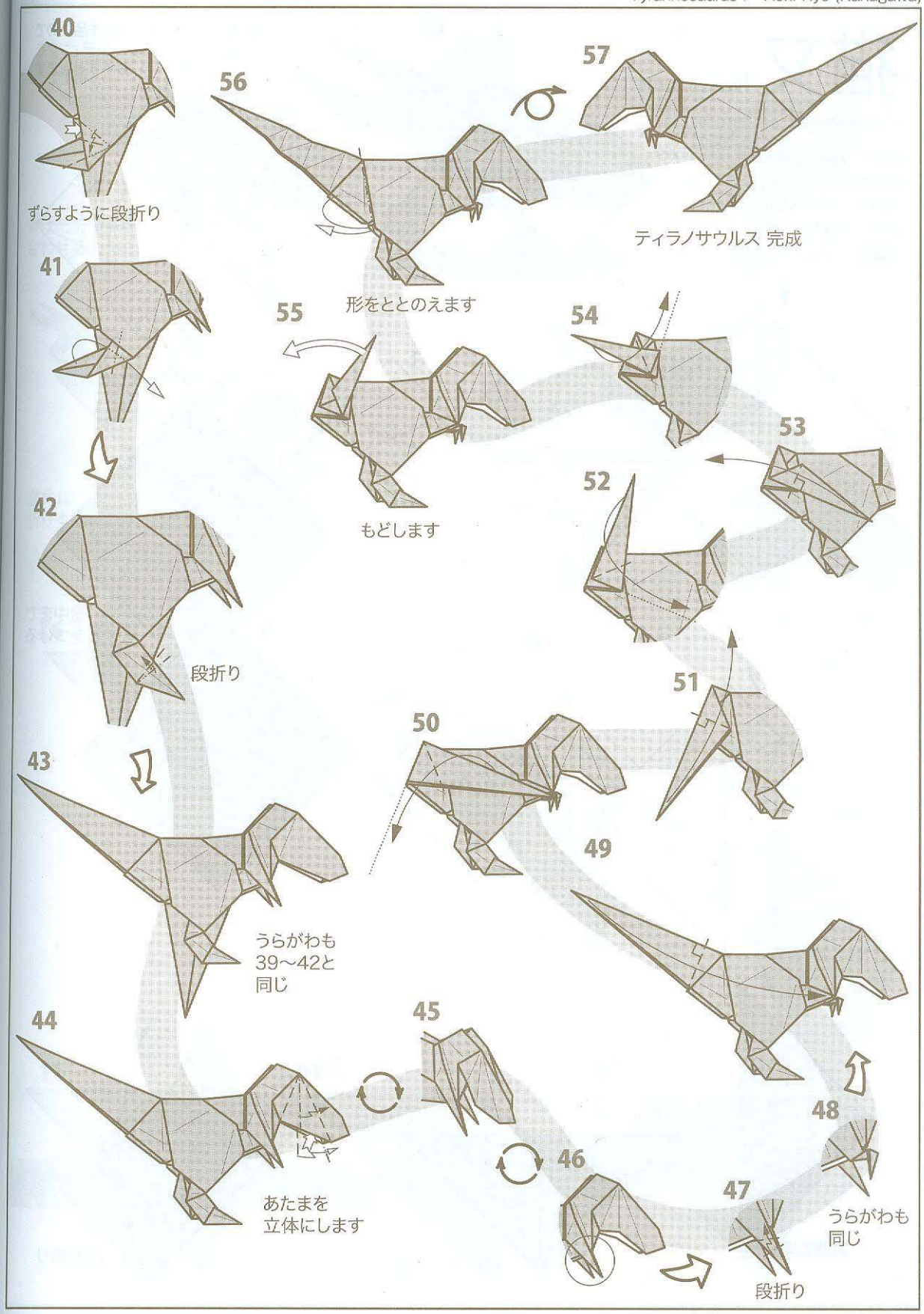
ティラノサウルス

創作・折り図：青木　良




22
うらがわも
17〜21と同じ
23
開いて
折りたたみます
25
中に折りたたみます
24
もどします
21
段折りしながら
折りたたみます
18
開いて折り
たたみます
20
段折りしながら
折りたたみます
19
17
16
うらがわも同じ
13
14
うらがわもいっしょに
折ります
12
15
中わり折り

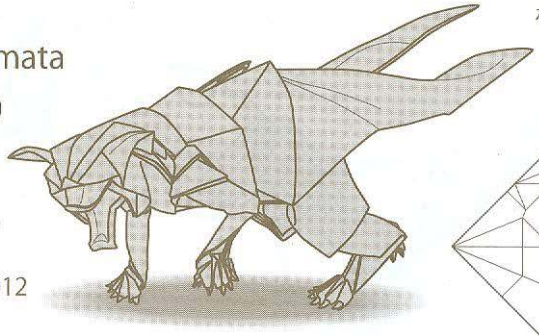

26
うらがわも
23〜25と同じ
27
中わり折り
28
開いて
折りたたみます
うらがわも同じ
29
よせるように
折りたたみます
30
もどします
31
かどをつぶしながら
かぶせるように段折り
（参考）
32
中わり折り
33
中わり折り
うらがわも同じ
34
うらがわも同じ
35
うらがわも同じ
36
上の紙を○印を
軸にしてまわす
ように折ります
37
うらがわも同じ
38
うらがわも同じ
39


40
ずらすように段折り
41
42
段折り
43
うらがわも
39〜42と
同じ
44
あたまを
立体にします
45
46
47
段折り
48
うらがわも
同じ
49
50
51
52
53
54
55
もどします
56
形をととのえます
57
ティラノサウルス 完成

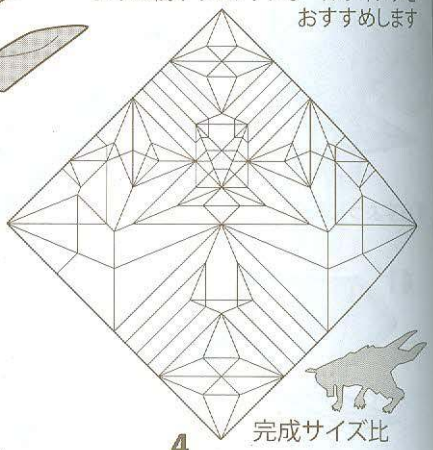
猫又 Nekomata

(Two-tailed Cat Demon)

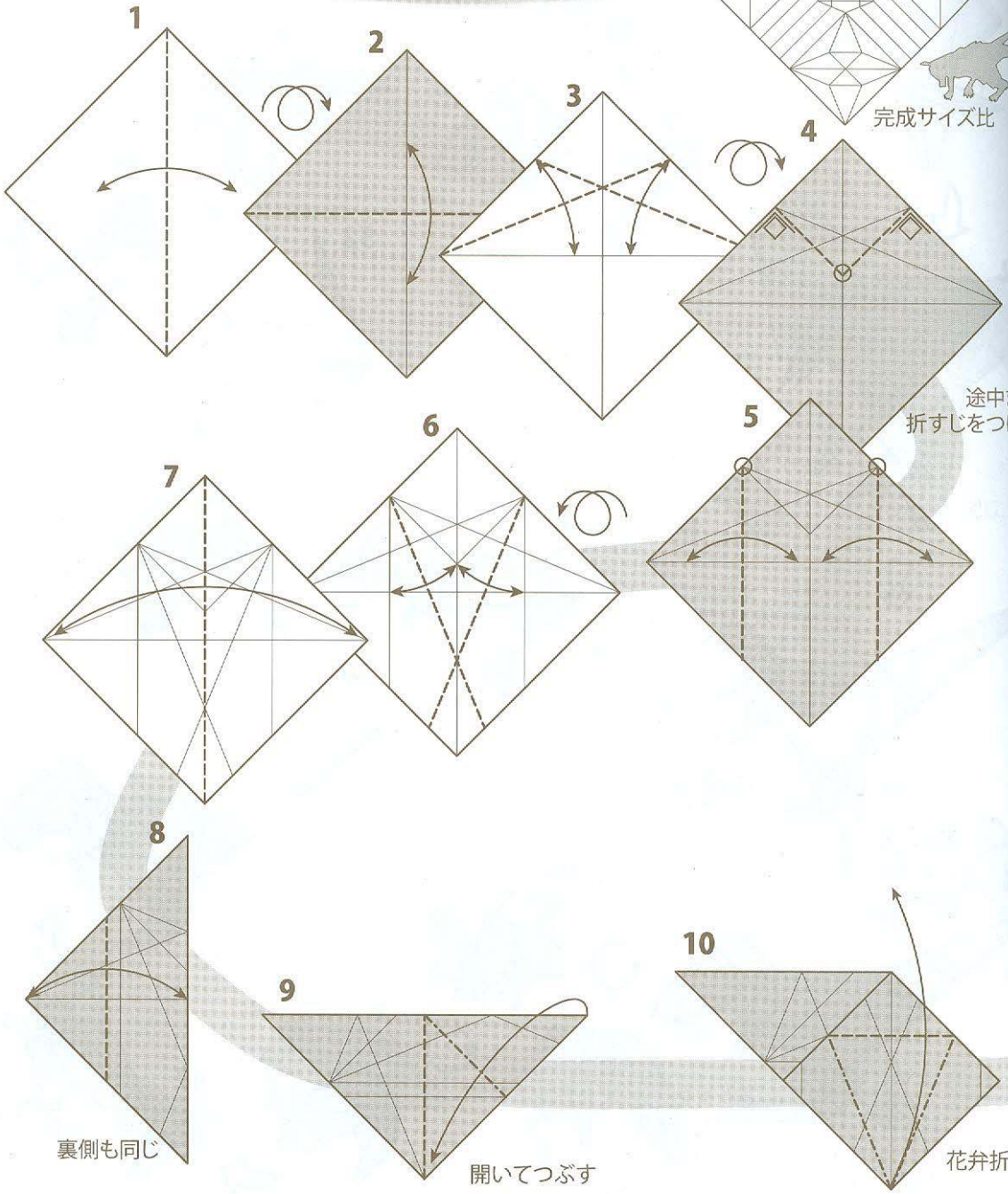
創作・作図：柏村卓朗
Model and Diagrams
by KASHIWAMURA Takuro
Designed:May 2012
Diagrammed:May/June 2012

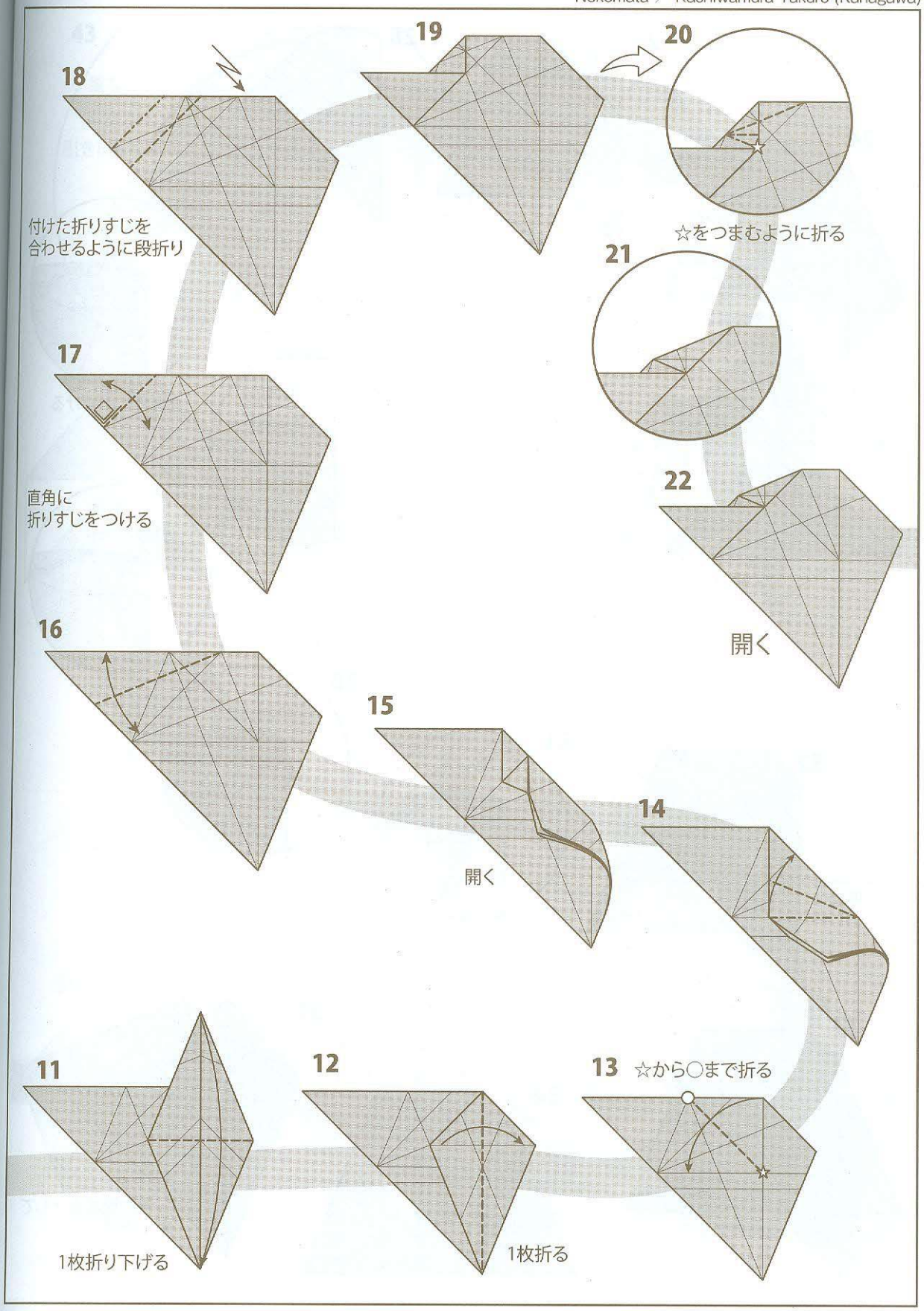


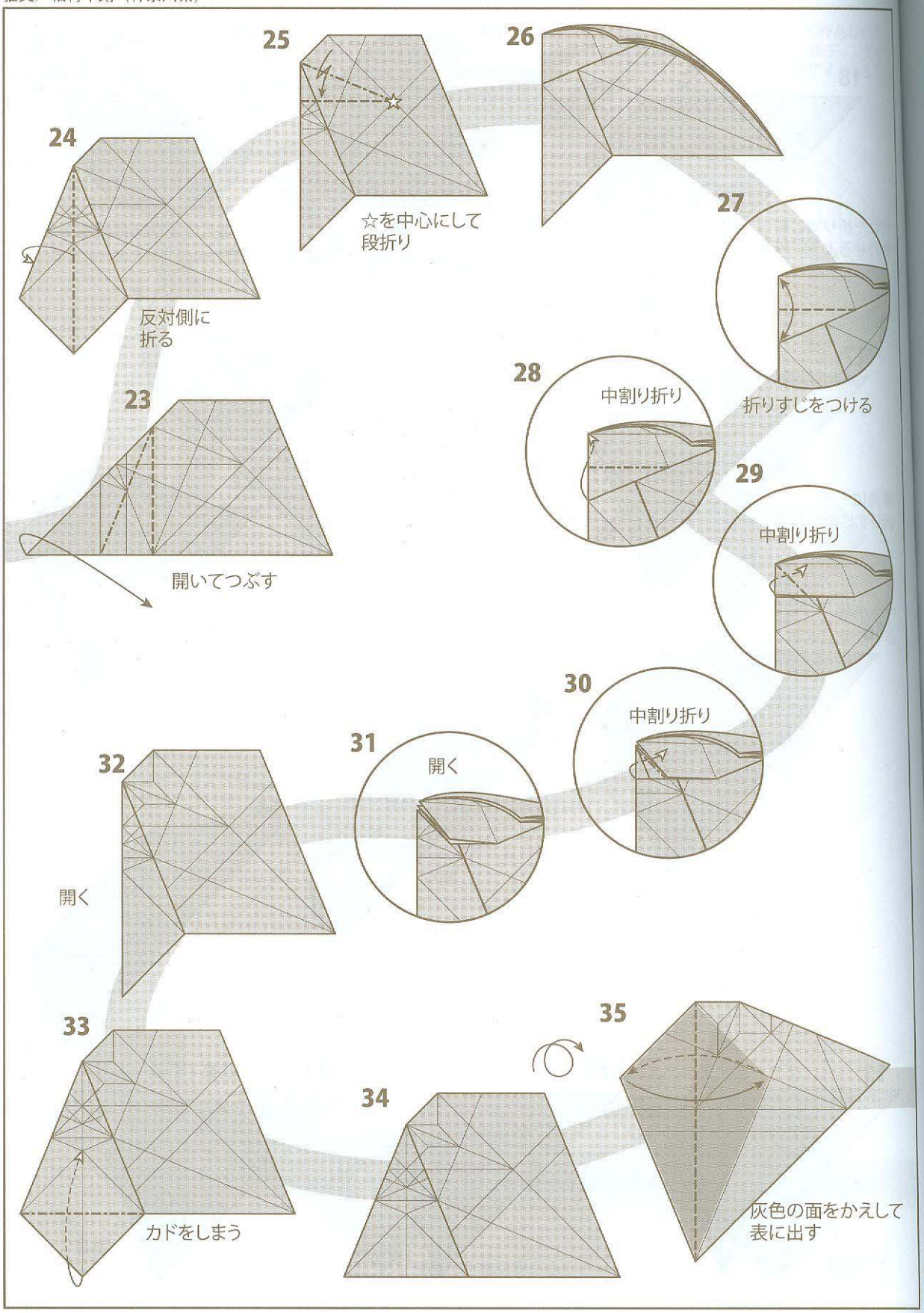
基本形を仕上げていく作品なので
ホイル紙やウェットフォールディングを
おすすめします

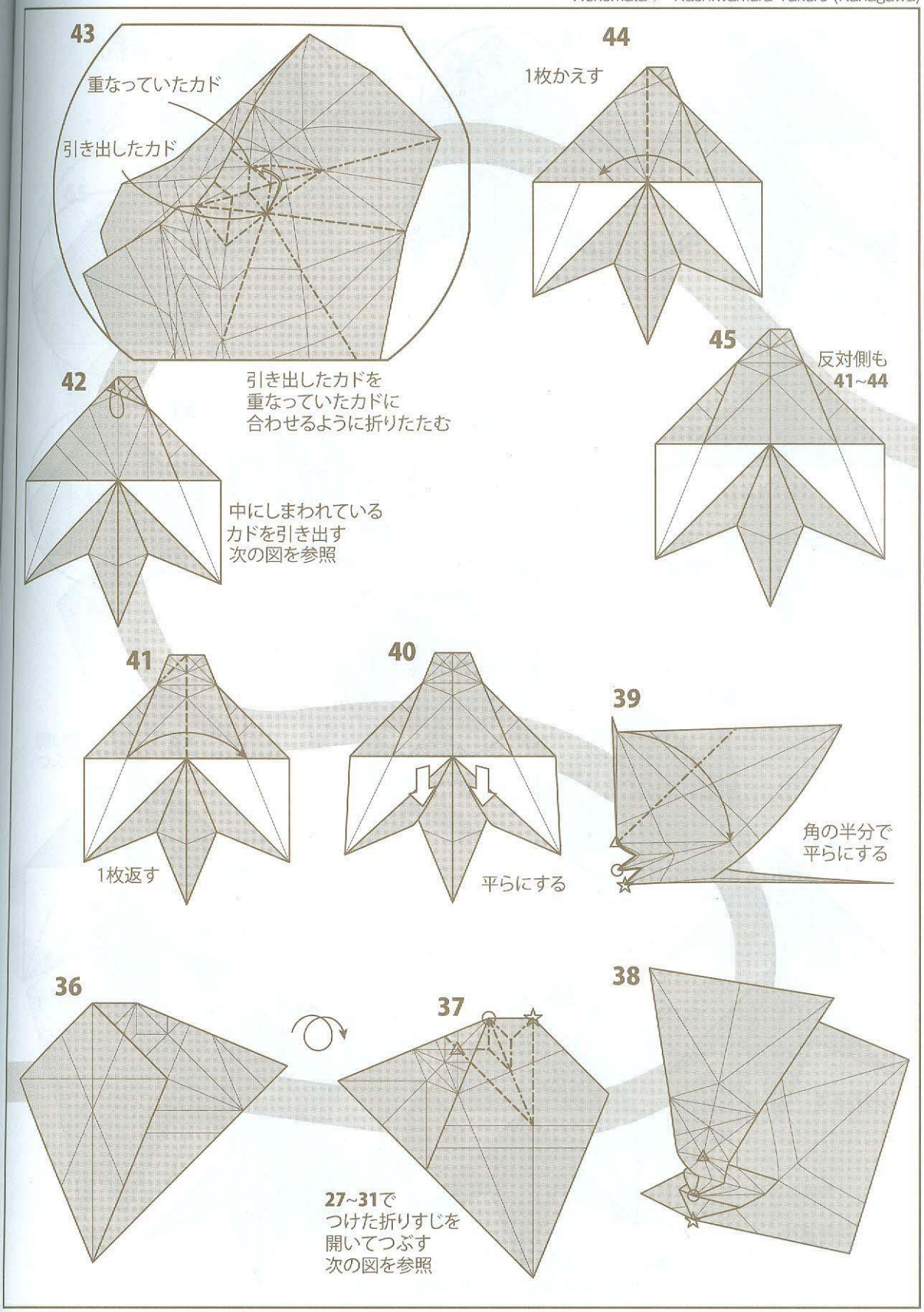


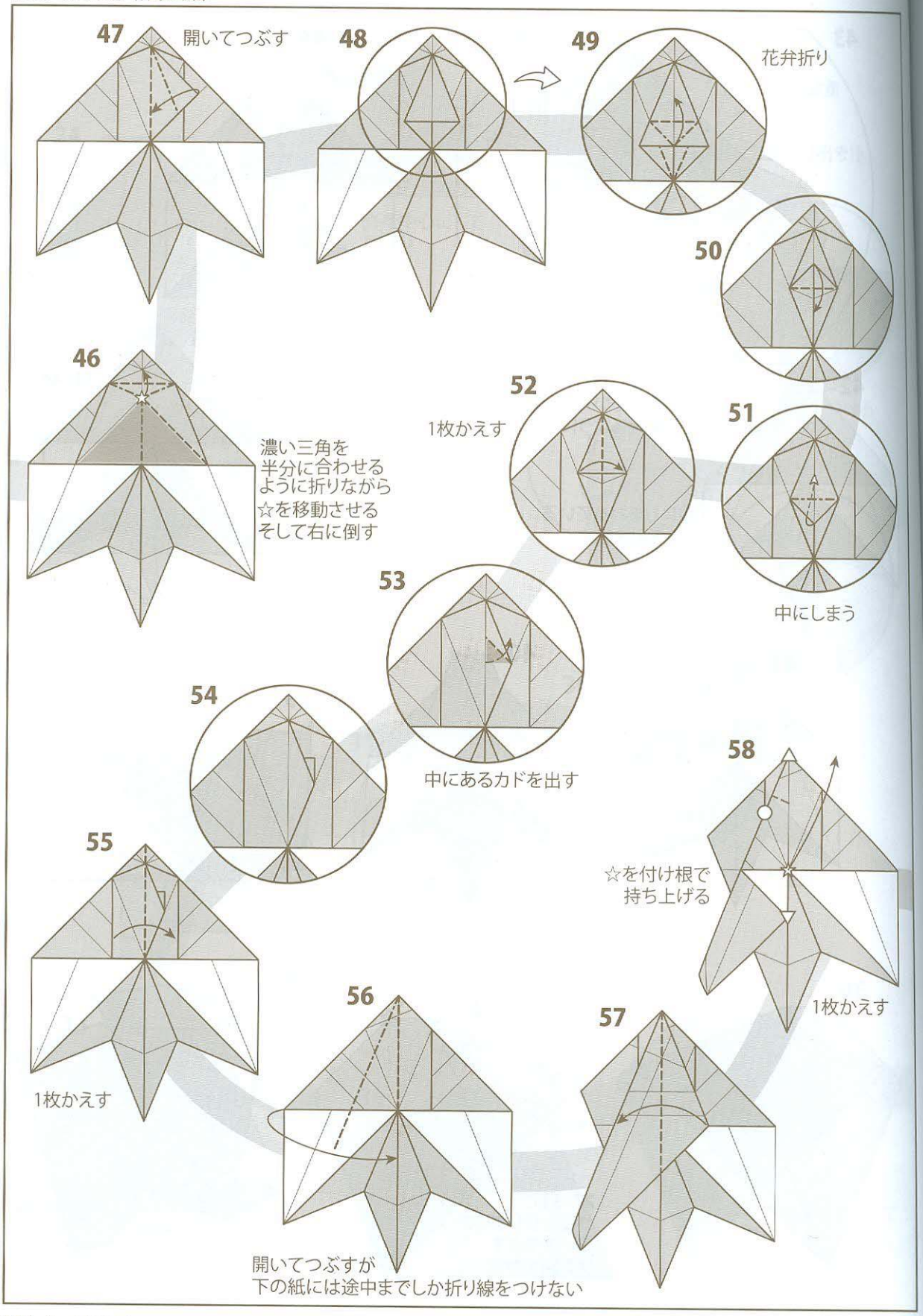
完成サイズ比

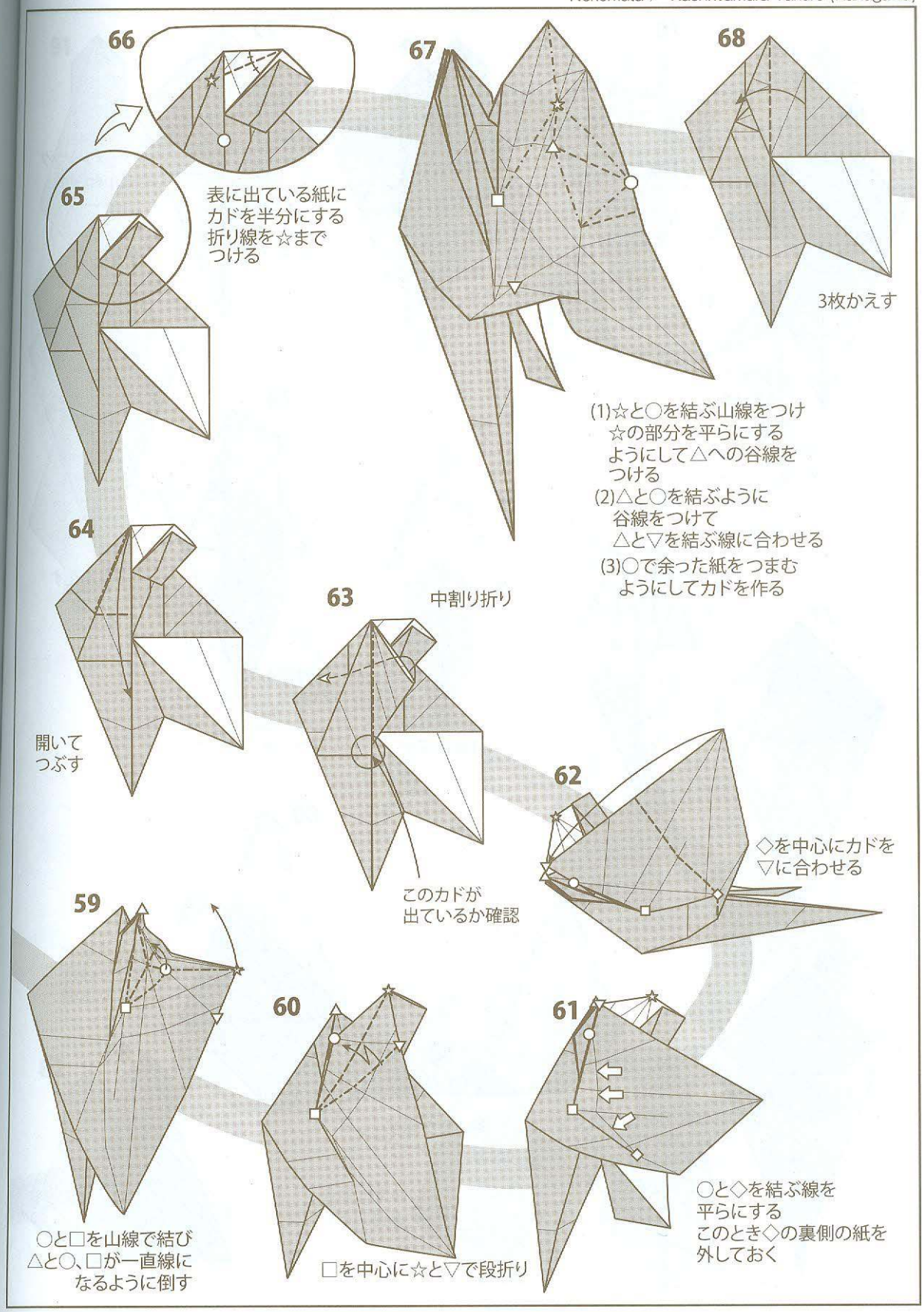



18
付けた折りすじを
合わせるように段折り
19
20
☆をつまむように折る
21
17
直角に
折りすじをつける
22
開く
16
15
開く
14
11
1枚折り下げる
12
1枚折る
13 ☆から○まで折る

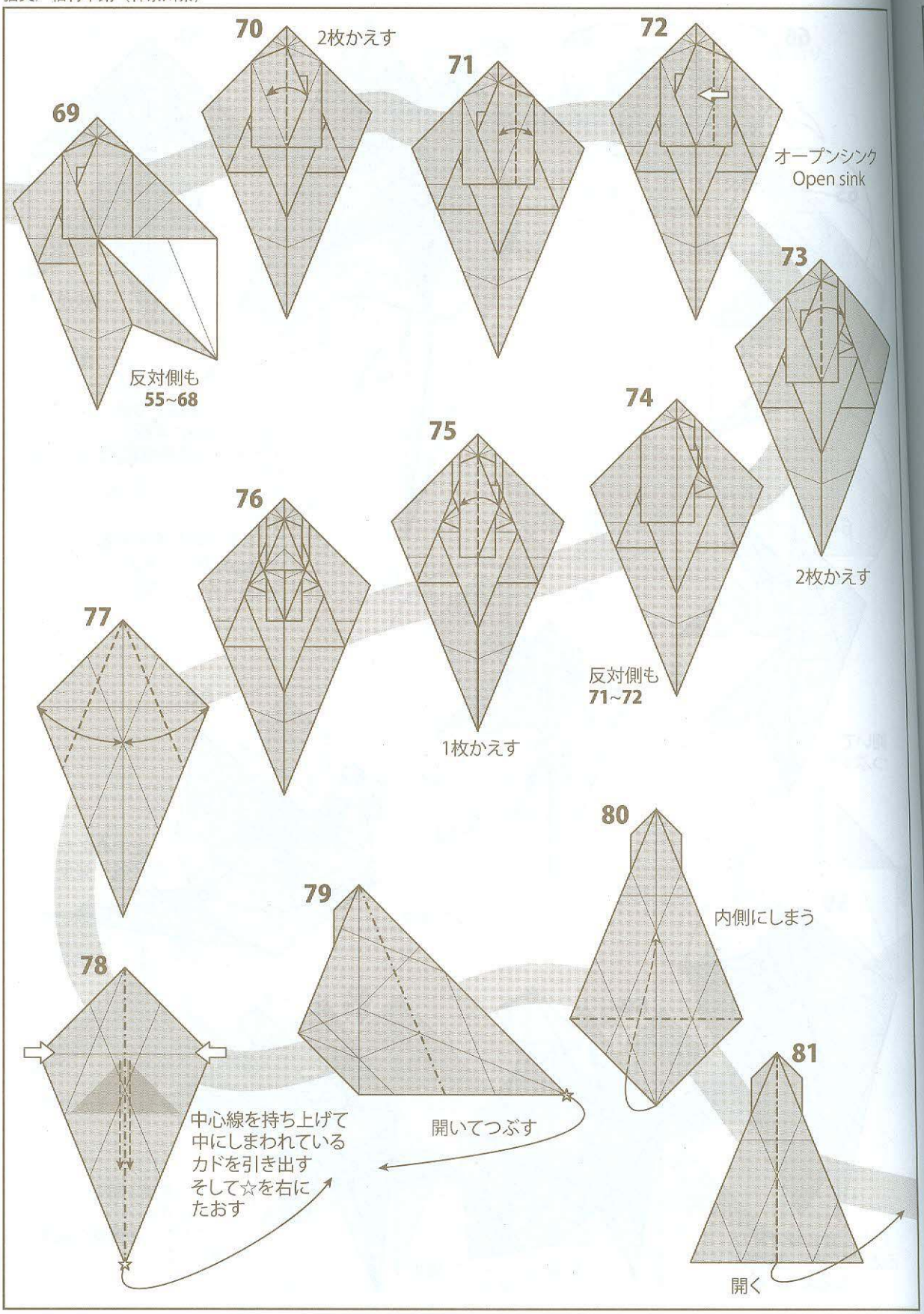

25
☆を中心にして
段折り
26
24
反対側に
折る
27
折りすじをつける
28
中割り折り
23
開いてつぶす
29
中割り折り
30
中割り折り
31
開く
32
開く
33
カドをしまう
34
35
灰色の面をかえして
表に出す

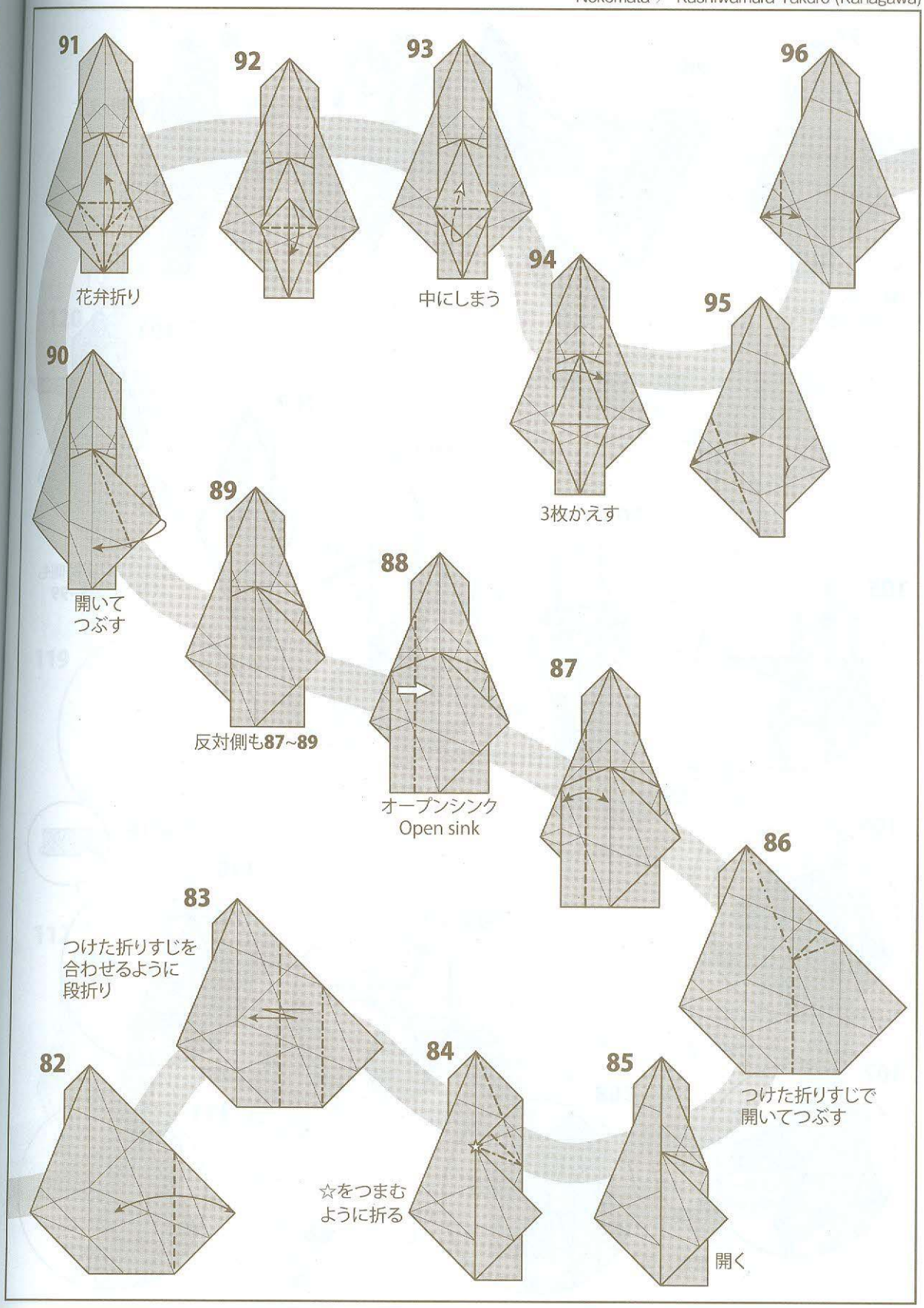

43
重なっていたカド
引き出したカド
44
1枚かえす
45
反対側も
41~44
42
引き出したカドを
重なっていたカドに
合わせるように折りたたむ
中にしまわれている
カドを引き出す
次の図を参照
41
1枚返す
40
平らにする
39
角の半分で
平らにする
36
37
38
27~31で
つけた折りすじを
開いてつぶす
次の図を参照

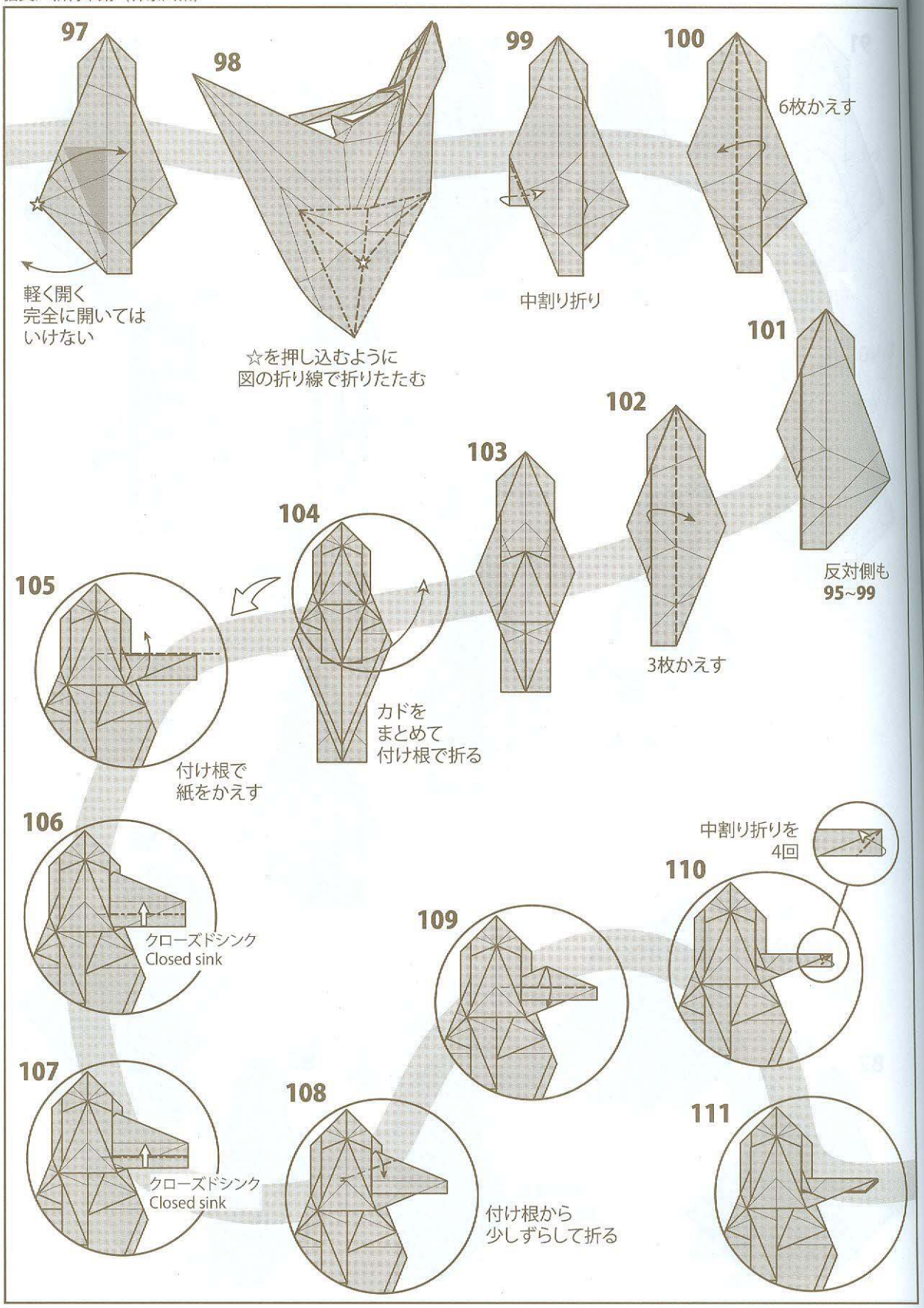

47
開いてつぶす
48
49
花弁折り
50
46
濃い三角を
半分に合わせる
ように折りながら
☆を移動させる
そして右に倒す
52
1枚かえす
51
中にしまう
53
中にあるカドを出す
54
58
☆を付け根で
持ち上げる
1枚かえす
55
1枚かえす
56
57
開いてつぶすが
下の紙には途中までしか折り線をつけない

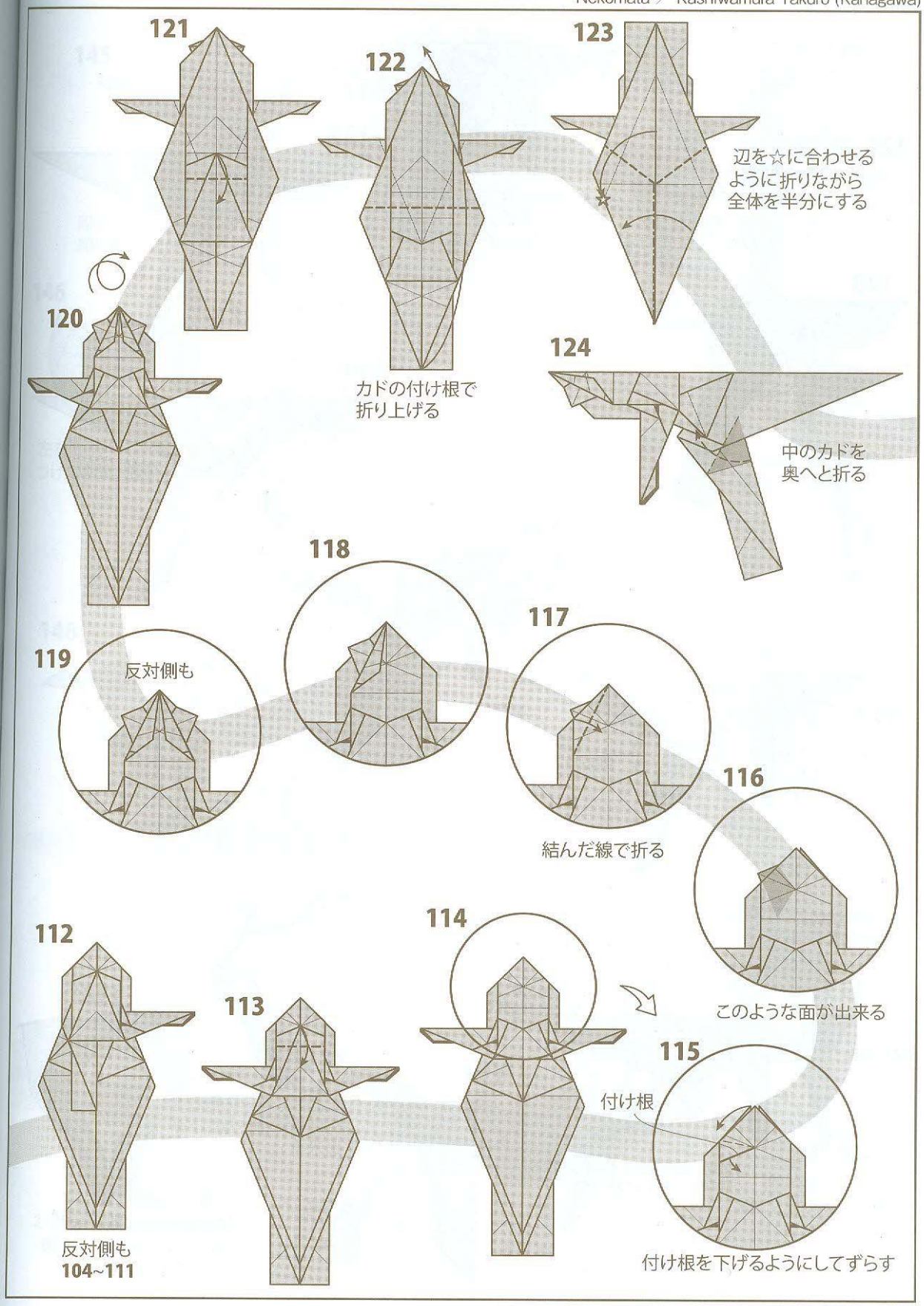

66
67
68
65
表に出ている紙に
カドを半分にする
折り線を☆まで
つける
3枚かえす
(1)☆と○を結ぶ山線をつけ
☆の部分を平らにする
ようにして△への谷線を
つける
(2)△と○を結ぶように
谷線をつけて
△と▽を結ぶ線に合わせる
(3)○で余った紙をつまむ
ようにしてカドを作る
64
63
中割り折り
開いて
つぶす
62
◇を中心にカドを
▽に合わせる
このカドが
出ているか確認
59
60
61
○と□を山線で結び
△と○、□が一直線に
なるように倒す
□を中心に☆と▽で段折り
○と◇を結ぶ線を
平らにする
このとき◇の裏側の紙を
外しておく

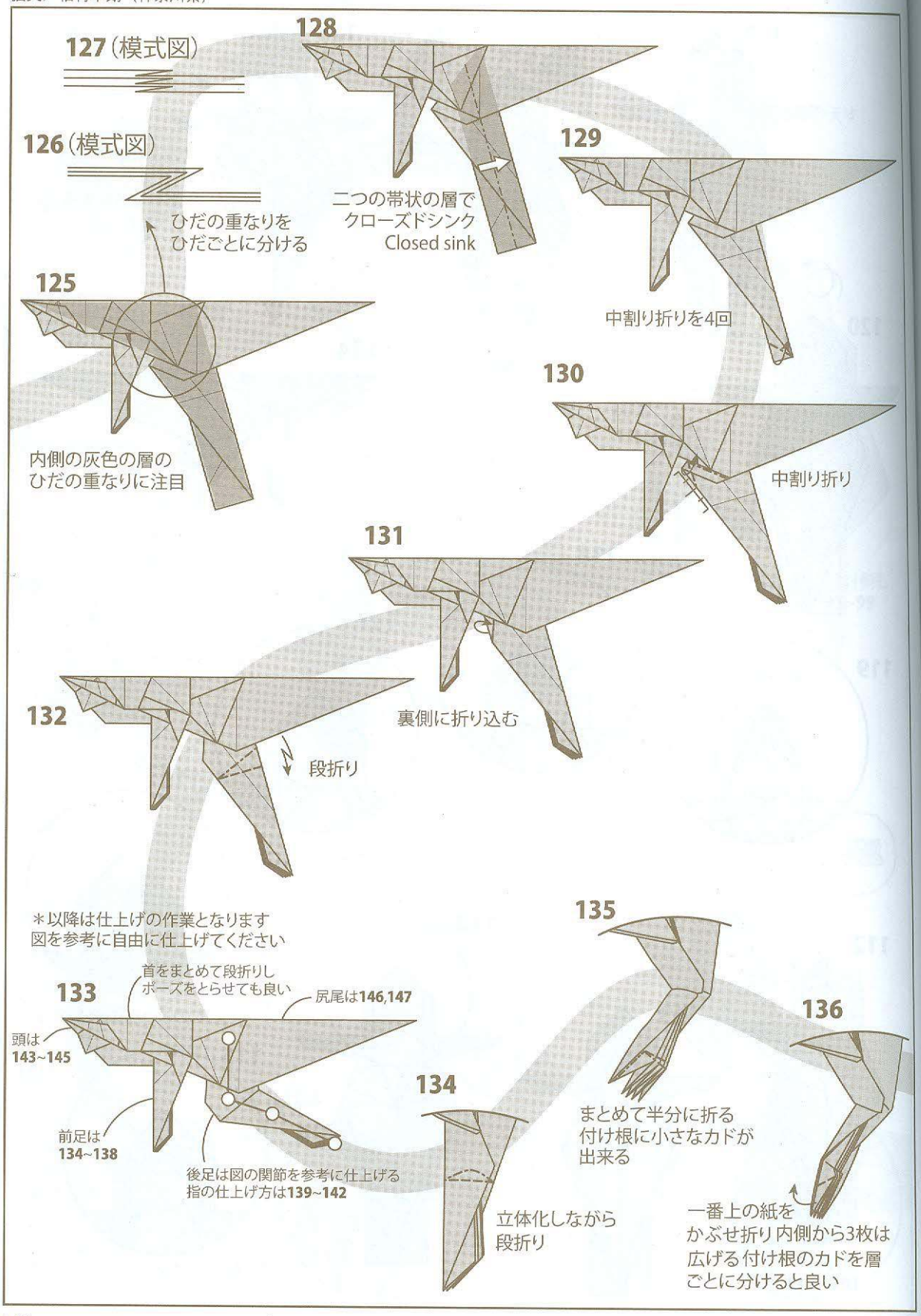
猫又／柏村卓朗（神奈川県）

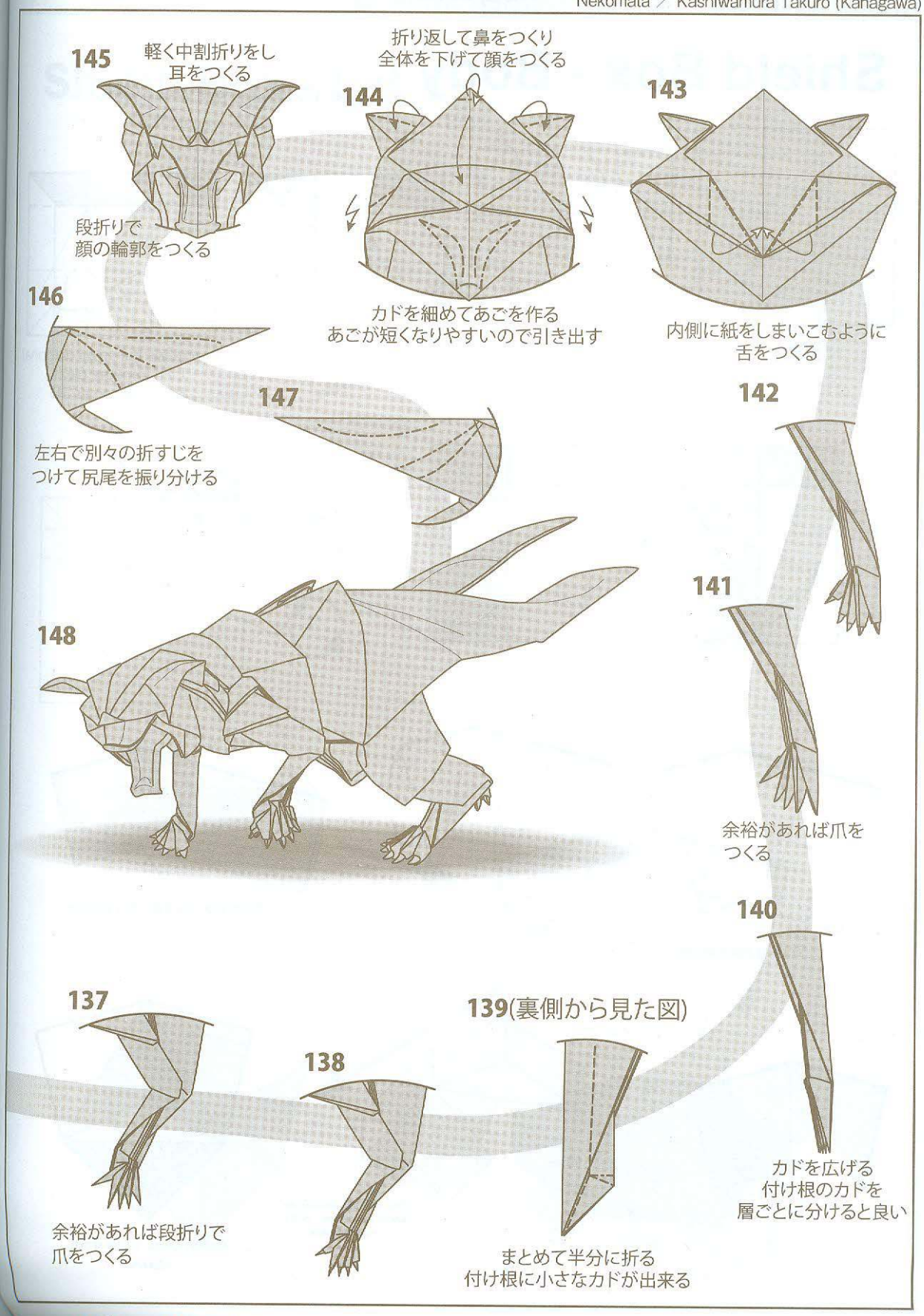

69
反対側も
55~68
70
2枚かえす
71
72
オープンシンク
Open sink
73
2枚かえす
74
反対側も
71~72
75
1枚かえす
76
77
78
中心線を持ち上げて
中にしまわれている
カドを引き出す
そして☆を右に
たおす
79
開いてつぶす
80
内側にしまう
81
開く


91
花弁折り
92
93
中にしまう
96
94
3枚かえす
95
90
開いて
つぶす
89
反対側も87~89
88
オープンシンク
Open sink
87
86
つけた折りすじで
開いてつぶす
83
つけた折りすじを
合わせるように
段折り
82
84
☆をつまむ
ように折る
85
開く


97
軽く開く
完全に開いては
いけない
98
☆を押し込むように
図の折り線で折りたたむ
99
中割り折り
100
6枚かえす
101
反対側も
95~99
102
3枚かえす
103
104
カドを
まとめて
付け根で折る
105
付け根で
紙をかえす
106
クローズドシンク
Closed sink
107
クローズドシンク
Closed sink
108
付け根から
少しずらして折る
109
110
中割り折りを
4回
111

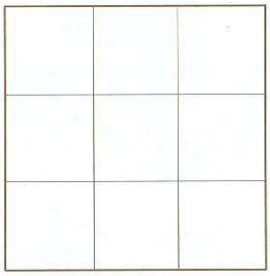

121
122
123
辺を☆に合わせる
ように折りながら
全体を半分にする
120
カドの付け根で
折り上げる
124
中のカドを
奥へと折る
118
117
119
反対側も
結んだ線で折る
116
このような面が出来る
112
114
113
115
付け根
反対側も
104~111
付け根を下げるようにしてずらす


127（模式図）
126（模式図）
128
二つの帯状の層で
クローズドシンク
Closed sink
129
中割り折りを4回
ひだの重なりを
ひだごとに分ける
125
内側の灰色の層の
ひだの重なりに注目
130
中割り折り
131
裏側に折り込む
132
段折り
＊以降は仕上げの作業となります
図を参考に自由に仕上げてください
133
首をまとめて段折りし
ポーズをとらせても良い
尻尾は146,147
頭は
143~145
前足は
134~138
後足は図の関節を参考に仕上げる
指の仕上げ方は139~142
134
立体化しながら
段折り
135
まとめて半分に折る
付け根に小さなカドが
出来る
136
一番上の紙を
かぶせ折り内側から3枚は
広げる付け根のカドを層
ごとに分けると良い

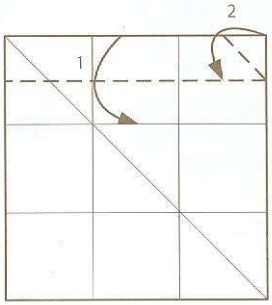

145
軽く中割折りをし
耳をつくる
段折りで
顔の輪郭をつくる
144
折り返して鼻をつくり
全体を下げて顔をつくる
カドを細めてあごを作る
あごが短くなりやすいので引き出す
143
内側に紙をしまいこむように
舌をつくる
146
左右で別々の折すじを
つけて尻尾を振り分ける
147
142
148
141
余裕があれば爪を
つくる
140
カドを広げる
付け根のカドを
層ごとに分けると良い
137
余裕があれば段折りで
爪をつくる
138
139(裏側から見た図)
まとめて半分に折る
付け根に小さなカドが出来る

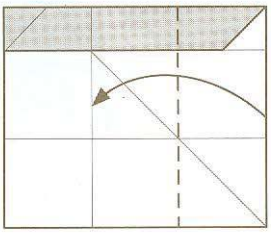
Shield Box - Body

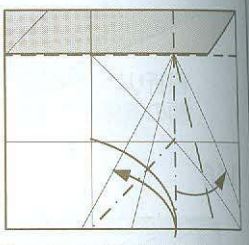
Model and Diagrams by Dennis Walker



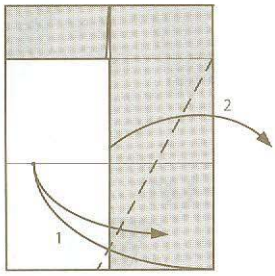
Thirds

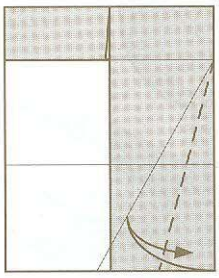


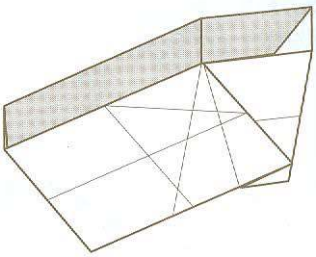


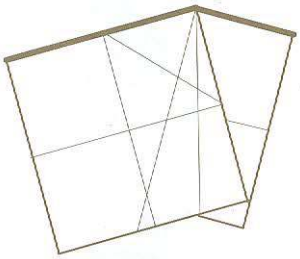


Precrease the small diagonal then form the pleat. Model becomes 3D

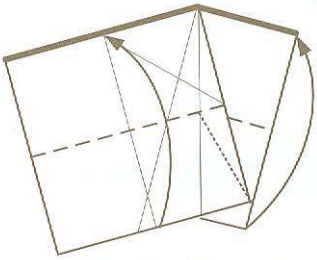




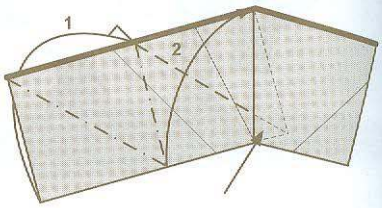




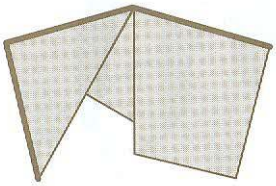
Shown from above



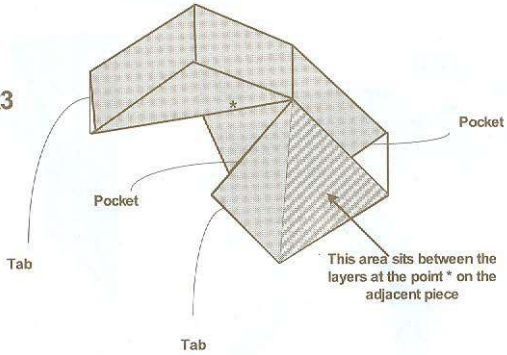
Shield Box - Body: Page 1/2

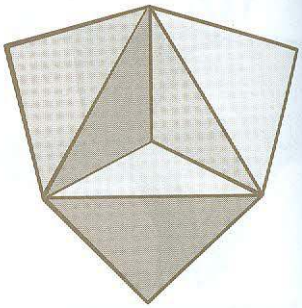


Fold 2 tucks into this pocket.



x3

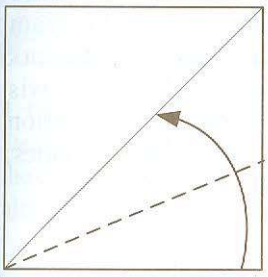


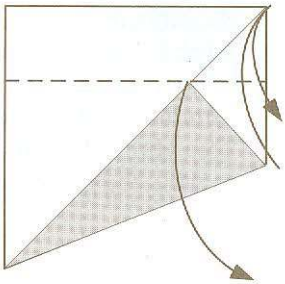


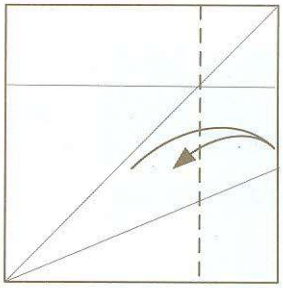
Assembled. View from above

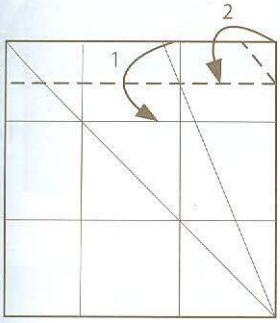
Shield Box - Lid

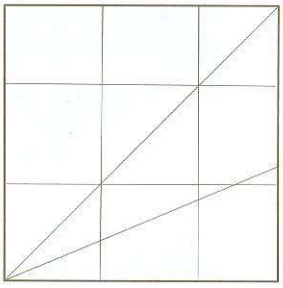
Model and Diagrams by Dennis Walker

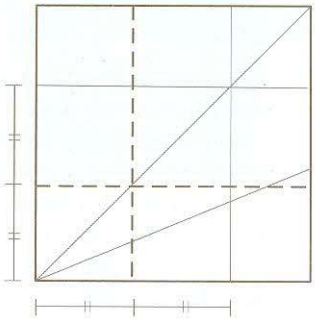


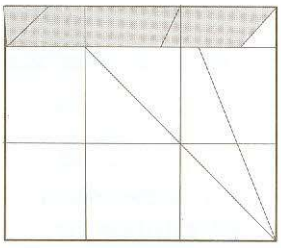




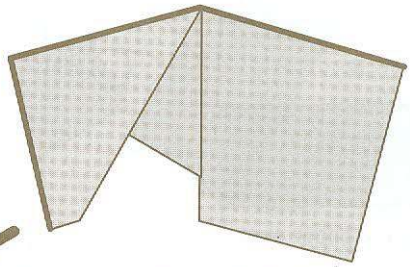




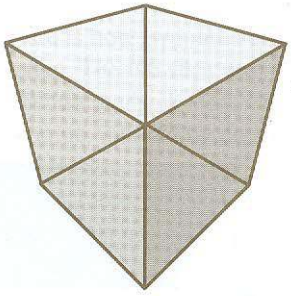




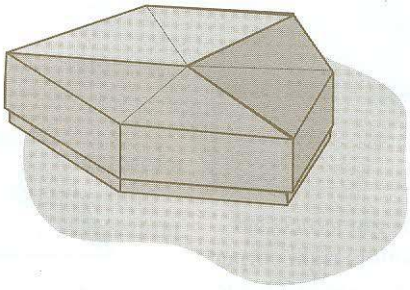
Continue as for the body.



Assemble as for body



View from above



DeZZ Unit

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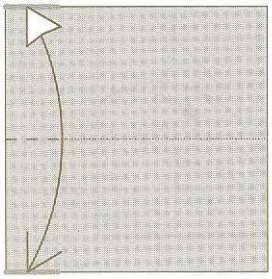
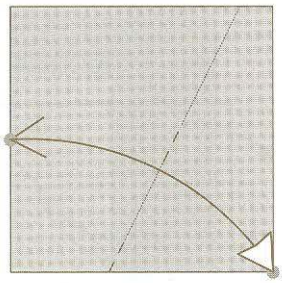
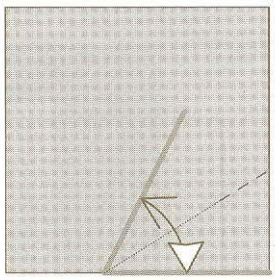
This is actually several units in one: a **Del**tahedron **Z**ig-**Z**ag unit, which can be used to fold any deltahedron (any polyhedron whose faces are equilateral triangles). A variation of the unit lets you fold a twisted-hole cube; another variation works for any deltahedrally elevated polyhedron; another variation folds a rhomboidal polyhedron that is the Wolfram Alpha logo. The units draw upon concepts identified and explored by Bob Neale, Lewis Simon, and Mitsunobu Sonobe, not to mention Tom Hull's famous PHiZZ unit, which provides, as well, the rationale for this module's name.



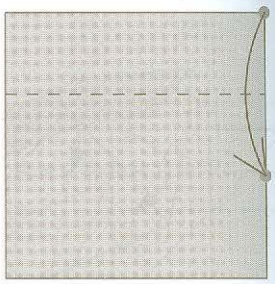
1. Begin with a square, colored side up. Fold in half vertically and unfold, making a pinch at the left.



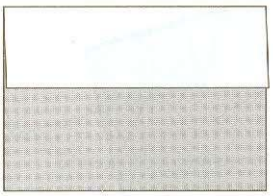
2. Fold the bottom left corner to the mark you just made, creasing as lightly as possible.



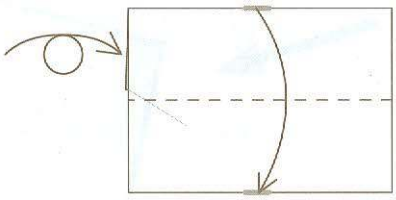
3. Fold and unfold along an angle bisector, making a pinch along the right edge.



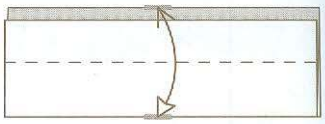
4. Fold the top left corner down to the crease intersection.



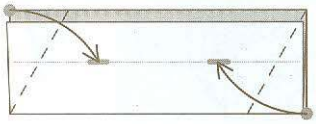
5. Turn the paper over.



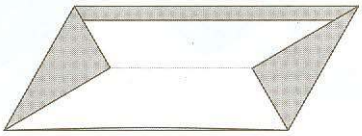
6. Fold the top folded edge down to the raw bottom edge.



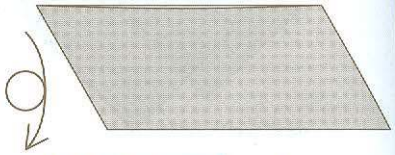
7. Fold the bottom folded edge (but not the raw edge behind it) up to the top and unfold.



8. Fold the top left corner and the bottom right corner to the crease you just made.



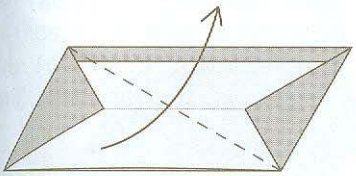
9. Here's the building block.



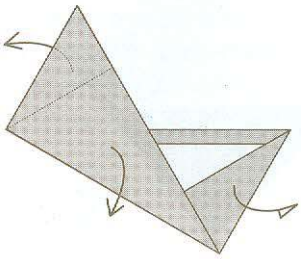
10. Here's the other side.

Deltahedra

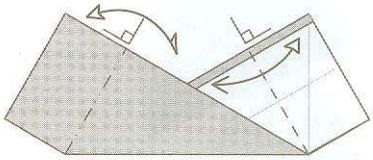
This unit can be used to make any polyhedron whose faces are equilateral triangles.



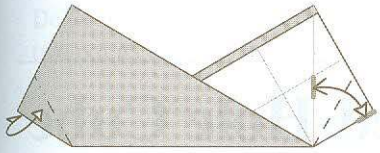
1. Begin with step 9 of the DeZZ building block. Fold the quadrilateral in half along the diagonal.



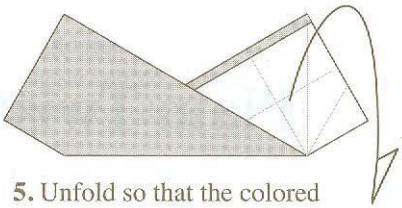
2. Unfold all the creases to 90° dhiedral angles. Make 12 units.



3. Fold and unfold. Repeat behind.

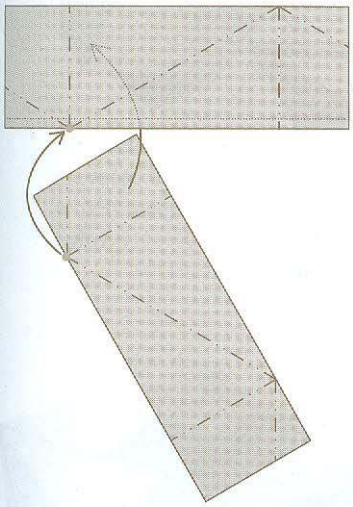


4. Fold and unfold. Repeat behind.

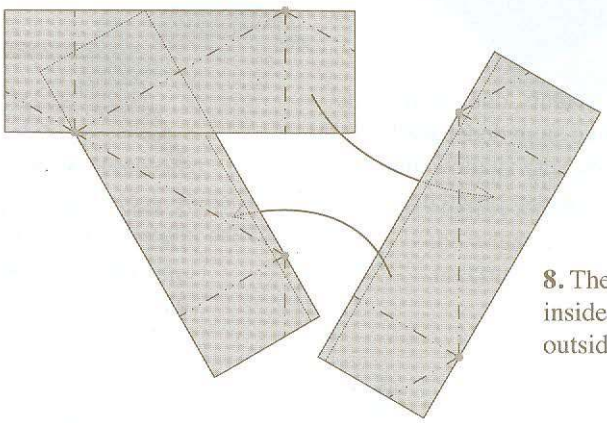


5. Unfold so that the colored side is visible.

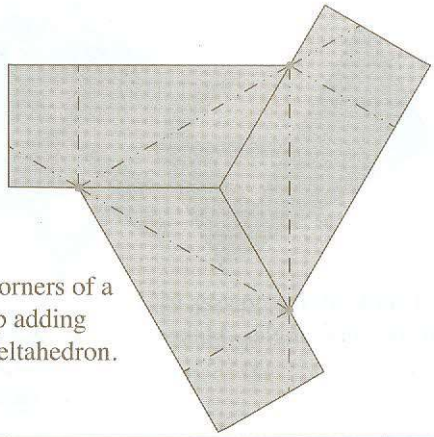
6. The mountain creases here show the folds that are used for the deltahedron. Fold $3N/2$ units for a deltahedron with N faces.



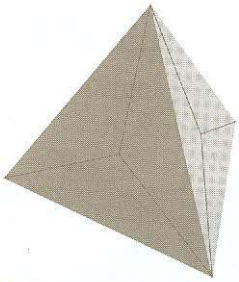
7. Here is how two units go together. The tab slips into the pocket on the back side, and the two points marked by dots come together.



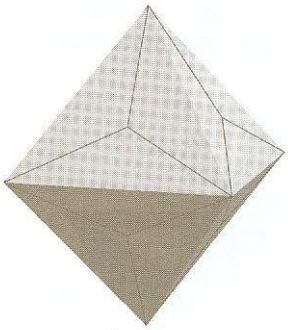
8. The third unit goes inside one pocket and outside one tab.



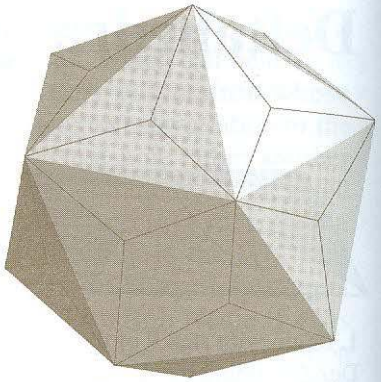
9. The dots are the corners of a triangular face. Keep adding units to create any deltahedron.



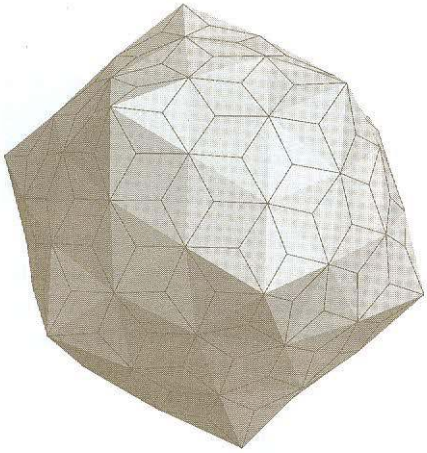
10. Here is a tetrahedron, from 6 units.



11. An octahedron takes 12 units.



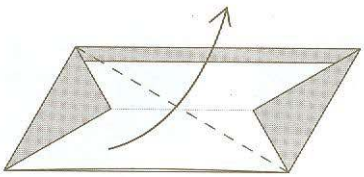
12. And an icosahedron takes 30 units.



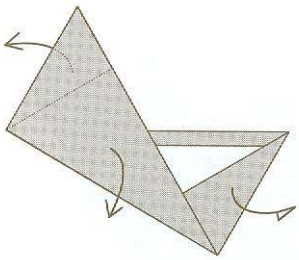
13. With 210 units, one can make a deltahedrified snub dodecahedron. However, the very shallow angles means that it doesn't hold together very well.

Plain Twisted-Hole Cube

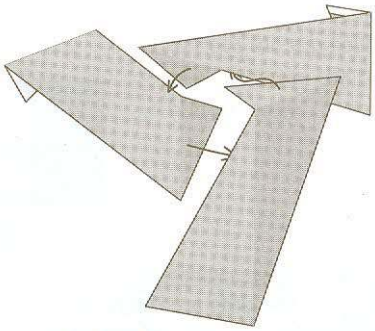
This structure is similar to Lewis Simon' s many twist-hole cubes, but uses the assembly technique of Robert Neale's dodecahedron.



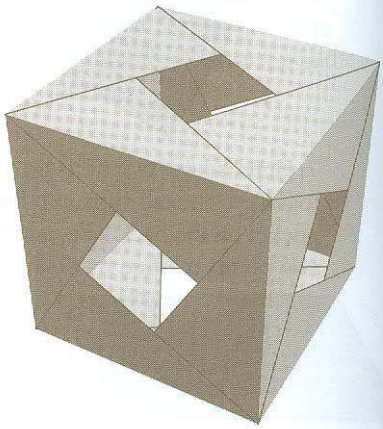
1. Begin with step 9 of the DeZZ building block. Fold the quadrilateral in half along the diagonal.



2. Unfold all the creases to 90° dhiedral angles. Make 12 units.



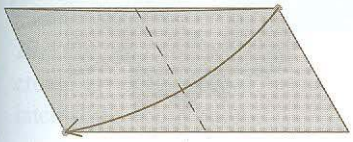
3. Join three units at a corner by sliding tabs into pockets.



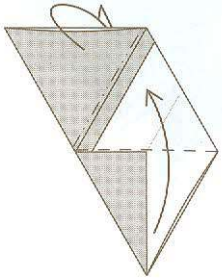
4. The finished cube.

Deltahedrally Elevated Polyhedra

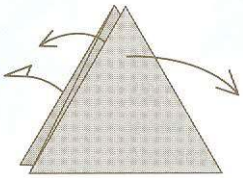
Elevation is the result of erecting a pyramid on each face. If the resulting new faces are equilateral triangles, then we can fold them from still another version of this unit that makes each face a seamless equilateral triangle.



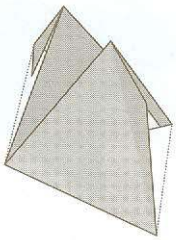
1. Begin with step 10 of the DeZZ building block. Bring two points together.



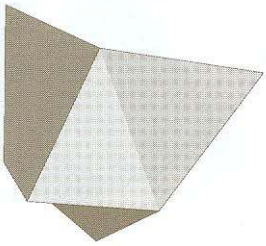
2. Fold the upper left triangle behind and the bottom triangle up.



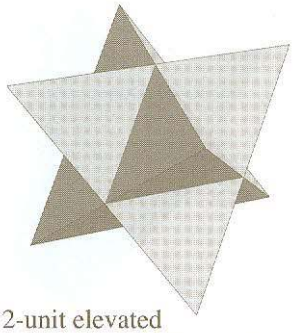
3. Partially unfold all of the folds along the strip.



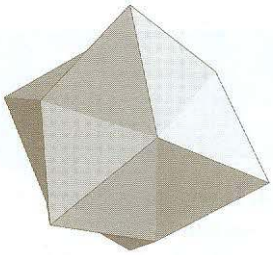
4. One unit makes a portion of a double pyramid.



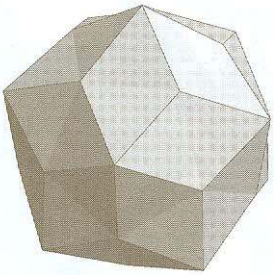
5. 4 units makes an elevated tetrahedron, which resembles a caltrop.



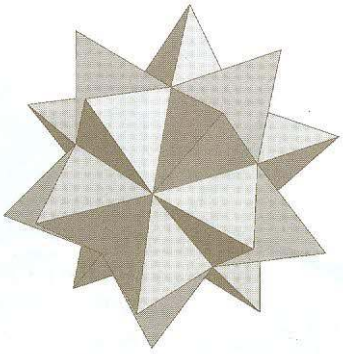
6. The 12-unit elevated octahedron is also a stellation of the octahedron; Kepler called it the *Stella Octangula*.



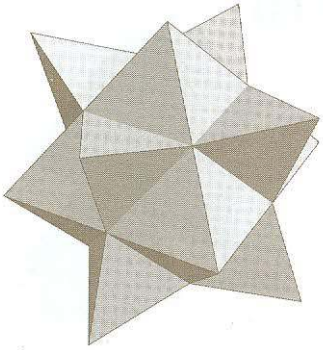
8. The elevated cube takes 12 units, and resembles a slightly stubbier version of the origami model called the *Jackstone*.



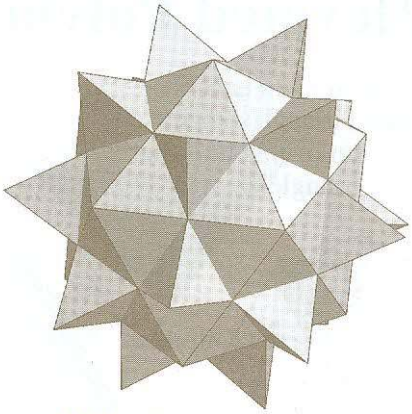
9. The 30-unit elevated dodecahedron is a slightly bumpy ball that is close to, but not exactly, a rhombic triacontahedron.



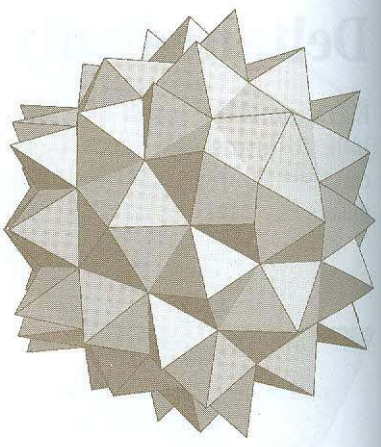
10. The 30-unit elevated icosahedron is considerably bumpier. It is close to, but not exactly, a stellation of the dodecahedron.



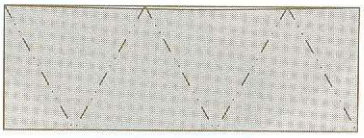
11. The elevated cuboctahedron takes 24 units.



12. The elevated icosidodecahedron takes 60 units. Leonardo da Vinci described (and named) this solid.

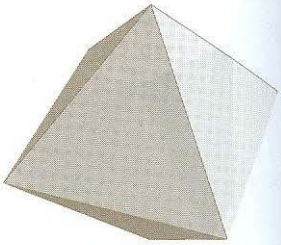


13. And finally, 200 units will build you the elevated small rhombicosidodecahedron.

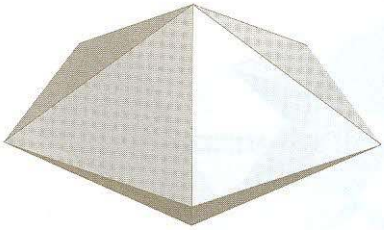


14. If you make 3 units with all mountain folds, they can be assembled into the deltahedral equivalent of *Takahama's Jewel*.

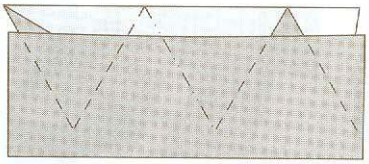
15 . Which is a deltahedrally elevated trigonal dihedron, or, more simply, a tetrahedral dipyramid.



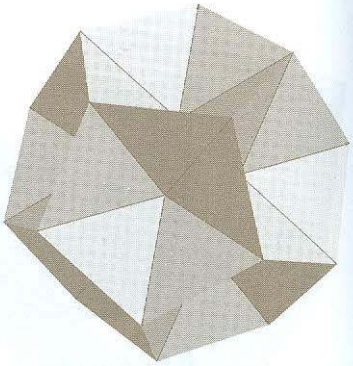
16 . Four units gives a deltahedrally elevated square dihedron, or a square dipyramid, or simply, an octahedron.



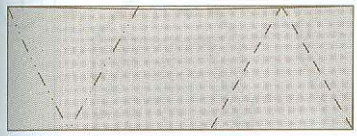
17. And 5 such units gives a pentagonal dipyramid.



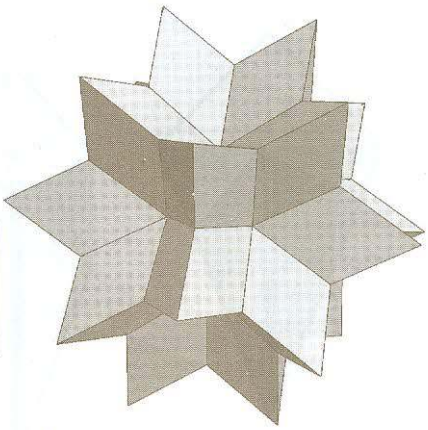
18. If a polyhedron is elevated with negative height, we call it "depressed." You can fold depressed polyhedra by changing the parity of some of the creases like this.



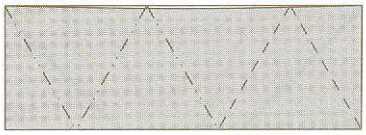
19 . This depressed dodecahedron requires 30 units, like its elevated kin.



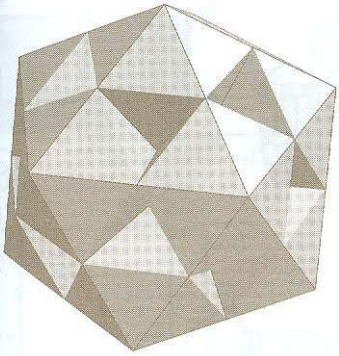
20. Leaving out the middle crease gives a unit that has an interesting application...



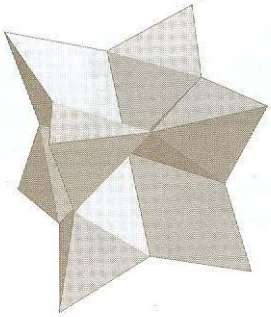
21. If you elevate the triangles and depress the pentagons of an icosidodecahedron, you get this shape, which also happens to be the logo of Wolfram | Alpha.



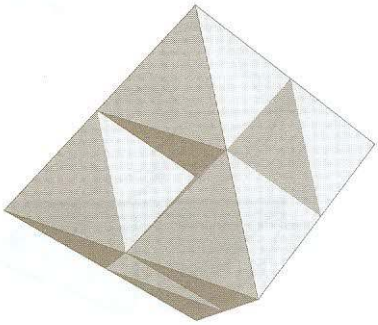
22. With the mountain fold back in place, we can make other mixed elevated/depressed polyhedra...



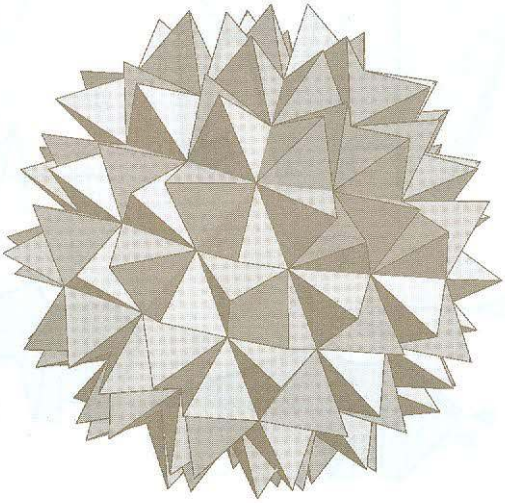
23. If you depress the triangles and elevate the pentagons of the icosidodecahedron, you get an icosahedron with holes.



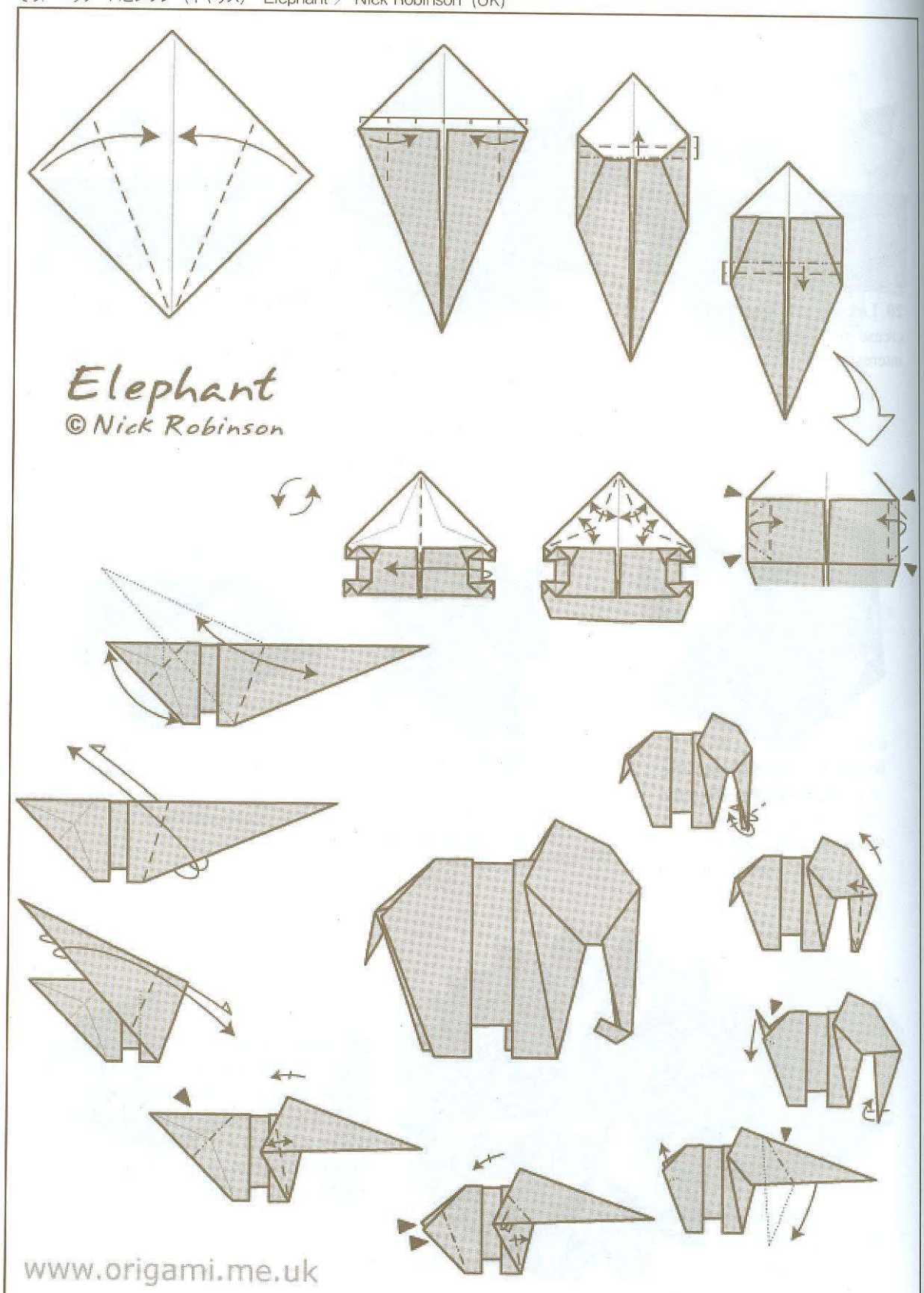
24. We can treat the cuboctahedron similarly. Elevated triangles, depressed squares in a cuboctahedron.



25. Elevated squares, depressed triangles in a cuboctahedron.

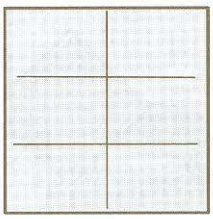


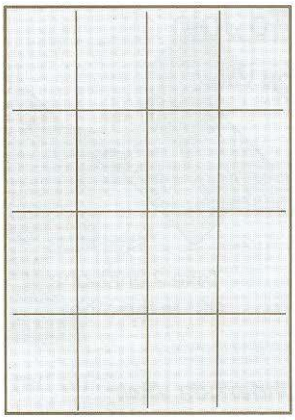
26. And finally, to wrap up, going back to the original elevated unit, 210 units give a deltahedrally-elevated deltahedrified snub dodecahedron. (Yes, that' s double-deltahedrification!)


Elephant
© Nick Robinson
www.origami.me.uk

Pixel Unit

© Max Hulme

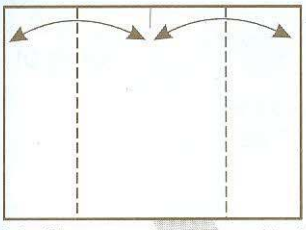




Paper can be square or A4 and the same colour on both sides.

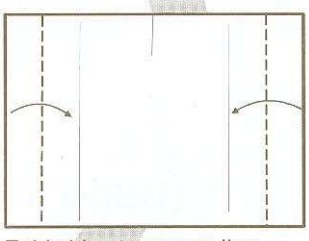
A square makes 6 pieces while A4 makes 16.
A pixel unit can be made

1



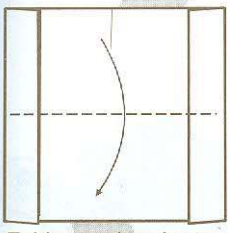
Pinch halfway mark on long side then fold sides to his pinch mark and unfold.

2



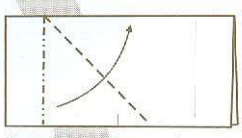
Fold sides to crease line

3



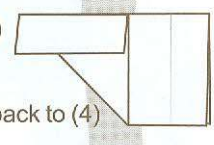
Fold top edge down.

4



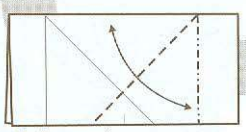
pleat left crease to folded top line (both layers)

5



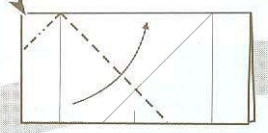
open back to (4)

6



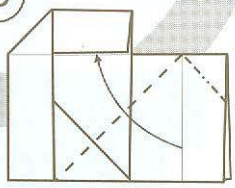
pleat right crease to folded top line and unfold (fold both layers)

7



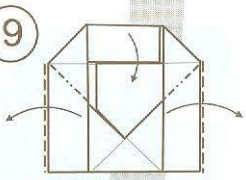
fold up single layer on left 45° crease squash top left corner

8



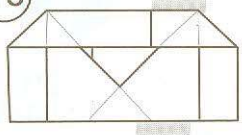
repeat on right 45° crease tucking top edge under left flap

9



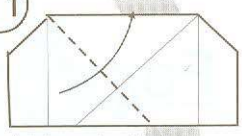
open out sides as top folds down

10



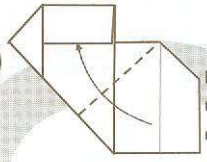
turn over

11



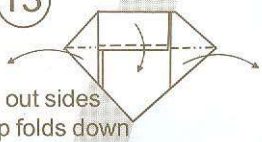
fold up single layer on left 45° crease

12



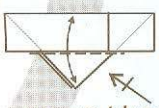
repeat on right 45° crease tucking top edge under left flap

13



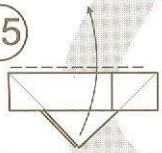
open out sides as top folds down

14

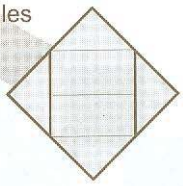


crease triangles

15

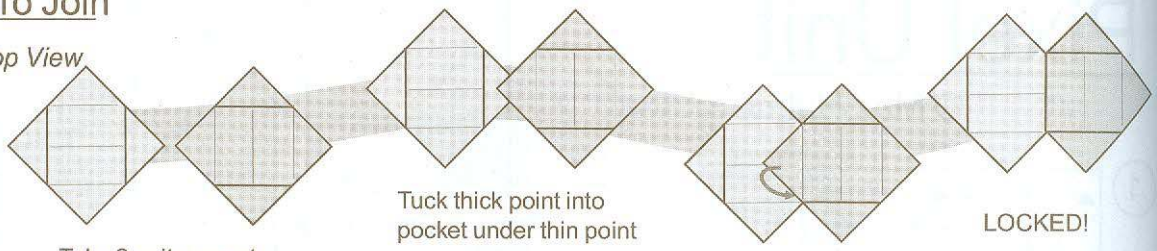


separate triangles

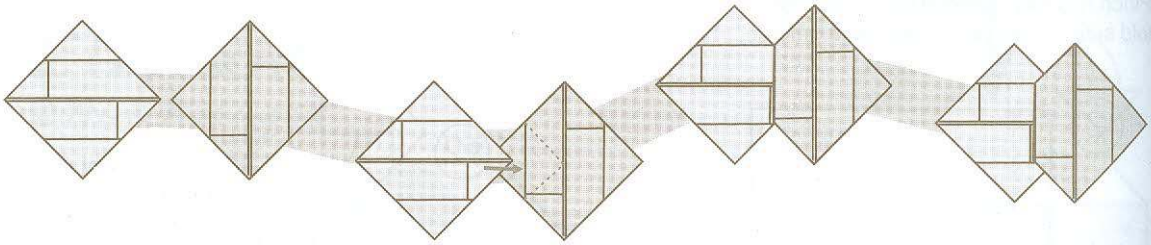


To Join

Top View



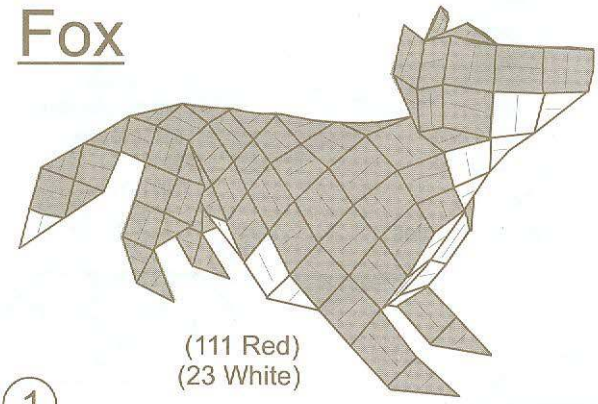
Underside View



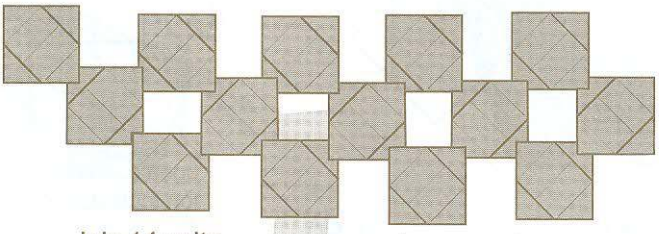
(page 1 of 1)

Fox

1st August 2010

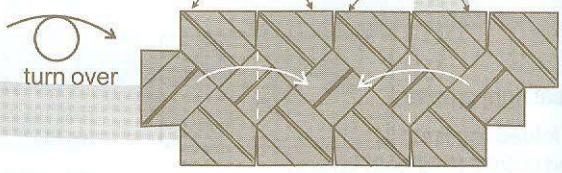


(111 Red)
(23 White)

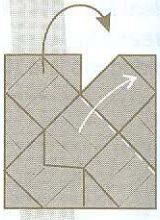


① Join 14 units

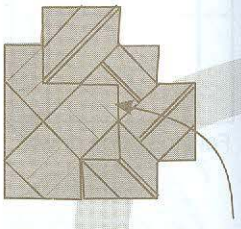
②



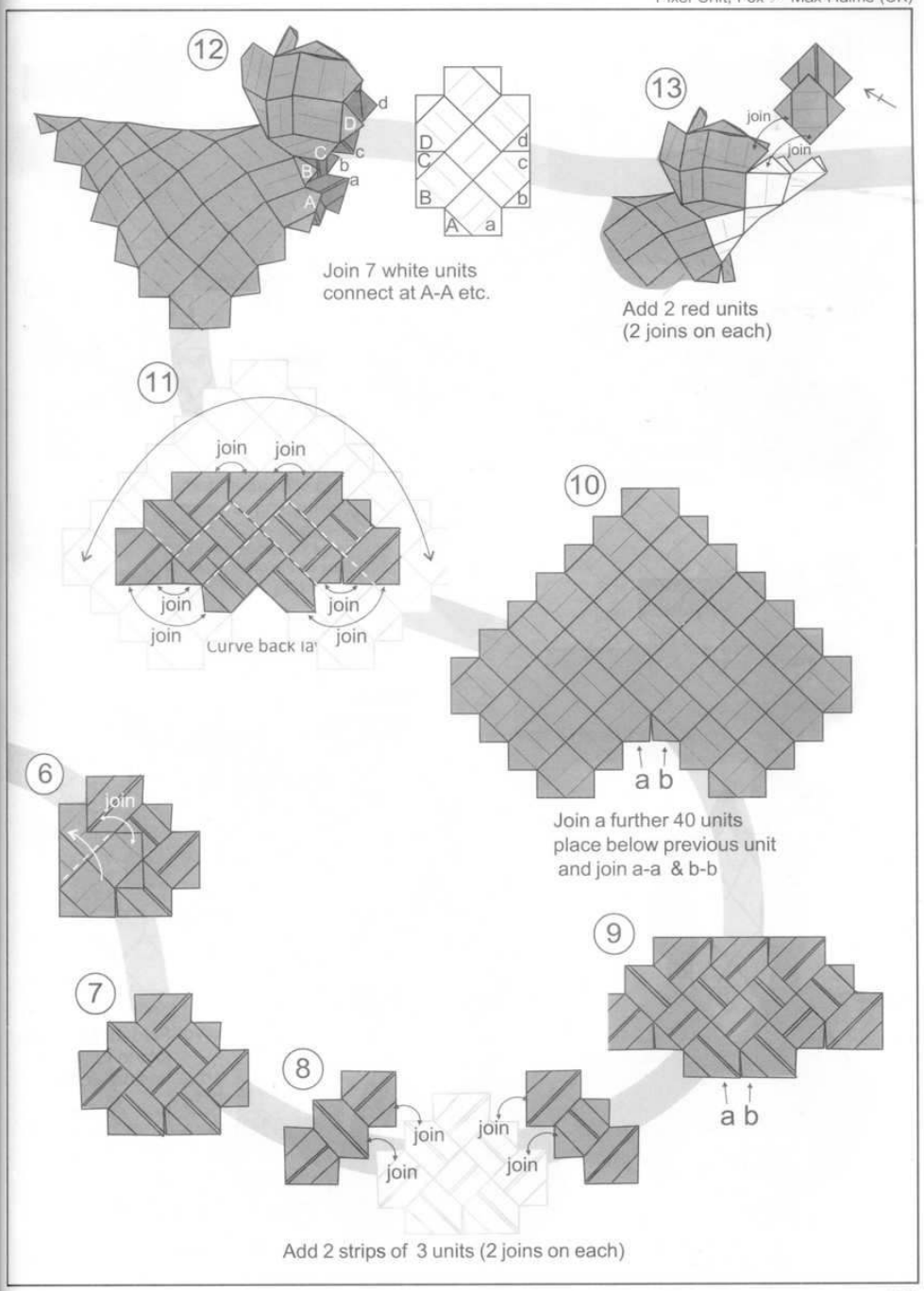
③

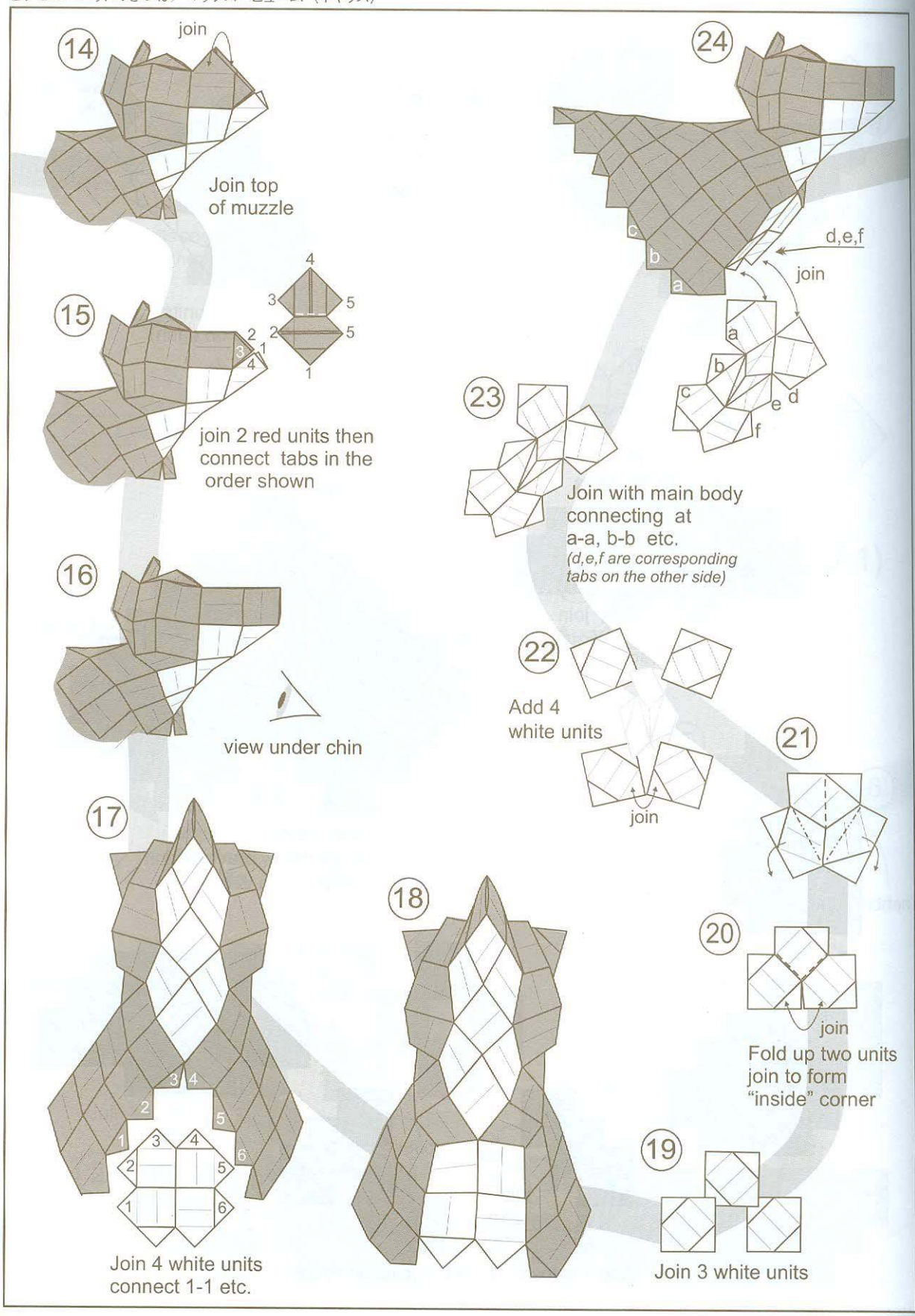


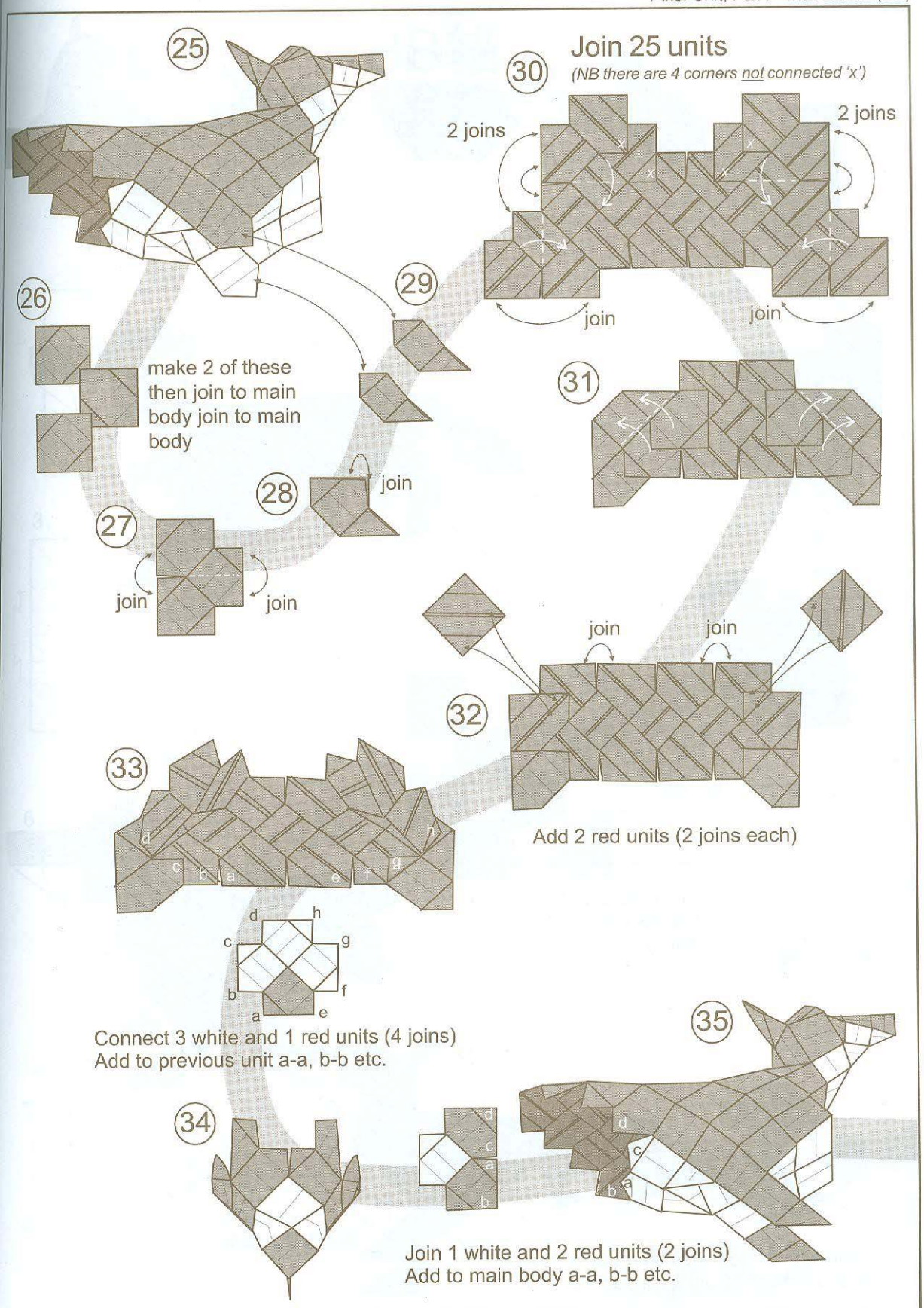
④

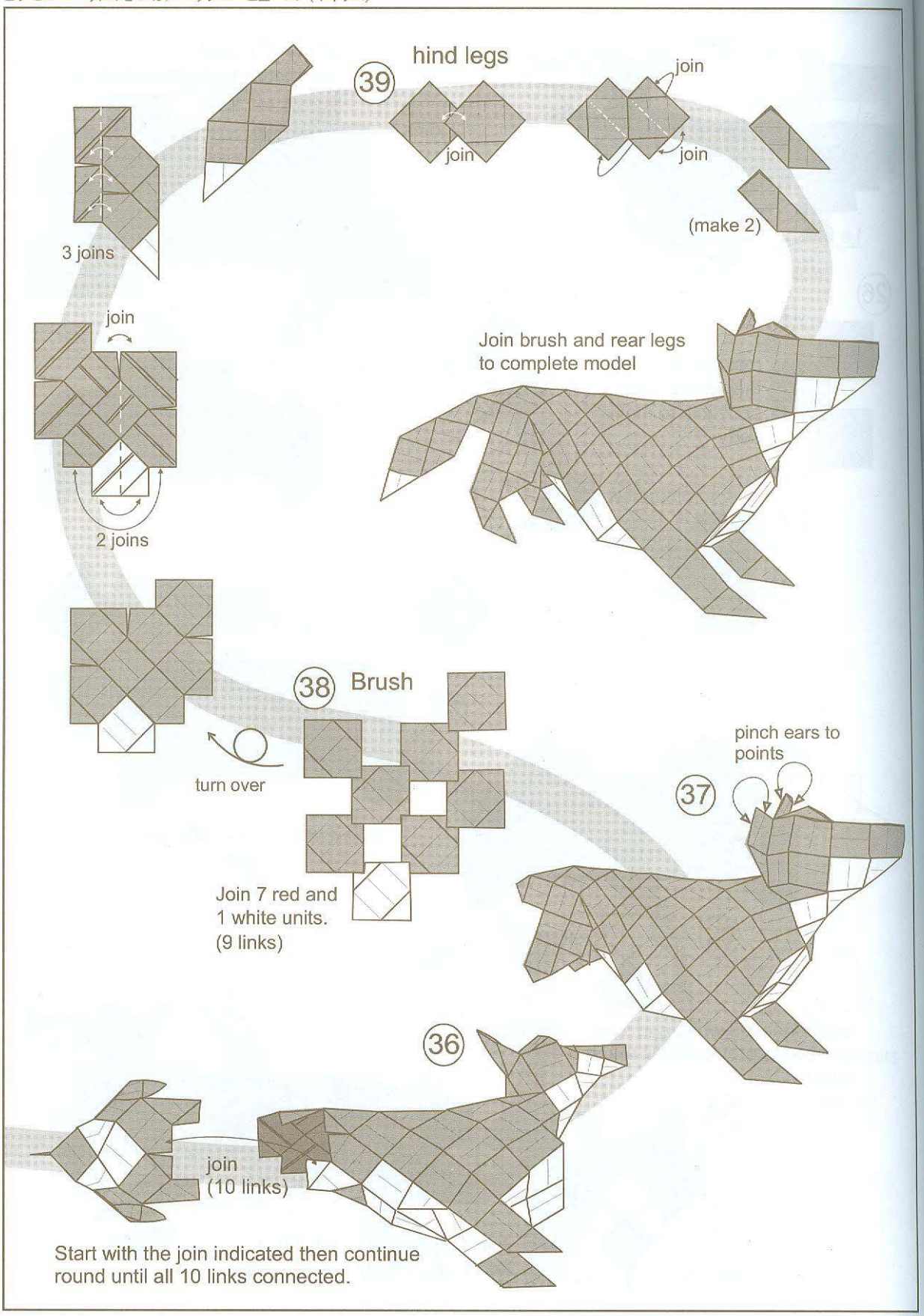


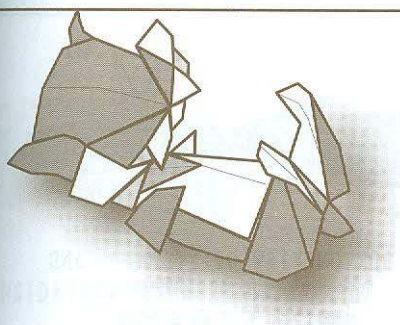
⑤ Free this tab if hidden


12
d
D
C
c
B
b
a
A
D
d
C
c
B
b
A
a
Join 7 white units
connect at A-A etc.
13
join
join
Add 2 red units
(2 joins on each)
11
join
join
join
join
join
join
10
a b
Join a further 40 units
place below previous unit
and join a-a & b-b
6
join
9
a b
7
8
join
join
join
join
Add 2 strips of 3 units (2 joins on each)


14
join
Join top
of muzzle
15
4
3
5
2
5
1
2
1
3
4
join 2 red units then
connect tabs in the
order shown
16
view under chin
17
3
4
2
5
1
6
3
4
2
5
1
6
Join 4 white units
connect 1-1 etc.
18
24
c
b
a
d,e,f
join
a
b
c
e
d
f
23
Join with main body
connecting at
a-a, b-b etc.
(d,e,f are corresponding
tabs on the other side)
22
Add 4
white units
join
21
20
join
Fold up two units
join to form
"inside" corner
19
Join 3 white units


25
26
make 2 of these then join to main body join to main body
27
join
join
28
join
29
30
Join 25 units
(NB there are 4 corners not connected 'x')
2 joins
2 joins
x
x
x
x
join
join
31
32
join
join
Add 2 red units (2 joins each)
33
d
c
b
a
e
f
g
h
d
h
c
g
b
f
a
e
Connect 3 white and 1 red units (4 joins)
Add to previous unit a-a, b-b etc.
34
d
c
a
b
35
d
c
a
b
Join 1 white and 2 red units (2 joins)
Add to main body a-a, b-b etc.


hind legs
39
join
join
join
(make 2)
3 joins
join
2 joins
Join brush and rear legs
to complete model
38
Brush
turn over
Join 7 red and
1 white units.
(9 links)
pinch ears to
points
37
36
join
(10 links)
Start with the join indicated then continue
round until all 10 links connected.



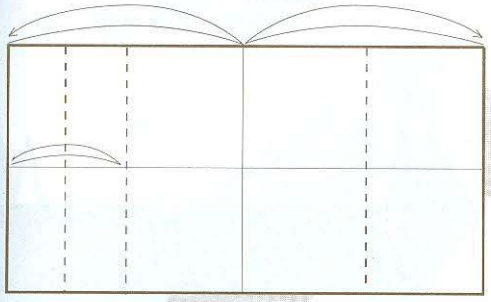
BB貓 Baby Cat

創作&圖解: 羅瑜 (阿月)
CREATOR & DIAGRAM: LO YU (ylo33) 作: 2010-11 圖: 2012-05

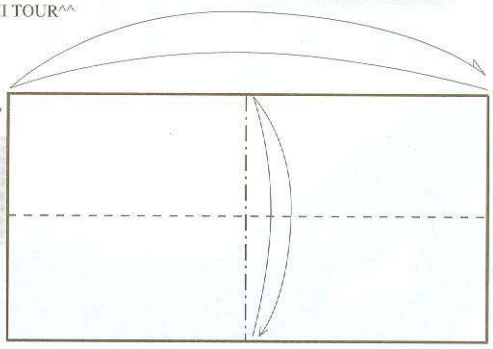
PAPER – 1:2

THIS IS MY 2ND DIAGRAM. I DESIGNED IT WHEN I WAS ON THE WAY TO WORKING PLACE AGAIN. IT IS A CAT WHICH SLEEP LIKE A NEW BORN BABY, SO I NAMED IT "BABY CAT",BUT SOMEONE SAID IT IS A BABY FOX! IT IS OK, THIS LEFT MORE IMAGINE SPACE FOR EVERYONE~ IS IT CUTE? I WOULD BE HAPPY WHEN ANYBODY LEAVES ME MESSAGES FOR MY DESIGN. LET 'S ENJOY THE ORIGAMI TOUR^^

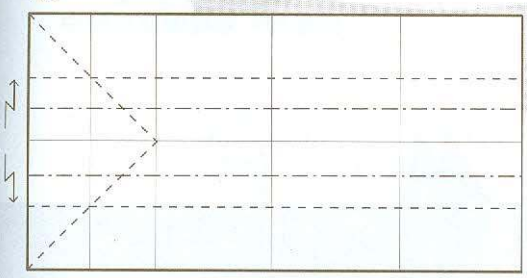
2.



1.



3.



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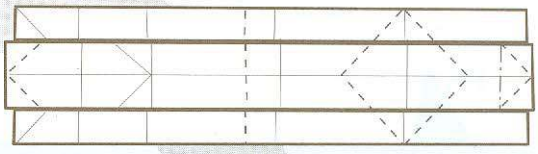
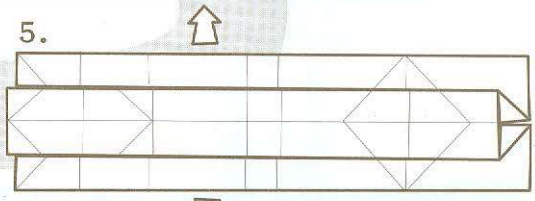


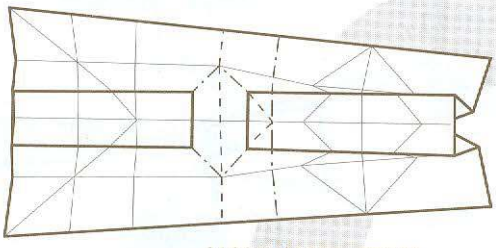
PRE-CREASES
預摺

5.



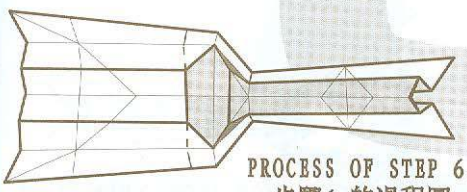
PULL, BUT KEEP CONSTANT ON RIGHT HAND SIDE
拉開，但注意保持右邊

6.



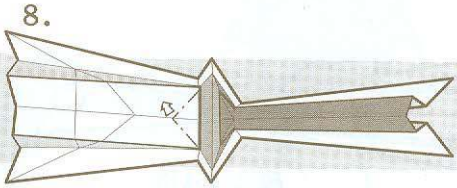
CLOSE ALONG THOSE CREASES
按照上圖摺線慢慢合上

7.

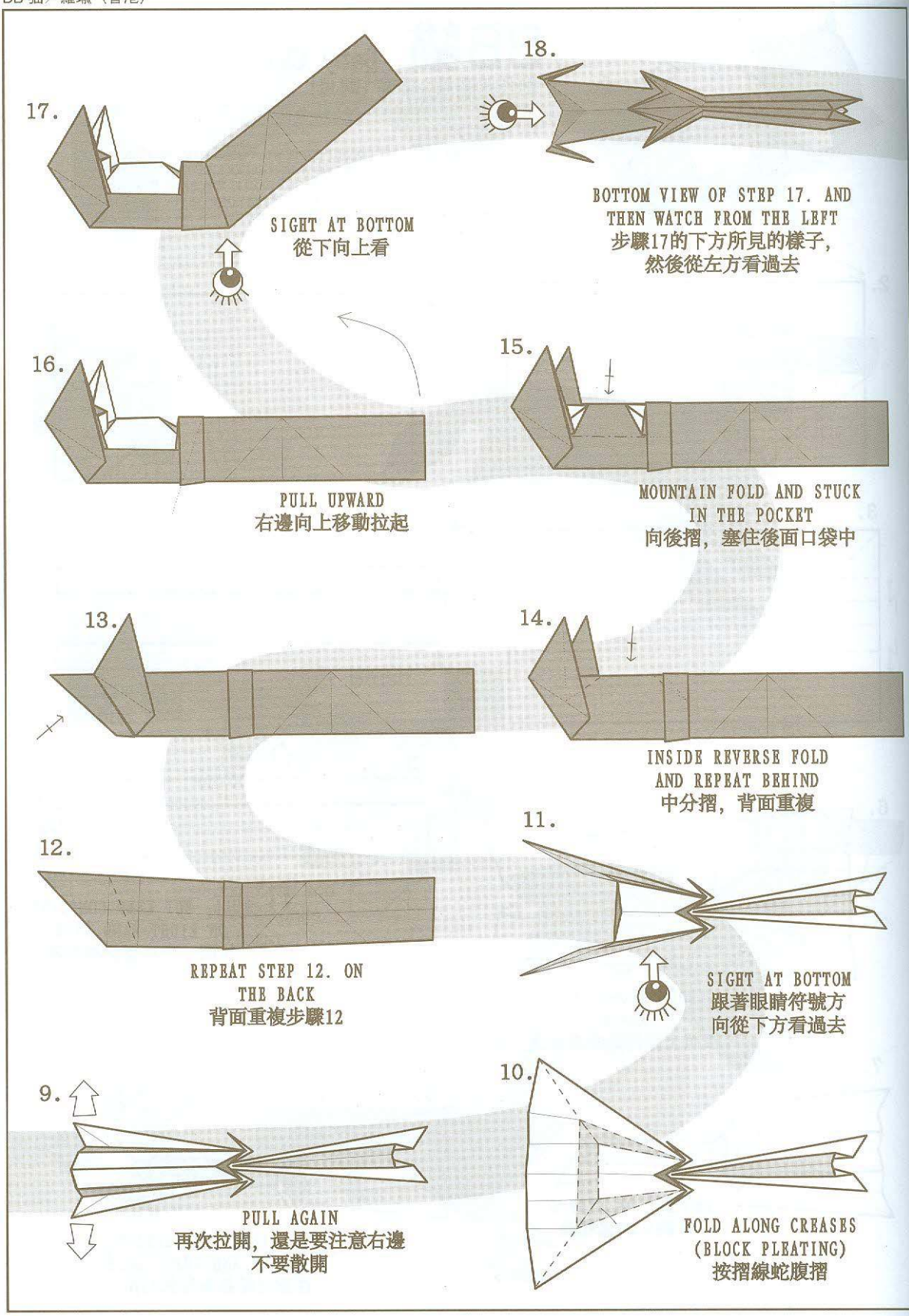


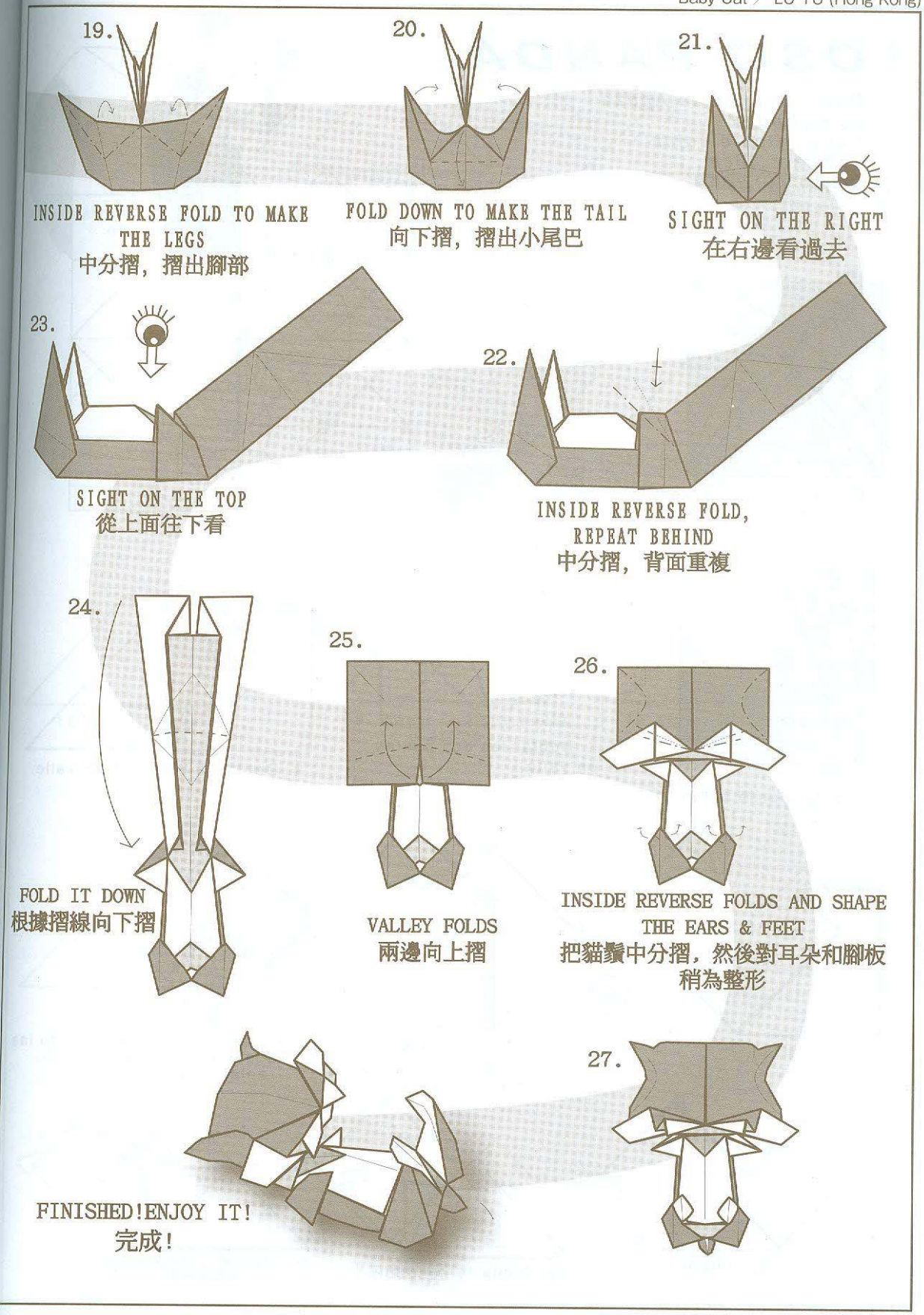
PROCESS OF STEP 6.
步驟6.的過程圖

8.



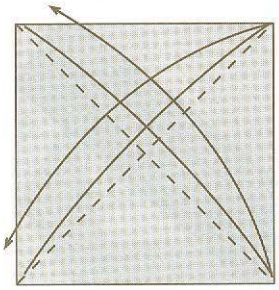
PULL THE INTERSACTION POINT UP AND THEN CLOSE
注意交點是要拉起凸出


17.
SIGHT AT BOTTOM
從下向上看
18.
BOTTOM VIEW OF STEP 17. AND THEN WATCH FROM THE LEFT
步驟17的下方所見的樣子，然後從左方看過去
16.
PULL UPWARD
右邊向上移動拉起
15.
MOUNTAIN FOLD AND STUCK IN THE POCKET
向後摺，塞住後面口袋中
13.
14.
INSIDE REVERSE FOLD AND REPEAT BEHIND
中分摺，背面重複
12.
REPEAT STEP 12. ON THE BACK
背面重複步驟12
11.
SIGHT AT BOTTOM
跟著眼睛符號方向從下方看過去
9.
PULL AGAIN
再次拉開，還是要注意右邊不要散開
10.
FOLD ALONG CREASES (BLOCK PLEATING)
按摺線蛇腹摺

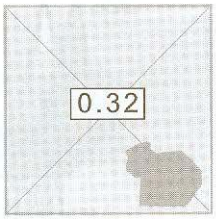

19.
INSIDE REVERSE FOLD TO MAKE THE LEGS
中分摺，摺出腳部
20.
FOLD DOWN TO MAKE THE TAIL
向下摺，摺出小尾巴
21.
SIGHT ON THE RIGHT
在右邊看過去
22.
INSIDE REVERSE FOLD, REPEAT BEHIND
中分摺，背面重複
23.
SIGHT ON THE TOP
從上面往下看
24.
FOLD IT DOWN
根據摺線向下摺
25.
VALLEY FOLDS
兩邊向上摺
26.
INSIDE REVERSE FOLDS AND SHAPE THE EARS & FEET
把貓鬚中分摺，然後對耳朵和腳板稍為整形
27.
FINISHED!ENJOY IT!
完成！

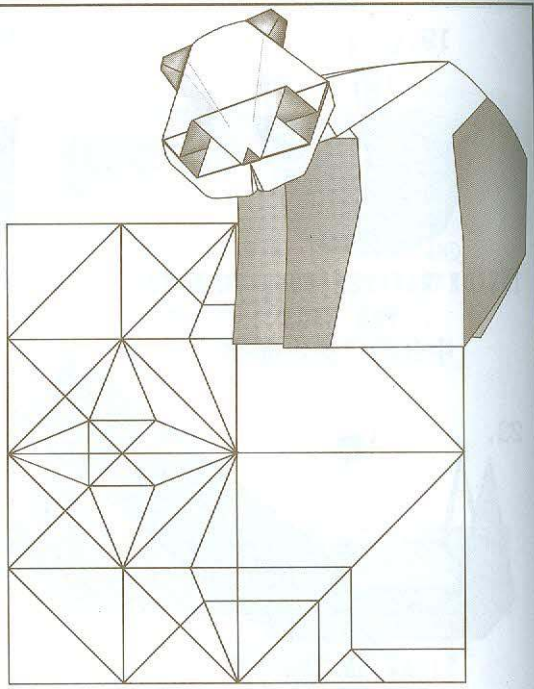
OSO PANDA

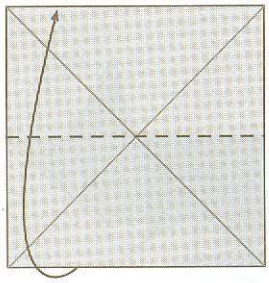
David S. Llanque Apaza
Dificultad: 2
Papel: Doble color
Tamaño: 30cm.
Creado: xx/12/2009.



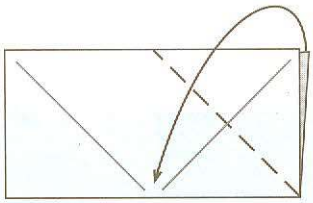
1. Doblar y desdoblar las diagonales.



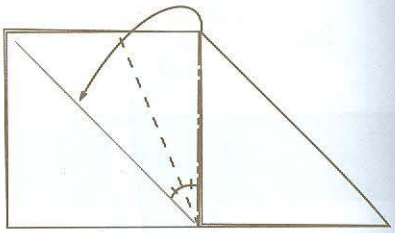




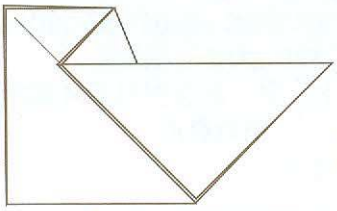
2. Doblar por la mitad.



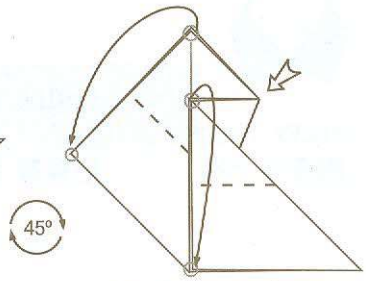
3. Doblar las dos puntas en valle.



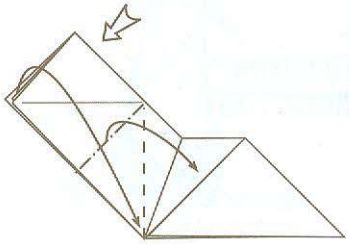
4. Doblar la bisectriz en valle.



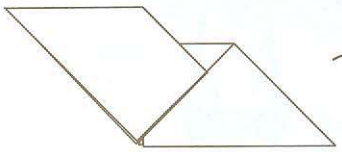
5. Girar.



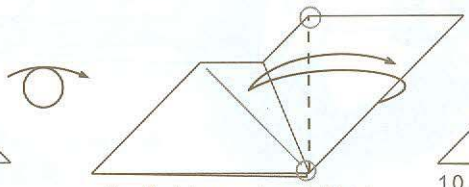
6. Llevar ambas puntas hacia los puntos.



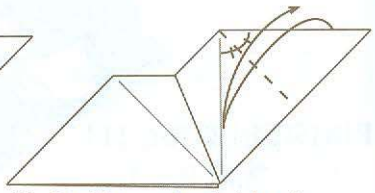
7. Doblar en montaña llevando las dos puntas hacia el punto, aplastando por el borde.



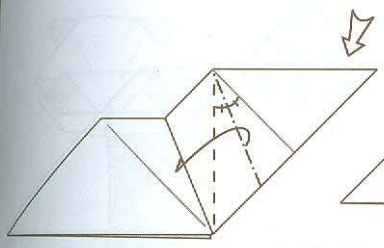
8. Voltear.



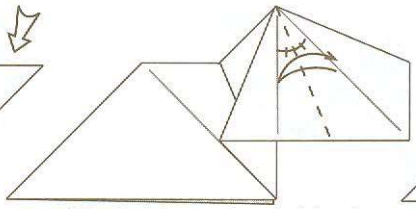
9. Doblar y desdoblar.



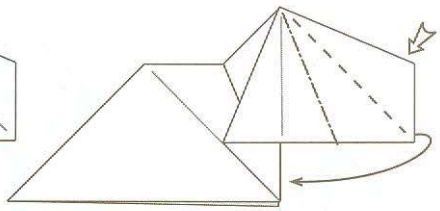
10. Doblar y desdoblar la bisectriz.



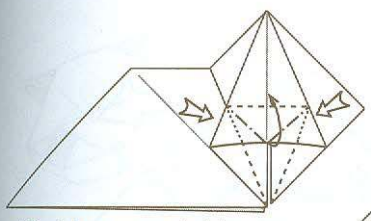
11. Hacer una bisectiz y doblarla en montaña.



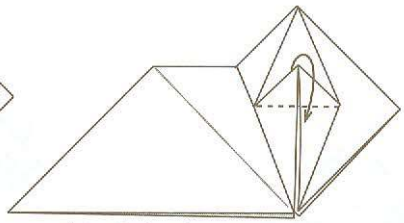
12. Doblar y desdoblar la bisectriz.



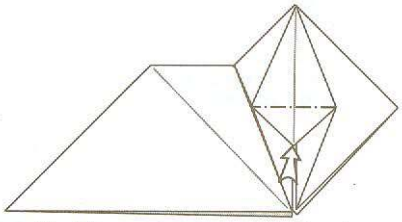
13. Llevar la punta hacia abajo aplastando el borde.



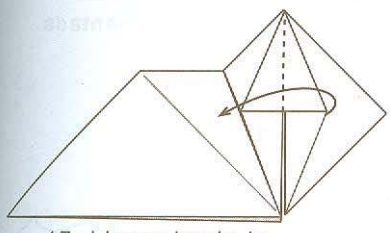
14. Hacer un doblez en petalo.



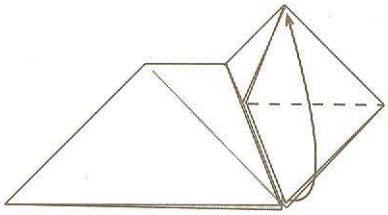
15. Bajar la punta.



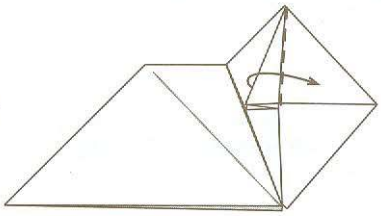
16. Esconder la punta hacia adentro.



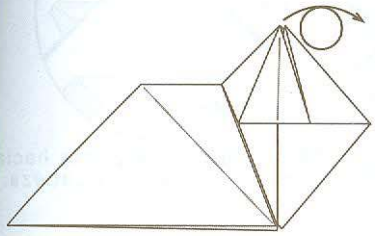
17. Llevar hacia la izquierda.



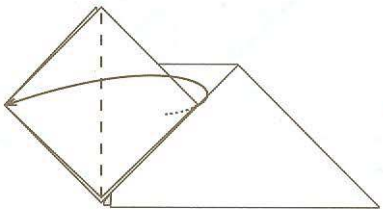
18. Llevar la punta hacia arriba



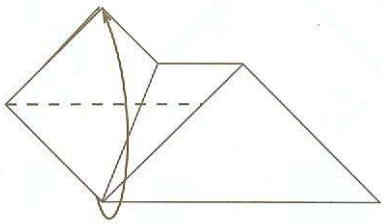
19. Llevar una capa hacia la derecha.



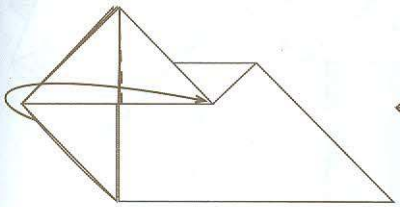
20. Voltear.



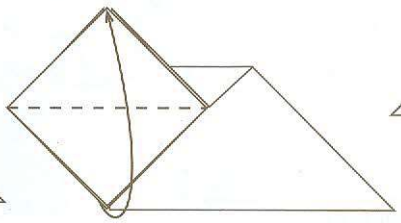
21. Llevar la punta hacia la izquierda.



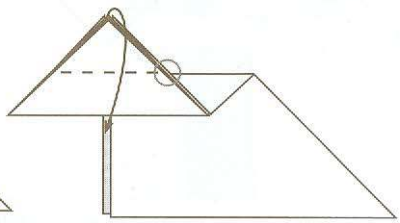
22. Doblar en valle.



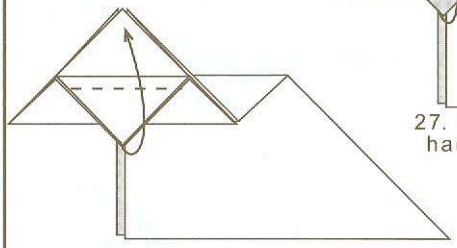
23. Regresar la punta hacia la derecha.



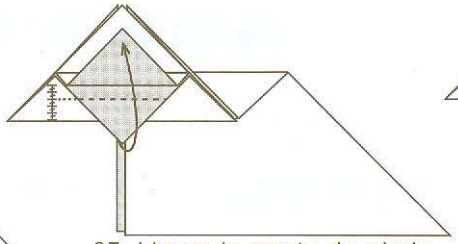
24. Llevar las dos puntas hacia arriba.



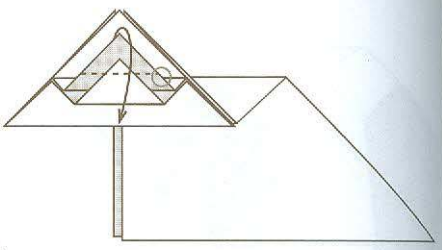
25. Bajar las dos puntas por la marca indicada.



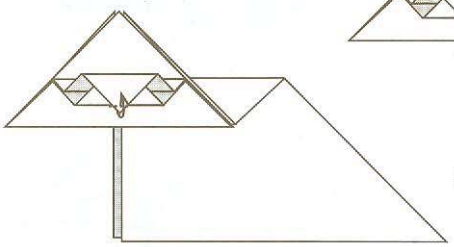
26. Llevar una punta hacia arriba dejando unos milimetros.



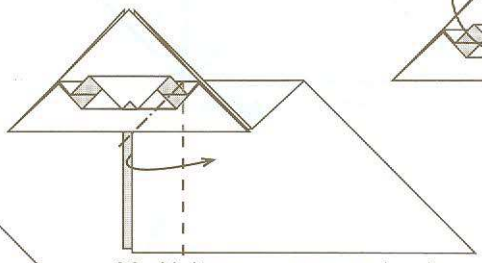
27. Llevar la punta de abajo hacia arriba siguiendo las referencias.



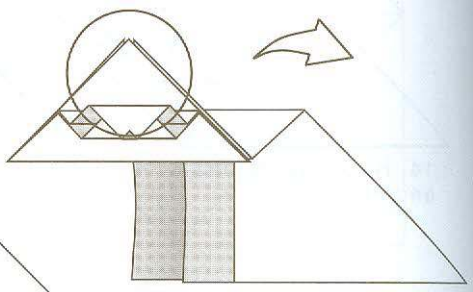
28.Doblar en valle la punta superior dejando unos milimetros del punto indicado.



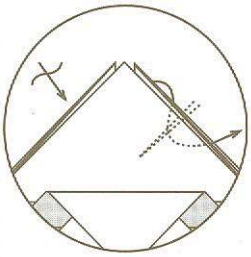
29.Revertir la punta.



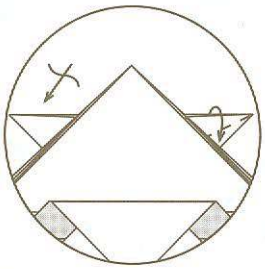
30. Voltear una capa desde arriba .



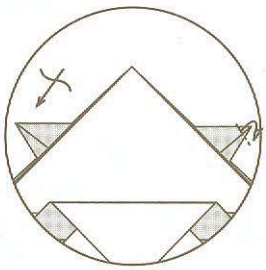
31. Vista aumentada.



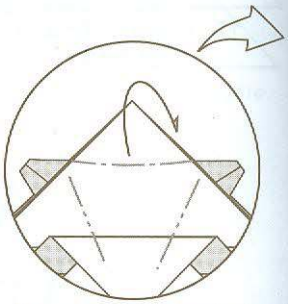
32. Revertir.



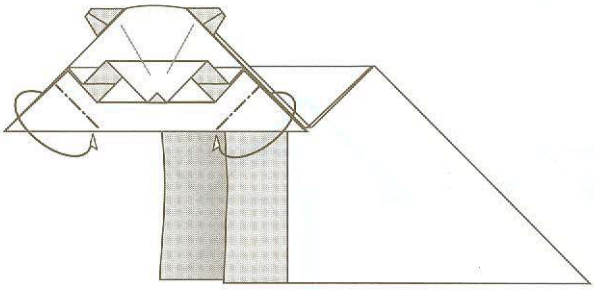
33. Voltear una capa.



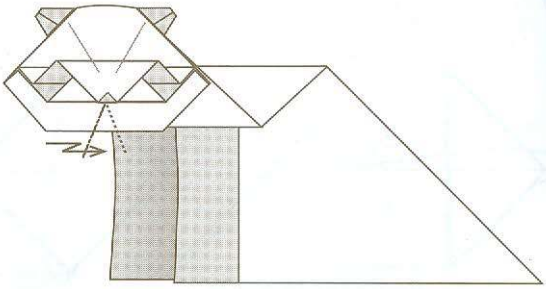
34. Doblar la oreja.



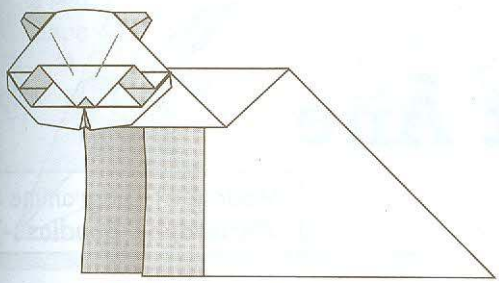
35. Esconder la punta hacia atras triangular la cabeza.



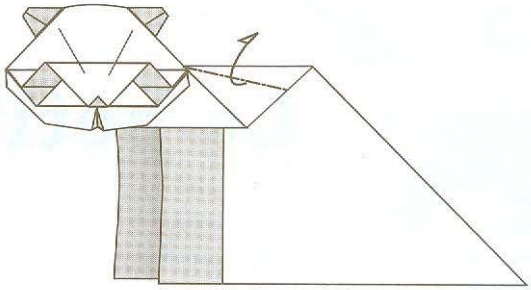
36. Revertir al punta .



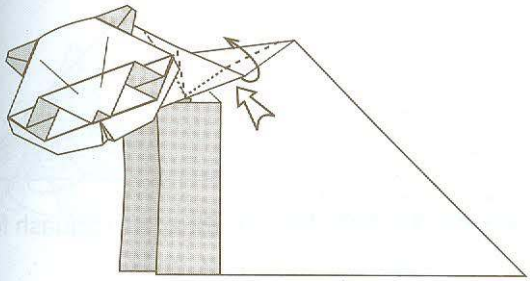
37. Escalonar.



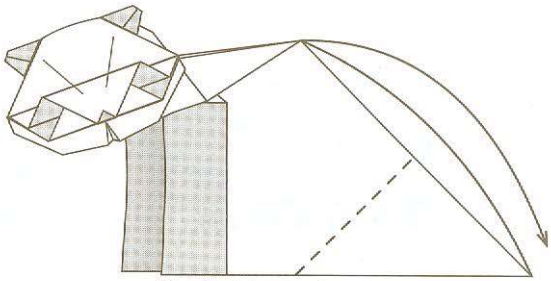
38. Doblar y desdoblar.



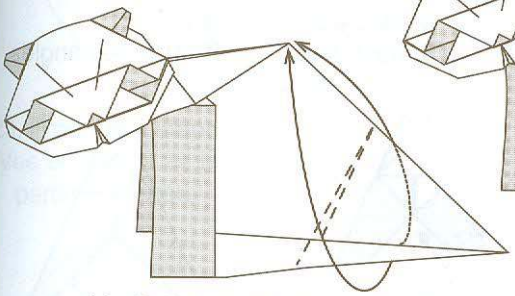
39.Levantar un poco, moviendo la cabeza hacia abajo.



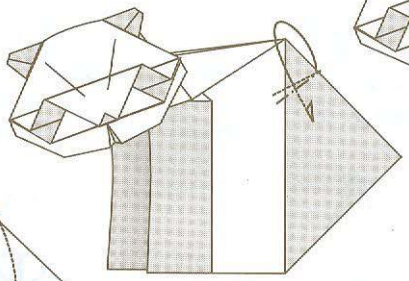
40.Hacer un doblez pivotado.



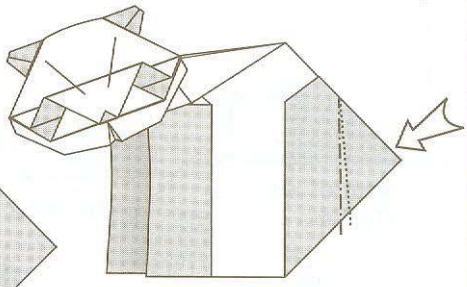
41. Doblar y desdoblar.



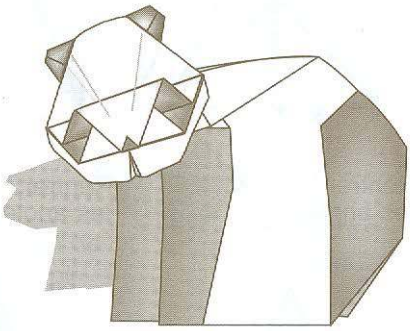
42. Abrir por el medio y llevar por ambos lados hacia arriba.

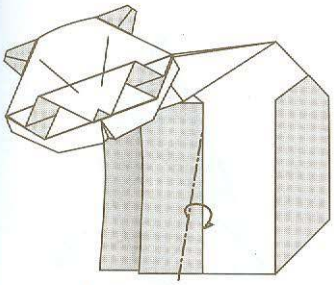


43. Esconder la punta.

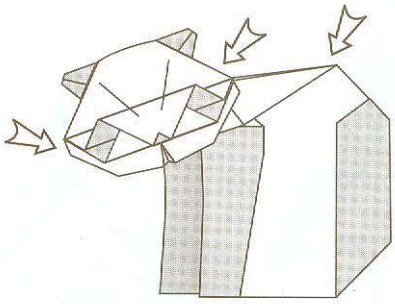


44. Hundir.



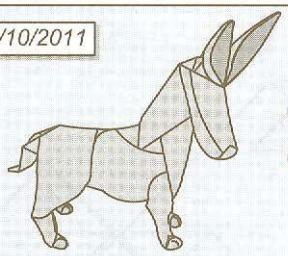


45.Doblar en monte.



46. Hundir suavemente y dar volumen a la cabeza.

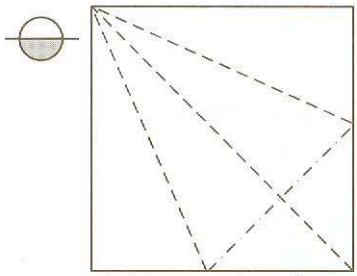
17/10/2011



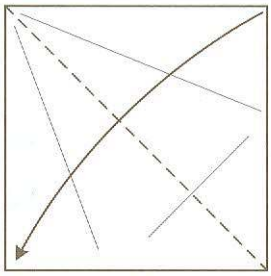
Le petit Âne

Modèle et Diagramme :
Christophe Boudias ;-)

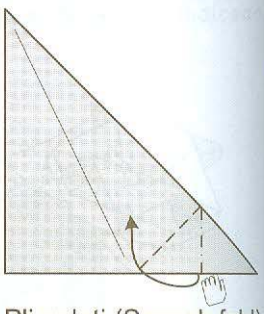
min: 20x20cm => 8.5cm x 8cm.



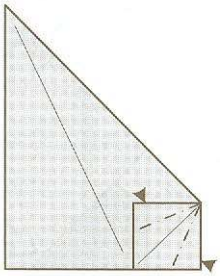
1. Marquer les plis.



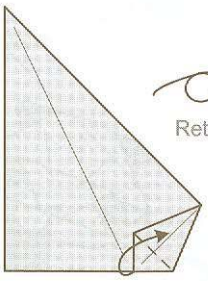
2. Plier suivant la diagonale.



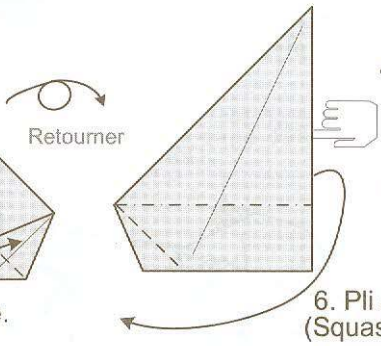
3. Pli aplati (Squash fold).



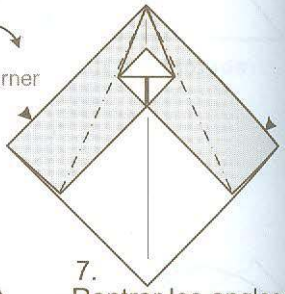
4. Rentrer les angles.



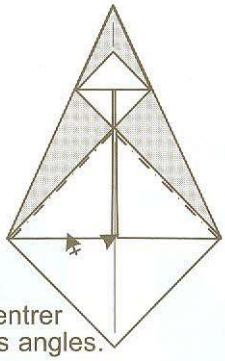
5. Pli valée.



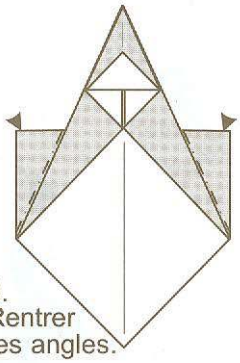
6. Pli aplati (Squash fold).



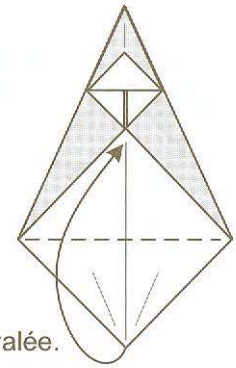
7. Rentrer les angles.



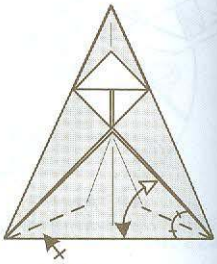
8. Rentrer les angles.



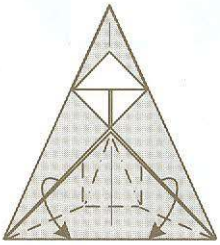
9. Rentrer les angles.



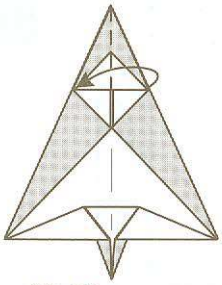
10. Pli valée.



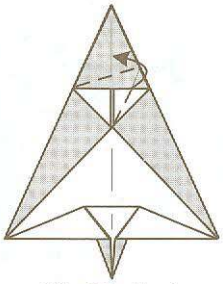
11. Marquer les bissectrices.



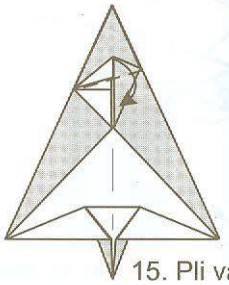
12. Plier vers le bas.



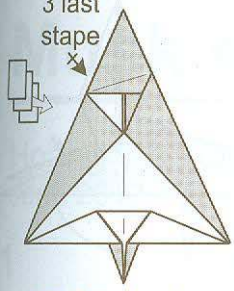
13. Plier vers la gauche.



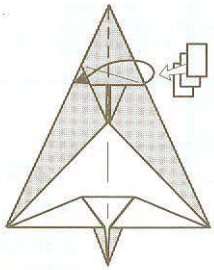
14. Pli pivot.



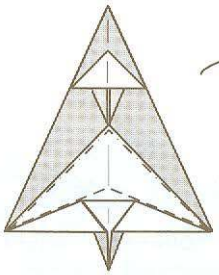
15. Pli vallée.



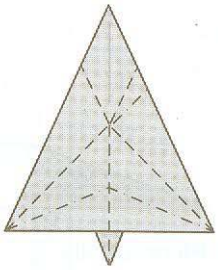
16. Répéter les étapes 13 à 15 côté gauche.



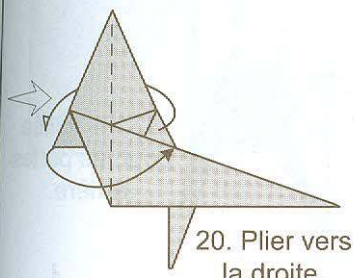
17. Plier vers la gauche.



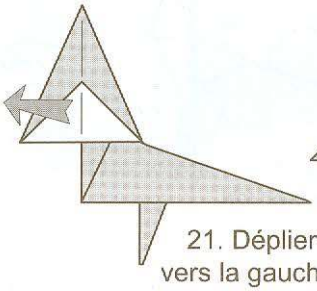
18. Marquer les plis et retourner.



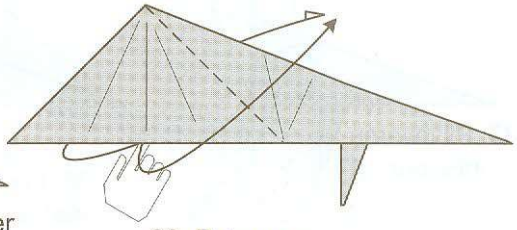
19. Fermer le modèle.



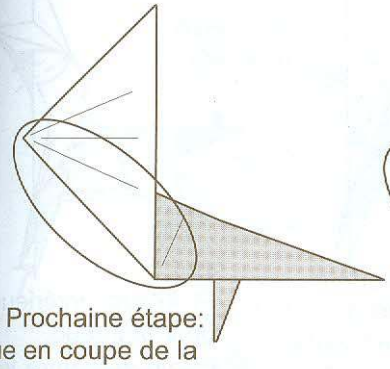
20. Plier vers la droite.



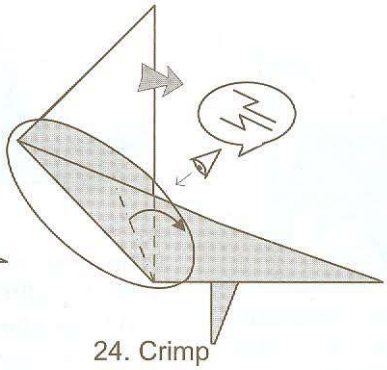
21. Déplier vers la gauche.



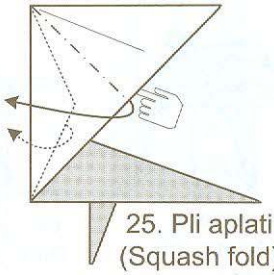
22. Retourner l'épaisseur.



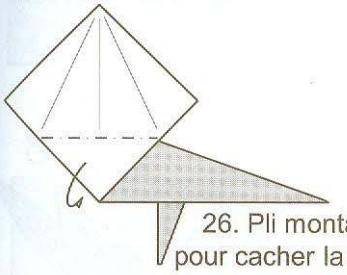
23. Prochaine étape: Vue en coupe de la partie entourée.



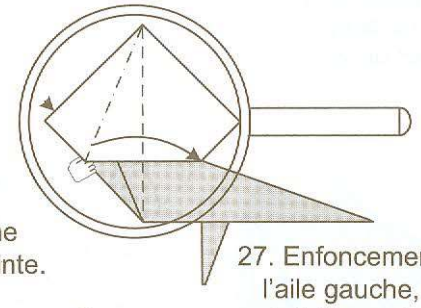
24. Crimp



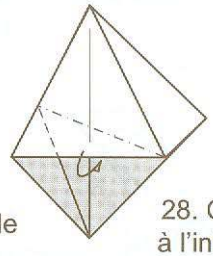
25. Pli aplati (Squash fold)



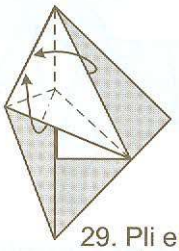
26. Pli montagne pour cacher la pointe.



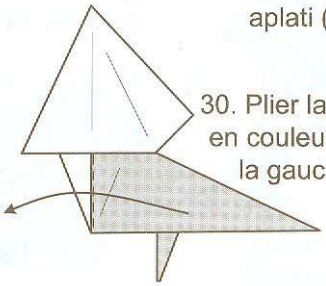
27. Enfoncement de l'aile gauche, pli aplati (Squash fold)



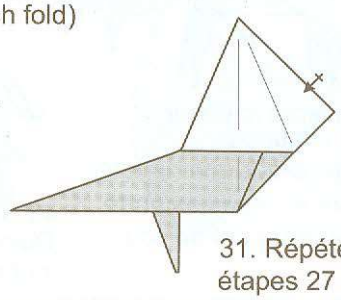
28. Cacher à l'intérieur.



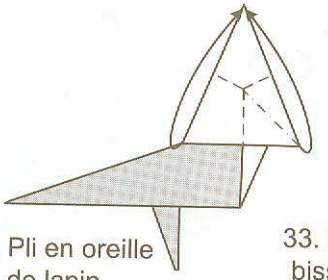
29. Pli en oreille de lapin.



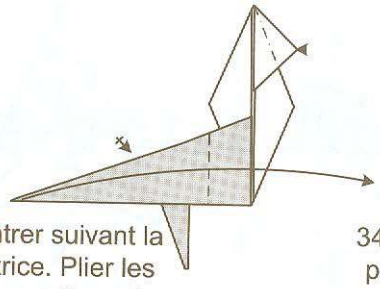
30. Plier la partie en couleur vers la gauche.



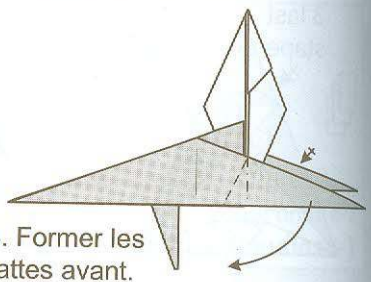
31. Répéter les étapes 27 à 29.



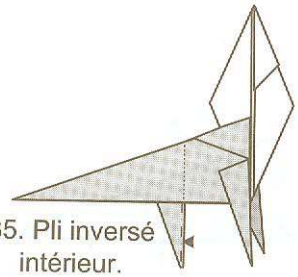
32. Pli en oreille de lapin.



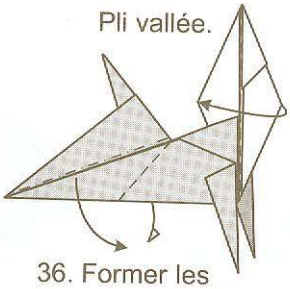
33. Rentrer suivant la bissectrice. Plier les pattes vers l'avant.



34. Former les pattes avant.

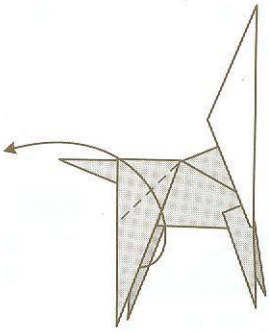


35. Pli inversé intérieur.

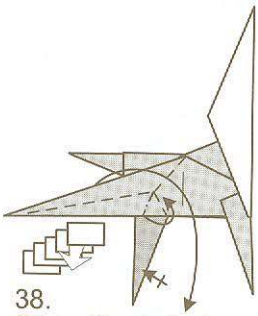


Pli vallée.

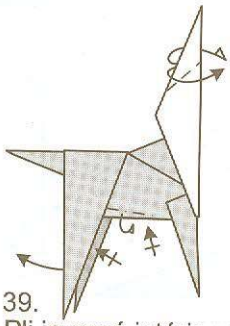
36. Former les pattes arrière.



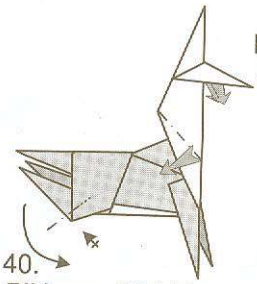
37. Pli vallée pour les pattes arrière.



38.
Pli oreille de lapin pour l'intérieur des pattes arrière.
Répéter les étapes 37-38 sur l'autre patte.



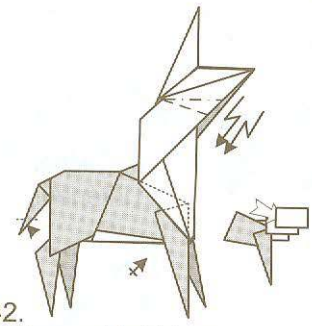
39.
Pli inversé intérieur pour les pattes arrière.
Pli montagne pour la couche suppérieure de papier du ventre.



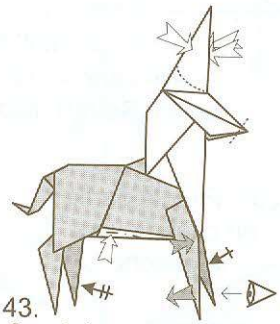
Pli inversé extérieur.

40.
Pli inversé intérieur pour les pattes arrière.
Sortir des épaisseurs de la tête, ouvrir le cou.

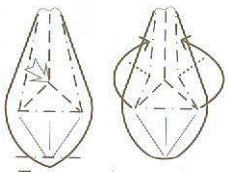
41.
Pli inversé intérieur pour la queue.
Pli zig-zag entre les épaisseurs du cou.



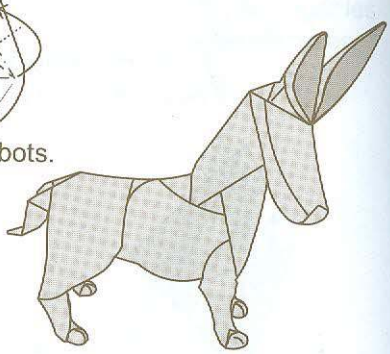
42.
Pli inversé intérieur pour la queue.
Crimp pour former la tête.
Passer les épaules entre les épaisseurs du cou.



43.
Ouvrir les oreilles.
Former les sabots.



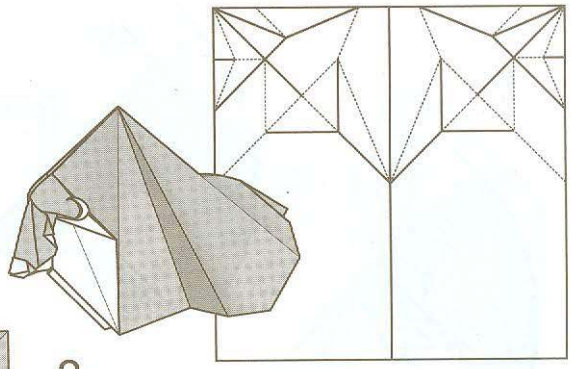
Former les sabots.

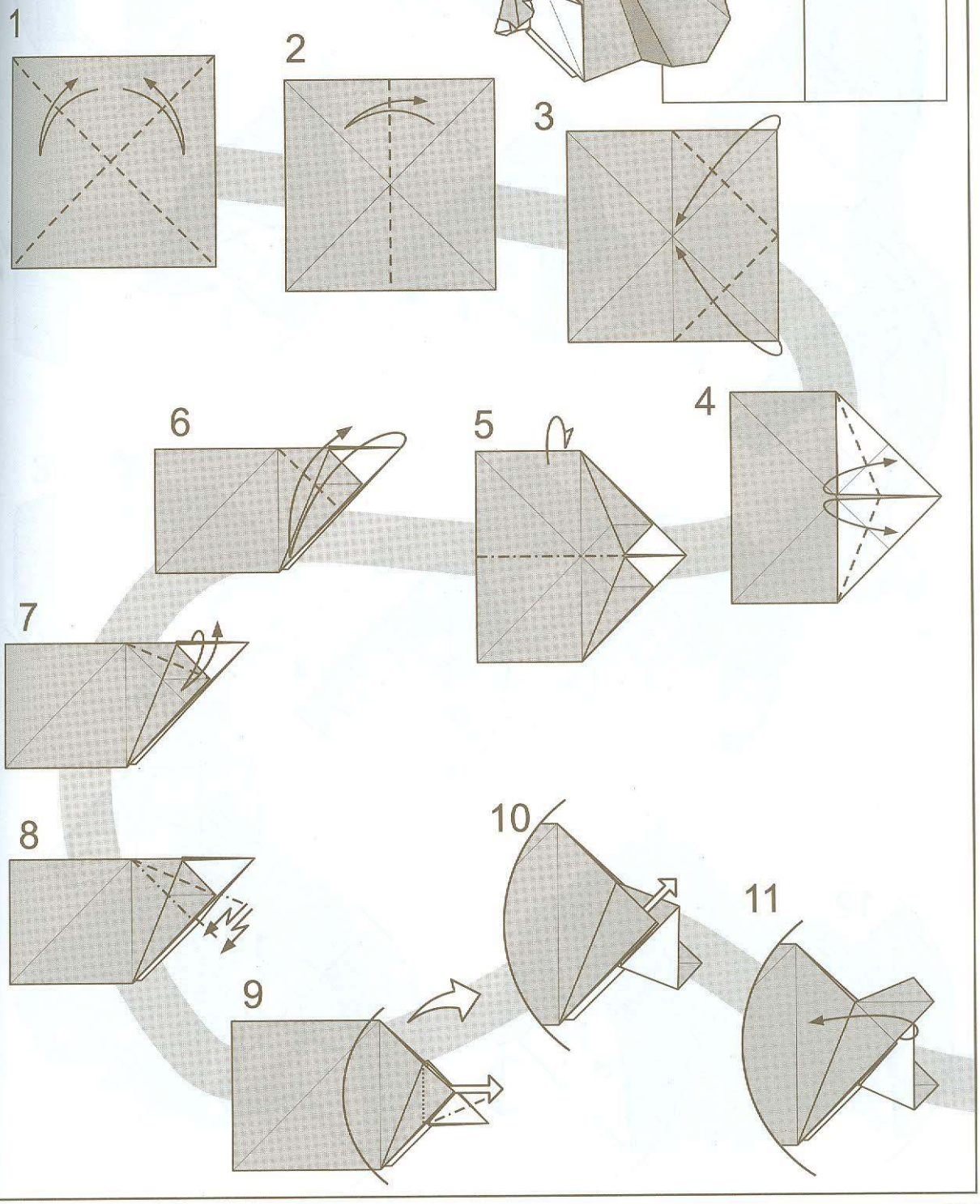


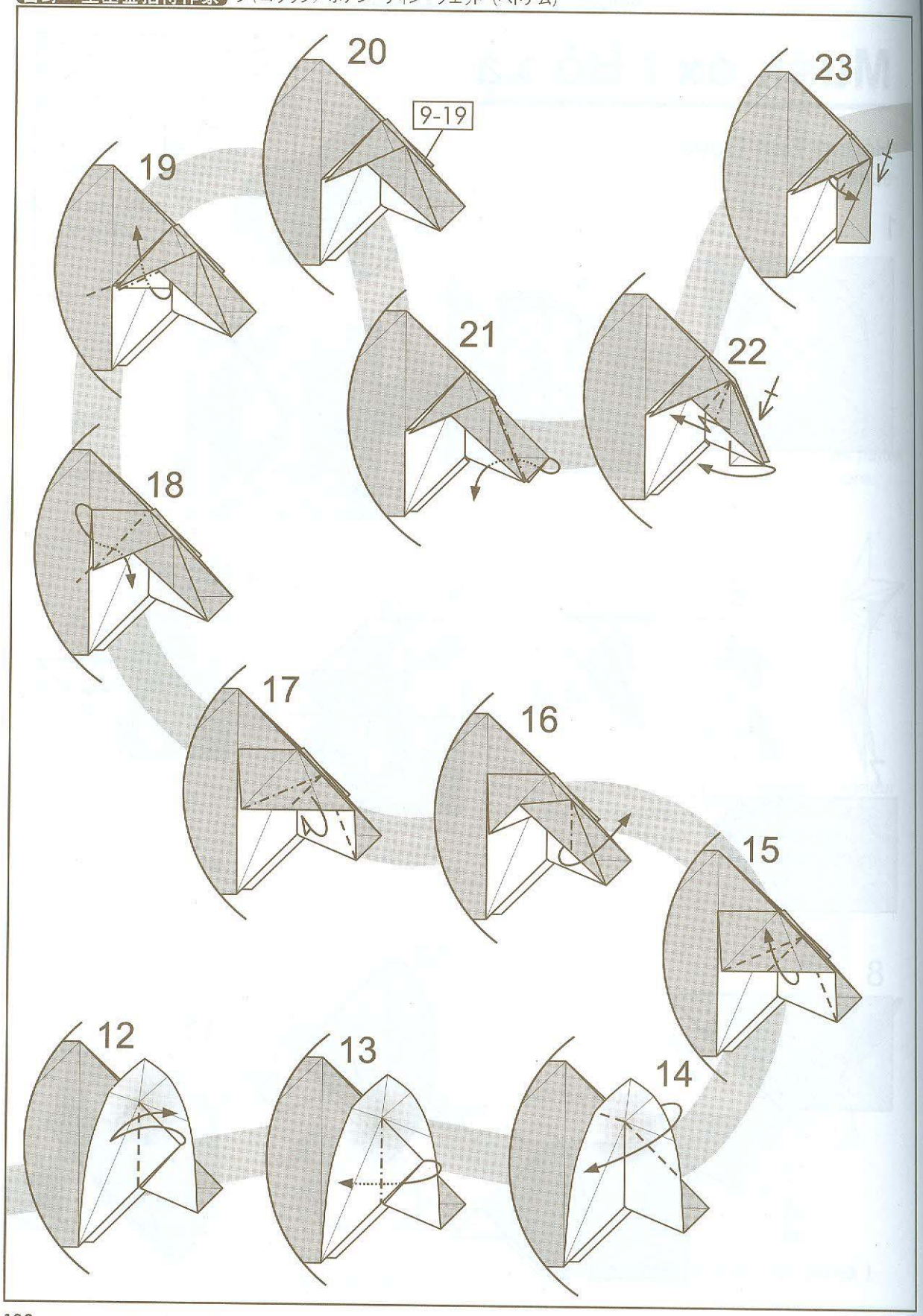
Le petit âne est terminé !

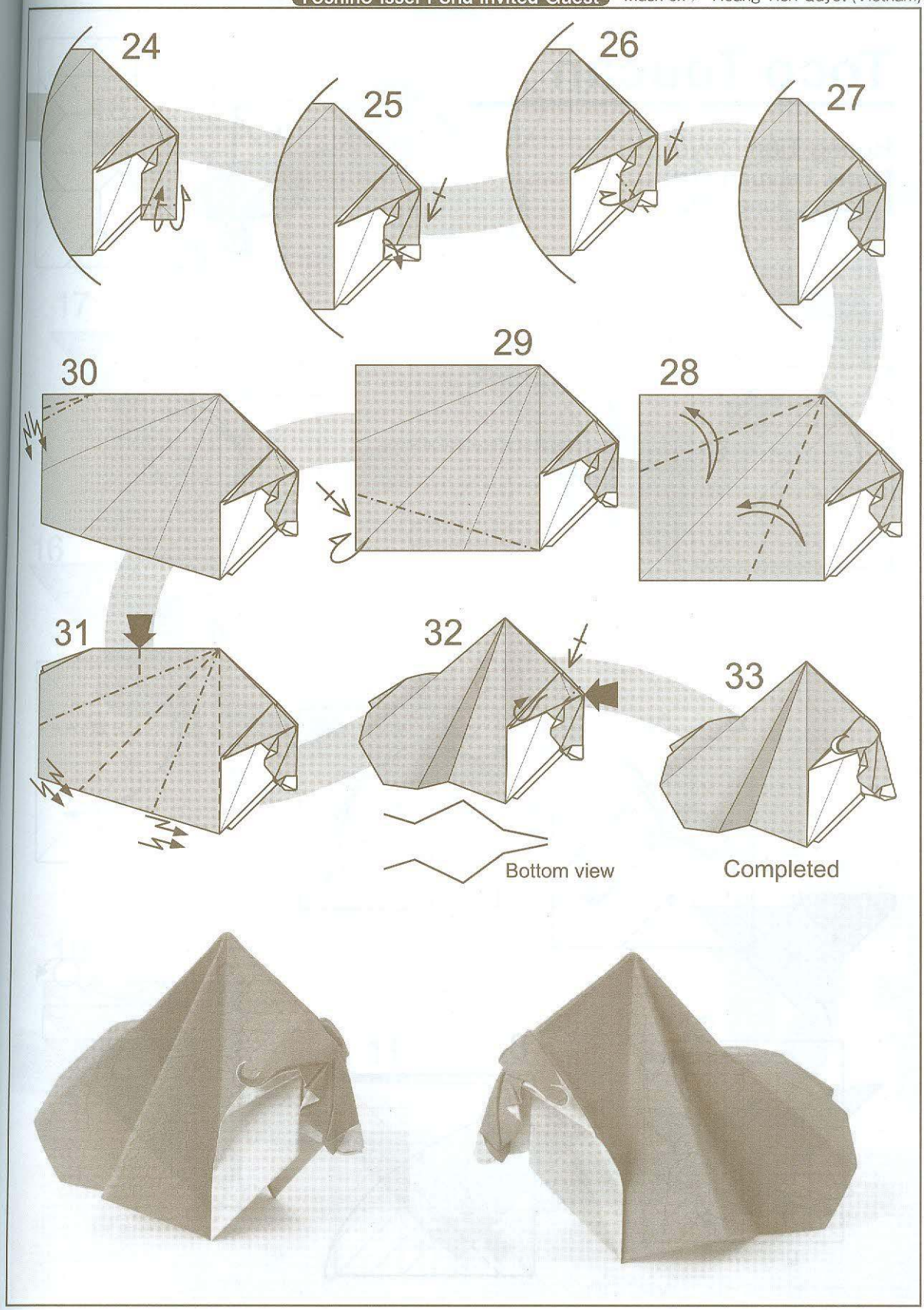
Musk ox / Bò xạ

Hoàng Tiến Quyết
June 2012



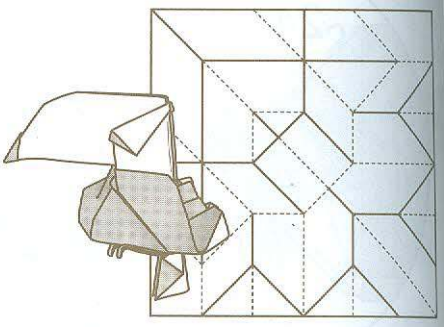


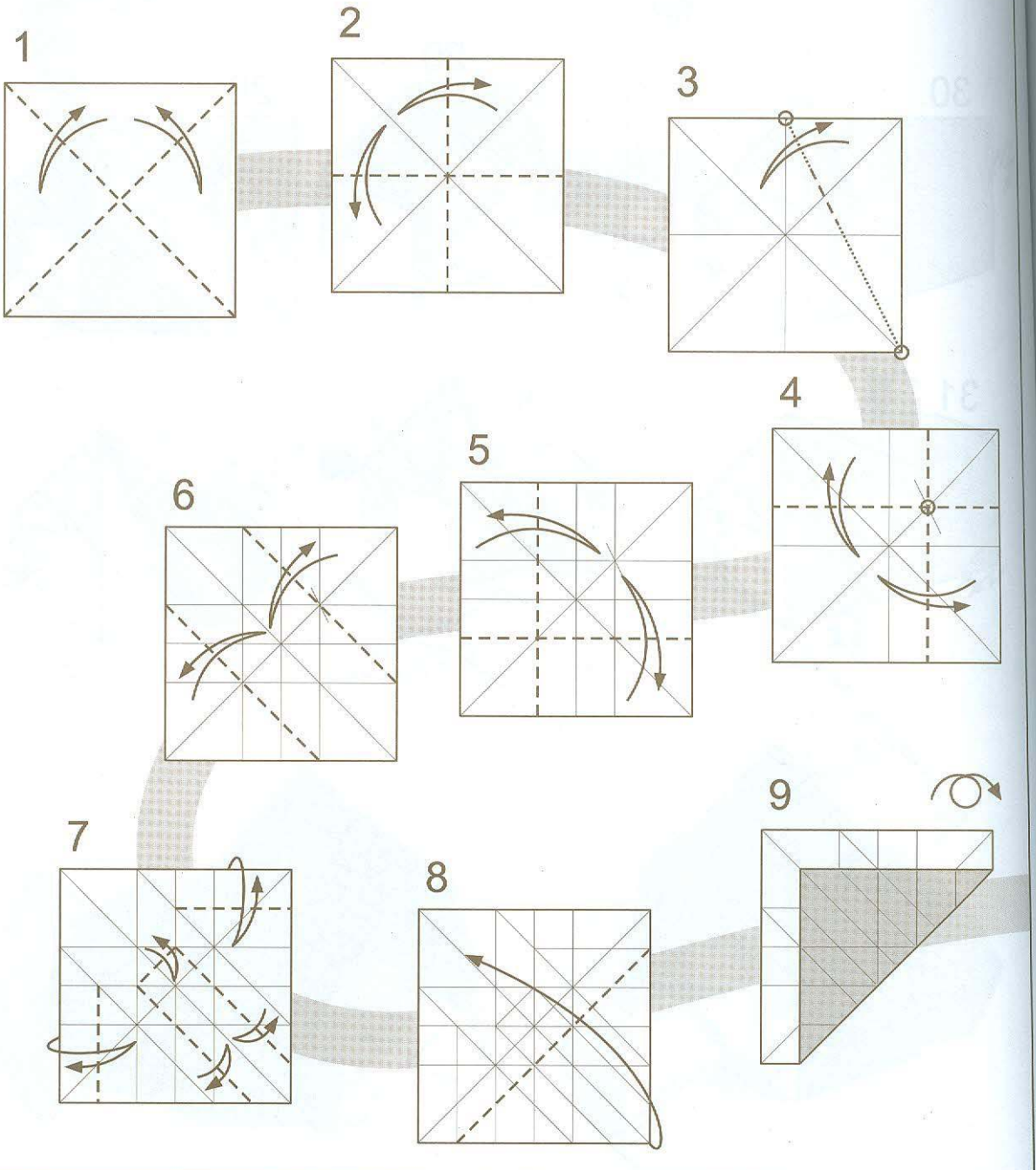

20
9-19
23
19
21
22
18
17
16
15
12
13
14

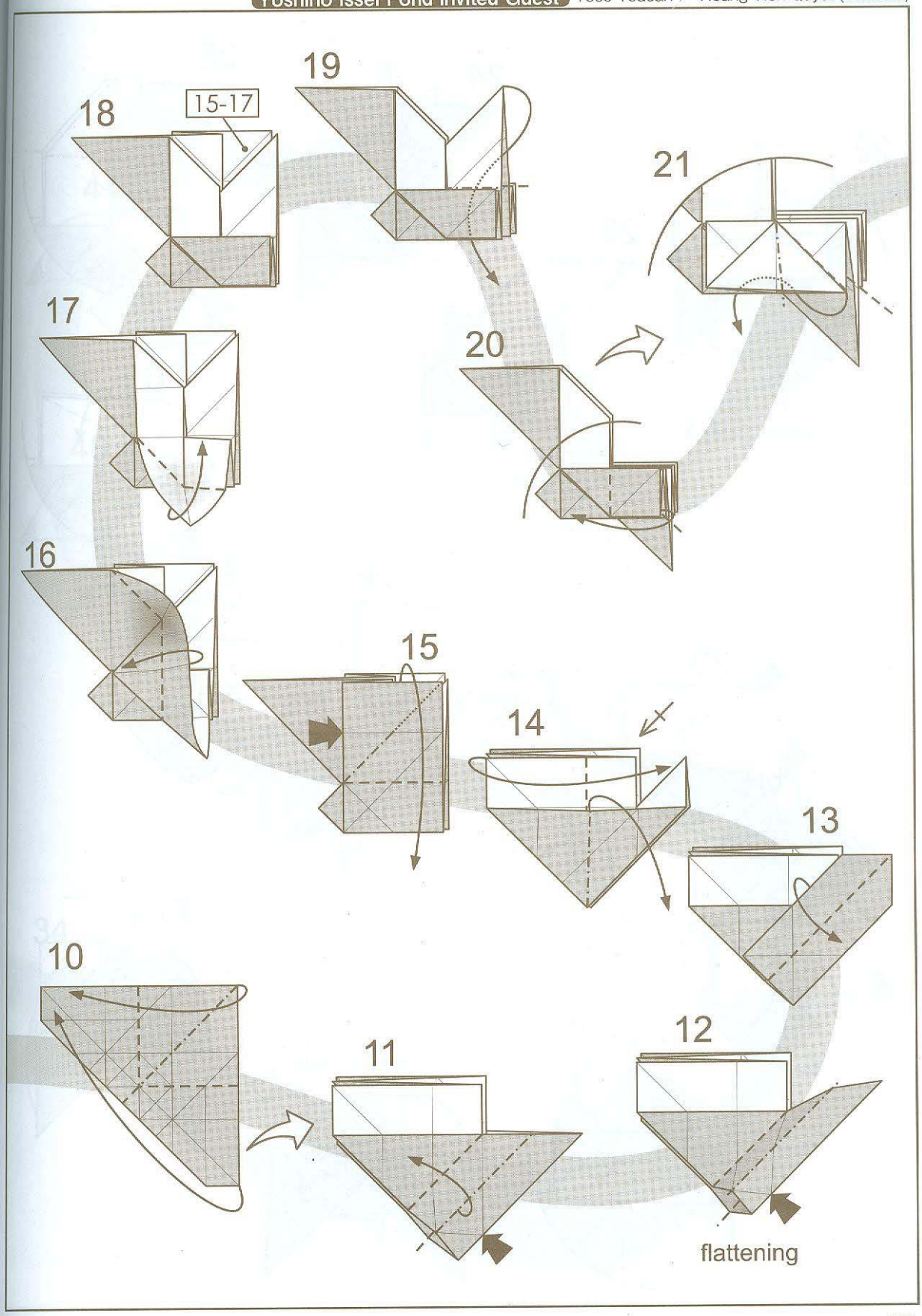

24
25
26
27
29
30
28
31
32
33
Bottom view
Completed

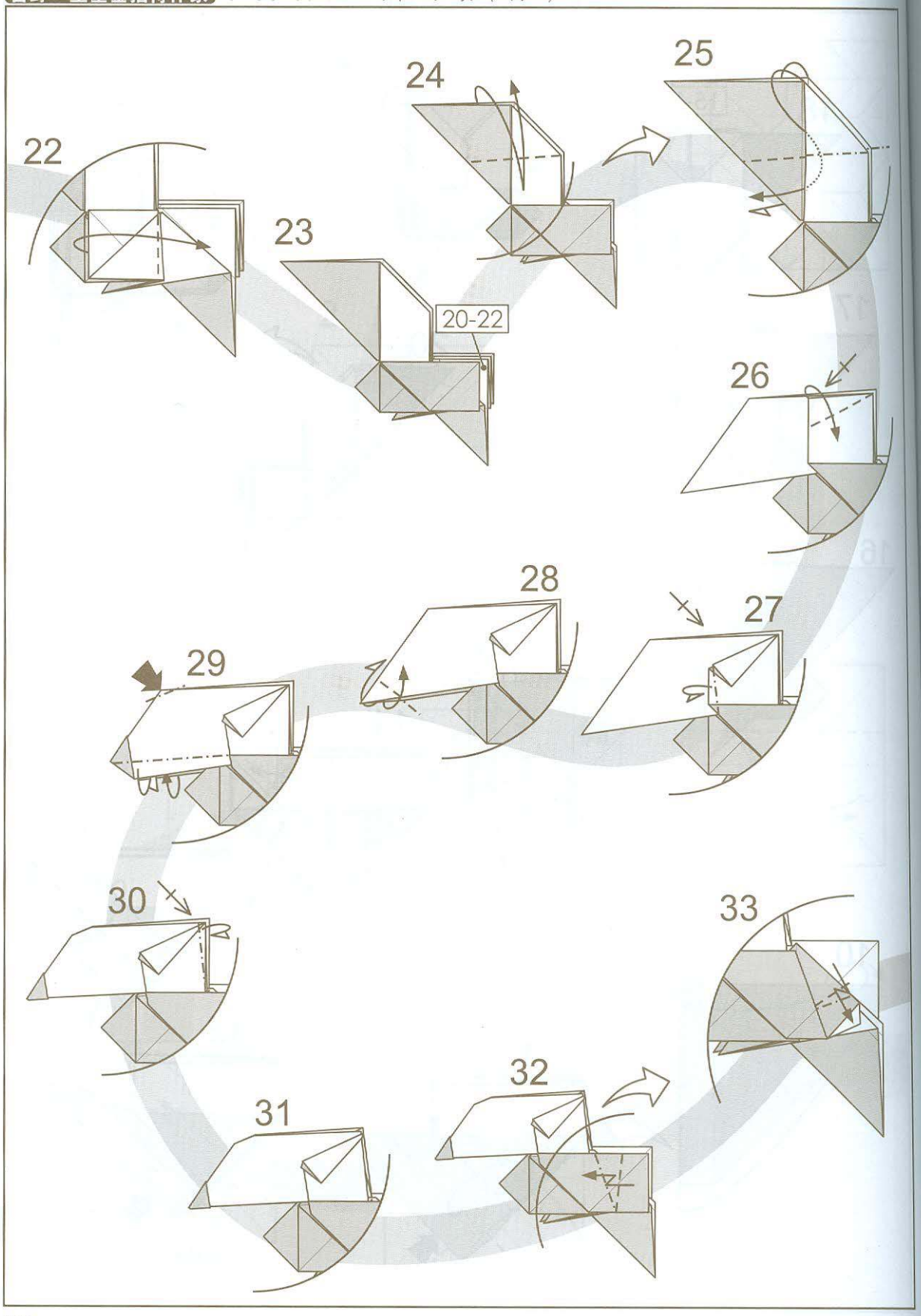
Toco Toucan

Hoàng Tiến Quyết
Model: February 2012
Diagram: June 2012






18
15-17
19
21
17
20
16
15
14
13
10
11
12
flattening


22
23
20-22
24
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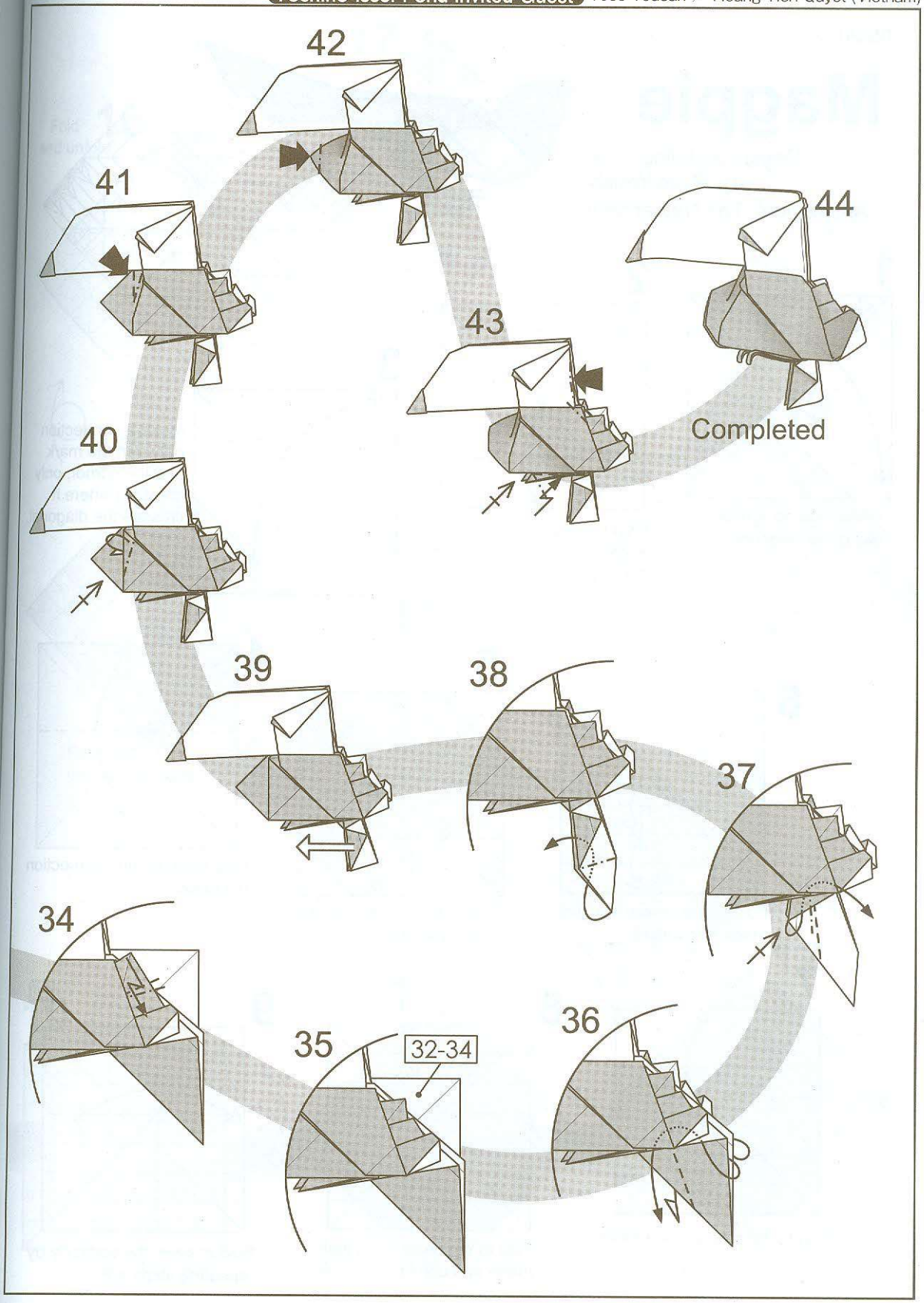
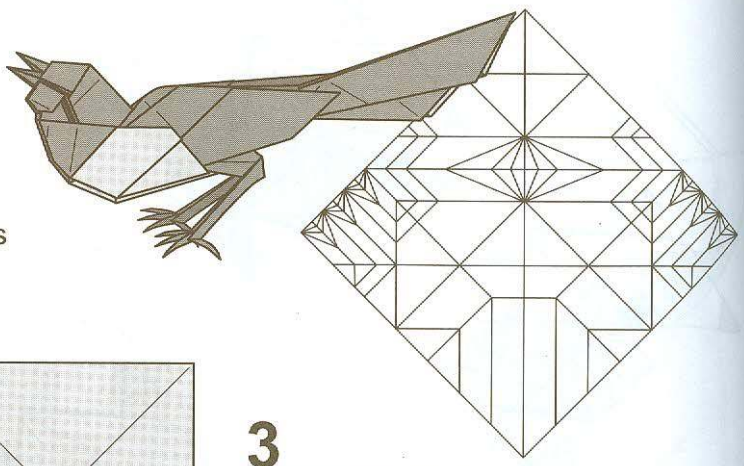
32
33


42
41
44
43
Completed
40
39
38
37
34
35
32-34
36

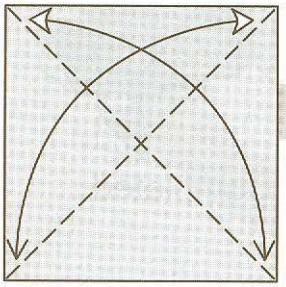
05/2012

Magpie

Design and diagrams
by Ryan Welsh
Amsterdam, The Netherlands

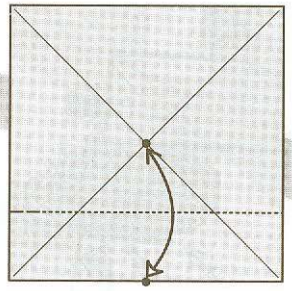


1



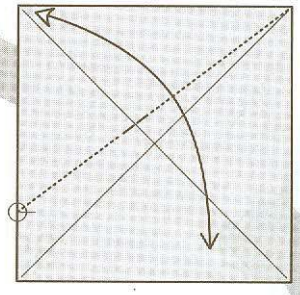
White side up. Crease along the diagonals.

2



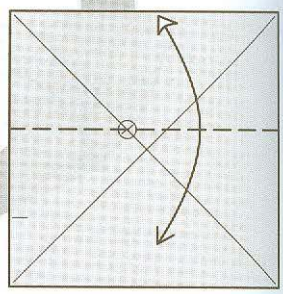
Fold the lower edge to the center and unfold, marking 1/4 of the edge.

3



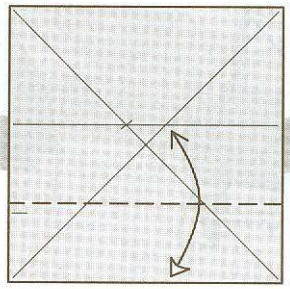
Make a connection between the mark and the corner, only creasing where it crosses the diagonal.

4



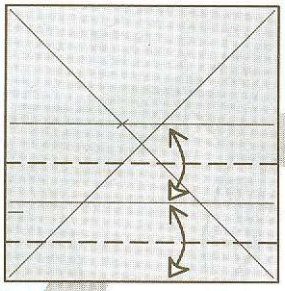
Fold through the intersection of creases.

5



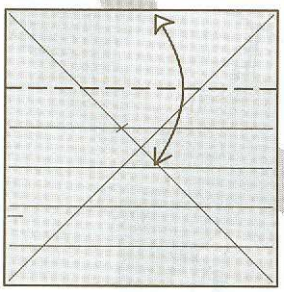
Fold to the crease you just made and unfold.

6



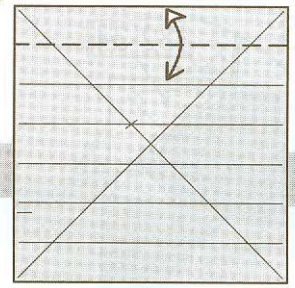
Fold to the crease you just made and unfold.

7



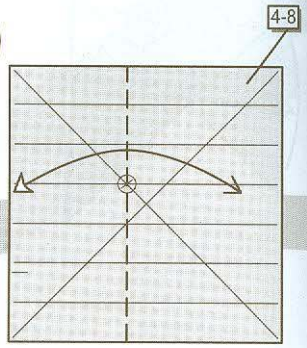
Fold to the crease and unfold.

8

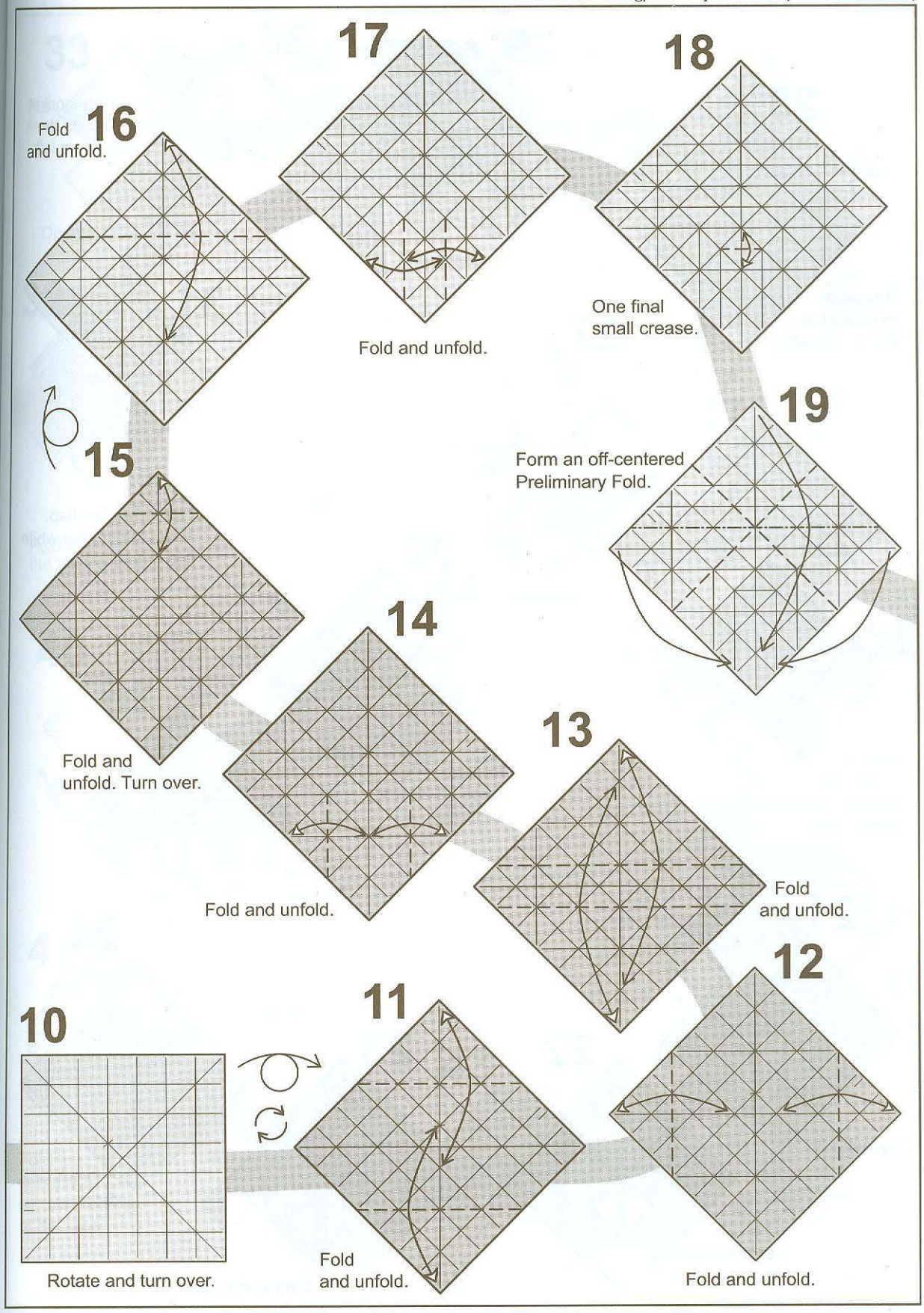


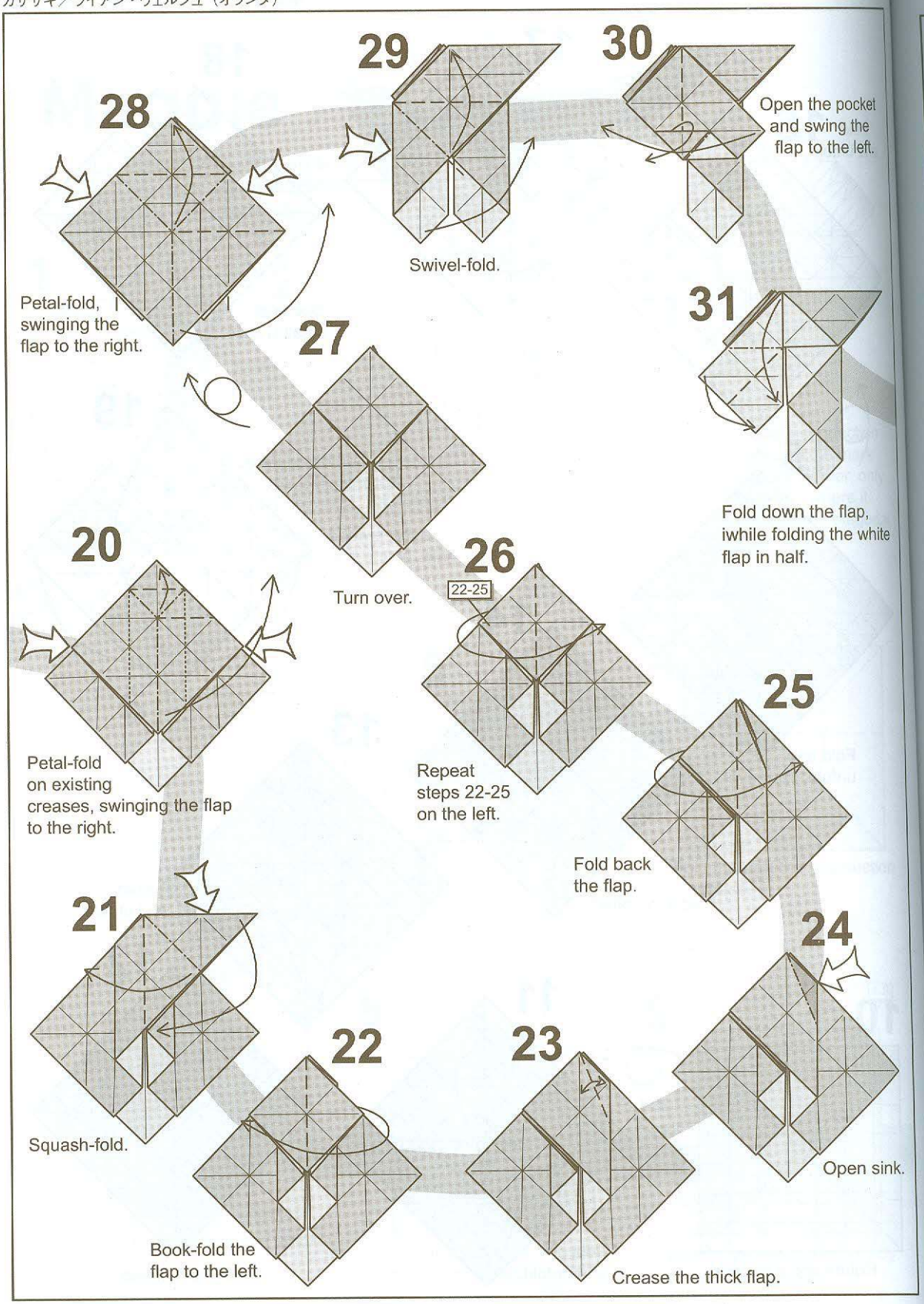
Fold to the crease you just made and unfold.

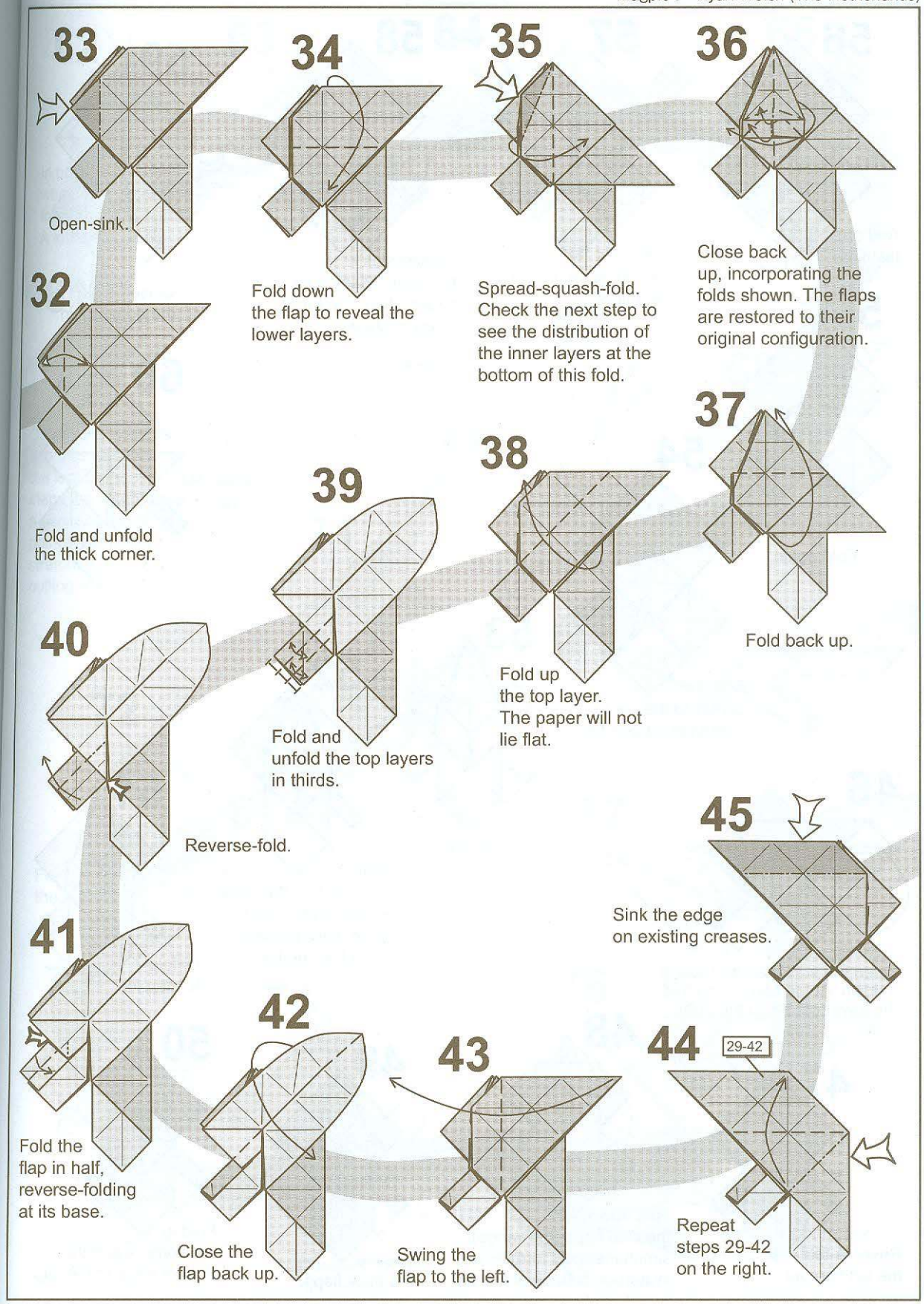
9

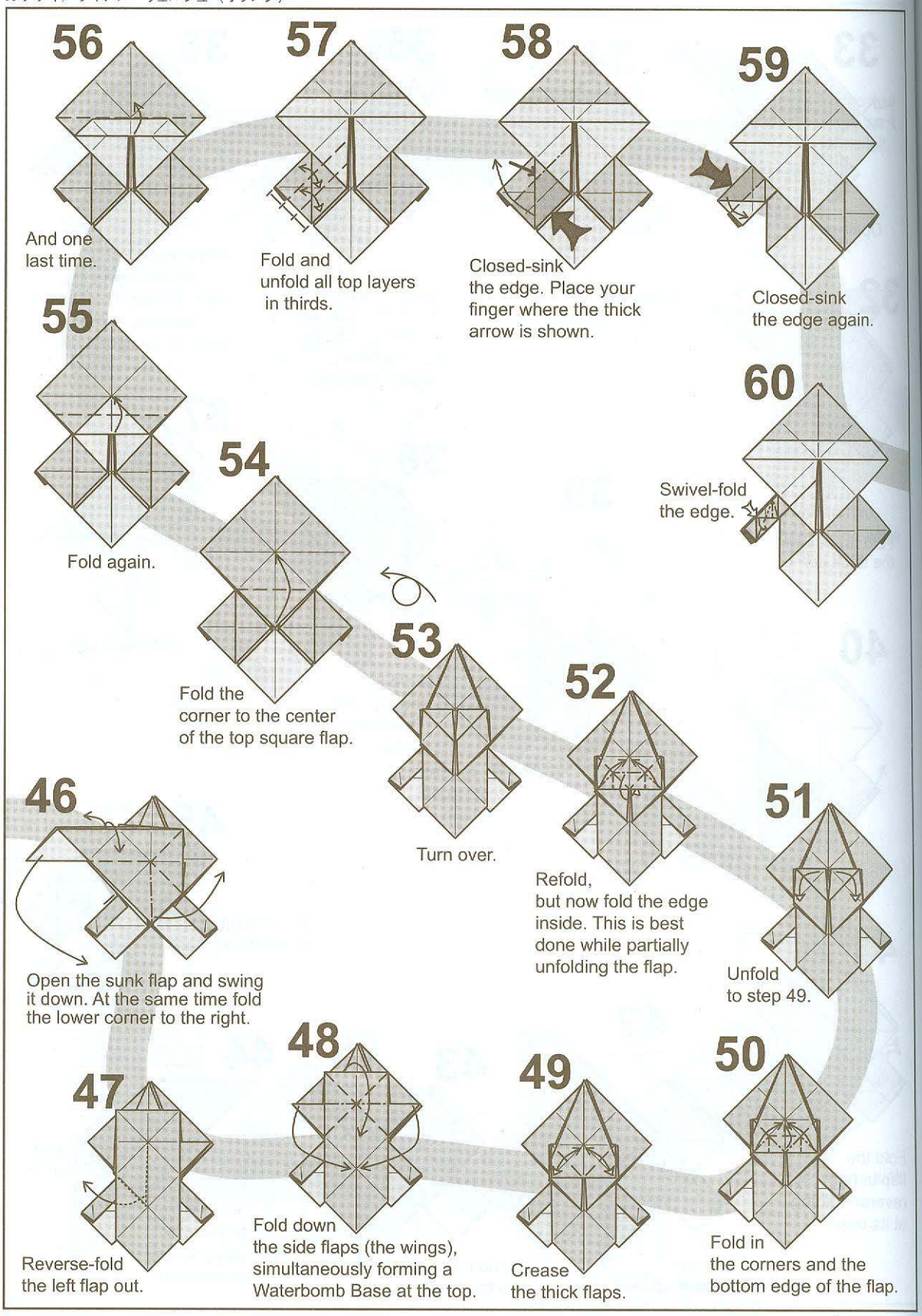


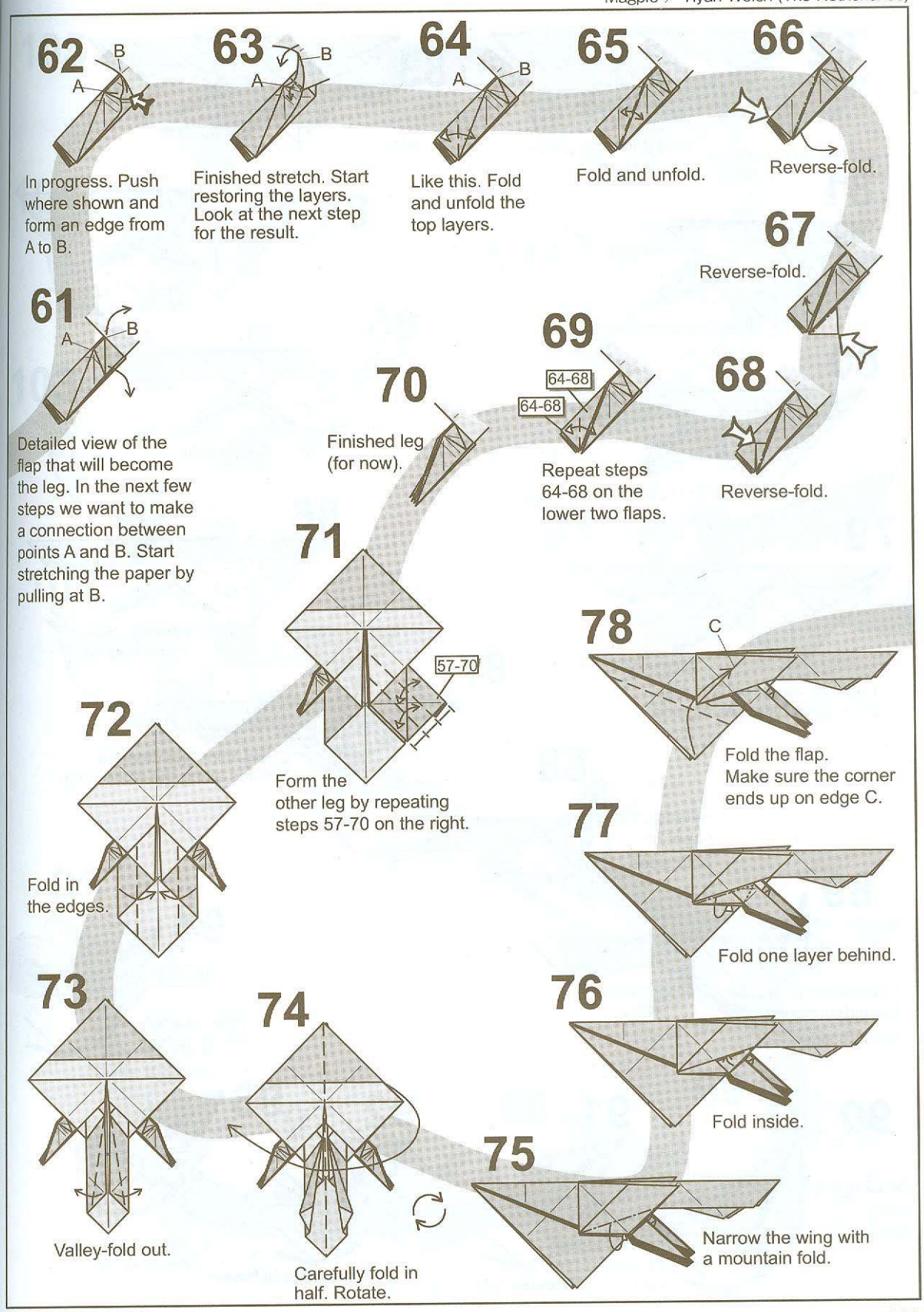
Fold in sevenths vertically by repeating steps 4-8.

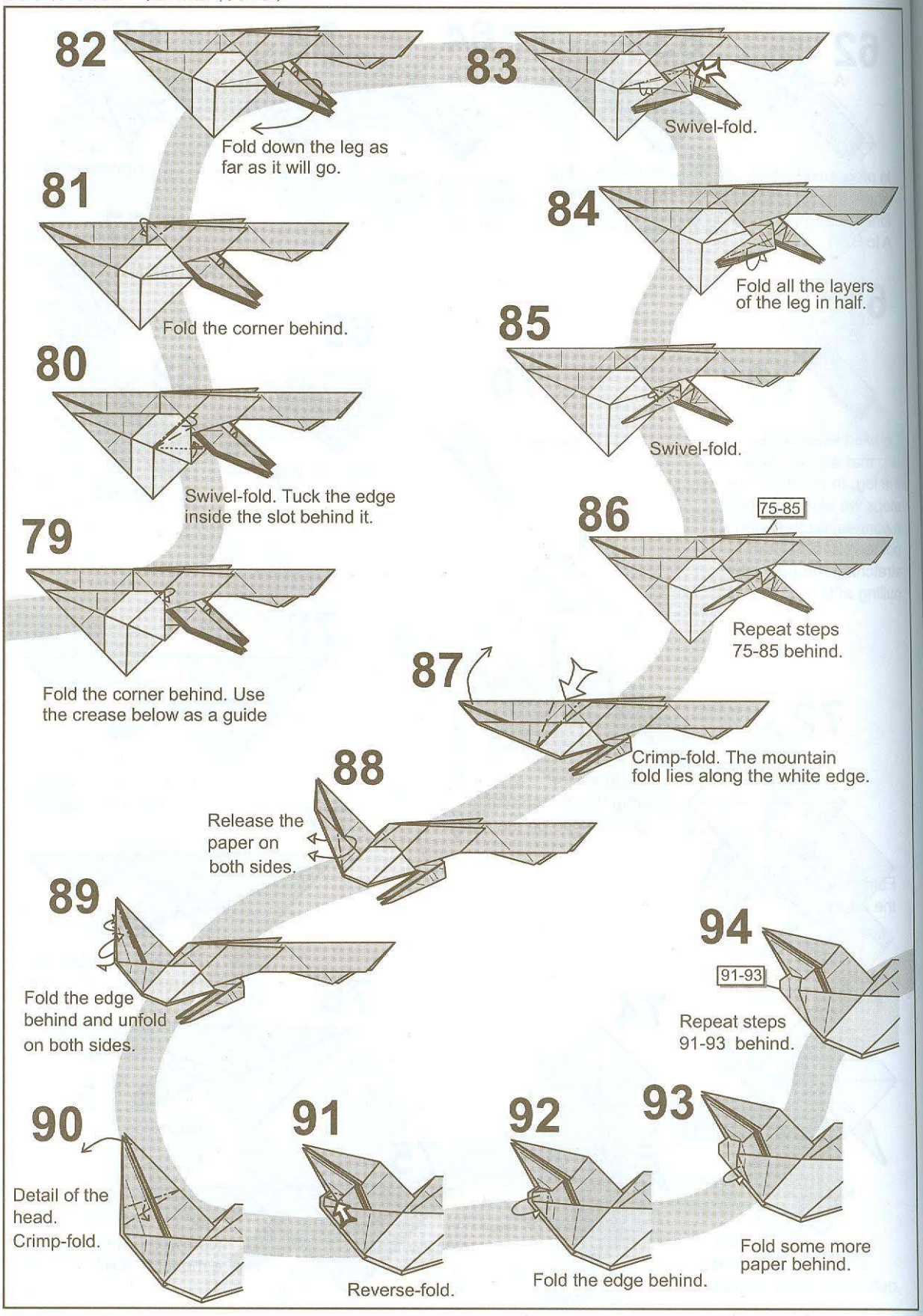

17
18
Fold
and unfold.
16
Fold and unfold.
One final
small crease.
19
15
Form an off-centered
Preliminary Fold.
14
Fold and
unfold. Turn over.
13
Fold and unfold.
Fold
and unfold.
12
10
11
Rotate and turn over.
Fold
and unfold.
Fold and unfold.

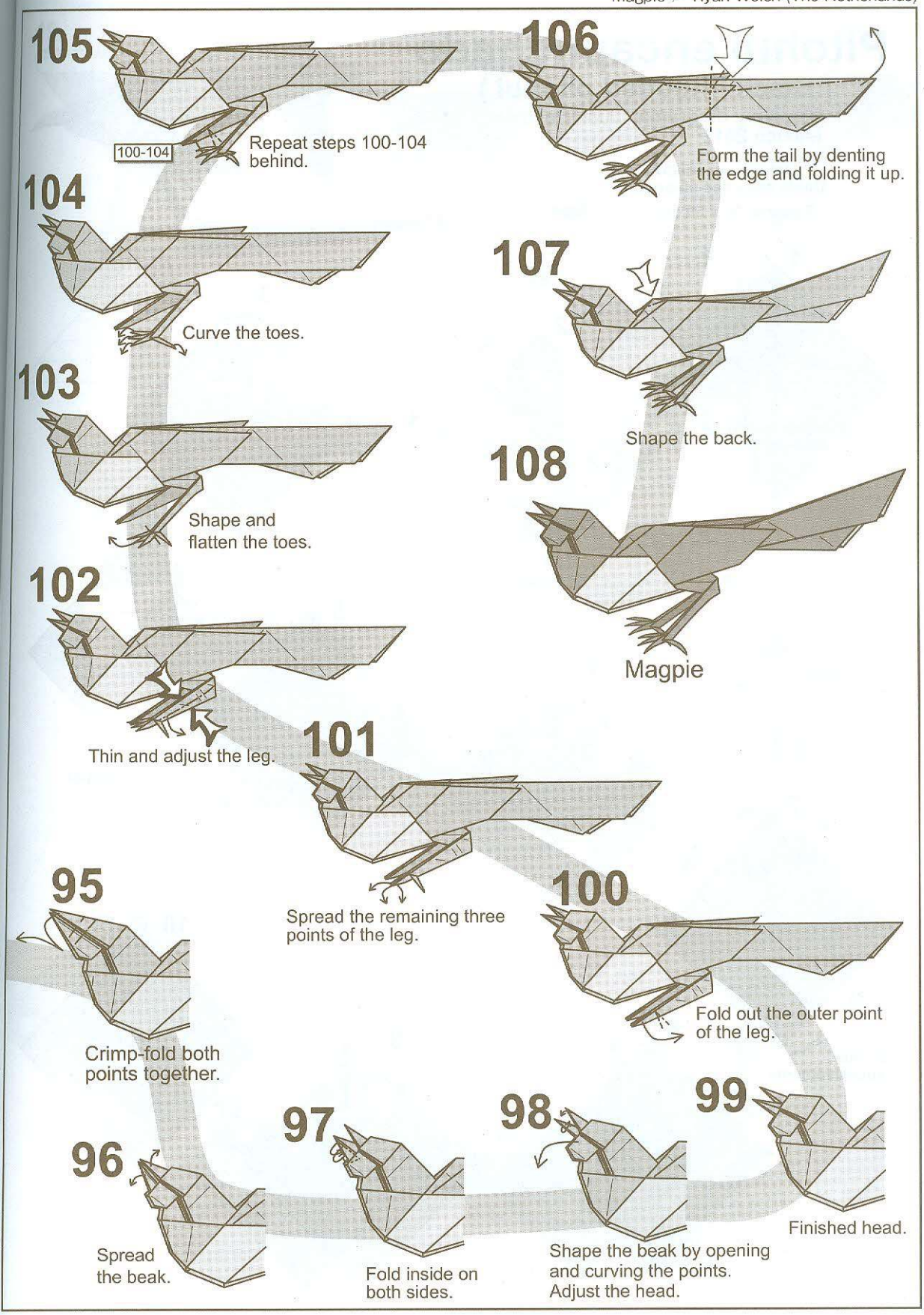

29
30
28
Open the pocket and swing the flap to the left.
Swivel-fold.
Petal-fold, swinging the flap to the right.
31
27
Fold down the flap, iwhile folding the white flap in half.
20
26
22-25
Turn over.
Petal-fold on existing creases, swinging the flap to the right.
Repeat steps 22-25 on the left.
25
Fold back the flap.
21
24
22
23
Squash-fold.
Open sink.
Book-fold the flap to the left.
Crease the thick flap.


33
Open-sink.
34
Fold down the flap to reveal the lower layers.
35
Spread-squash-fold. Check the next step to see the distribution of the inner layers at the bottom of this fold.
36
Close back up, incorporating the folds shown. The flaps are restored to their original configuration.
32
Fold and unfold the thick corner.
37
Fold back up.
38
Fold up the top layer. The paper will not lie flat.
39
Fold and unfold the top layers in thirds.
40
Reverse-fold.
45
Sink the edge on existing creases.
41
Fold the flap in half, reverse-folding at its base.
42
Close the flap back up.
43
Swing the flap to the left.
44
29-42
Repeat steps 29-42 on the right.


56
And one last time.
57
Fold and unfold all top layers in thirds.
58
Closed-sink the edge. Place your finger where the thick arrow is shown.
59
Closed-sink the edge again.
60
Swivel-fold the edge.
55
Fold again.
54
Fold the corner to the center of the top square flap.
53
Turn over.
52
Refold, but now fold the edge inside. This is best done while partially unfolding the flap.
51
Unfold to step 49.
46
Open the sunk flap and swing it down. At the same time fold the lower corner to the right.
47
Reverse-fold the left flap out.
48
Fold down the side flaps (the wings), simultaneously forming a Waterbomb Base at the top.
49
Crease the thick flaps.
50
Fold in the corners and the bottom edge of the flap.


62
A
B
In progress. Push where shown and form an edge from A to B.
63
A
B
Finished stretch. Start restoring the layers. Look at the next step for the result.
64
A
B
Like this. Fold and unfold the top layers.
65
Fold and unfold.
66
Reverse-fold.
67
Reverse-fold.
68
Reverse-fold.
69
64-68
64-68
Repeat steps 64-68 on the lower two flaps.
70
Finished leg (for now).
61
A
B
Detailed view of the flap that will become the leg. In the next few steps we want to make a connection between points A and B. Start stretching the paper by pulling at B.
71
57-70
Form the other leg by repeating steps 57-70 on the right.
72
Fold in the edges.
73
Valley-fold out.
74
Carefully fold in half. Rotate.
75
Narrow the wing with a mountain fold.
76
Fold inside.
77
Fold one layer behind.
78
C
Fold the flap. Make sure the corner ends up on edge C.


82
Fold down the leg as far as it will go.
83
Swivel-fold.
81
Fold the corner behind.
84
Fold all the layers of the leg in half.
80
Swivel-fold. Tuck the edge inside the slot behind it.
85
Swivel-fold.
79
Fold the corner behind. Use the crease below as a guide
86
75-85
Repeat steps 75-85 behind.
87
Crimp-fold. The mountain fold lies along the white edge.
88
Release the paper on both sides.
89
Fold the edge behind and unfold on both sides.
94
91-93
Repeat steps 91-93 behind.
90
Detail of the head. Crimp-fold.
91
Reverse-fold.
92
Fold the edge behind.
93
Fold some more paper behind.


105
100-104
Repeat steps 100-104 behind.
106
Form the tail by denting the edge and folding it up.
104
Curve the toes.
107
Shape the back.
103
Shape and flatten the toes.
108
Magpie
102
Thin and adjust the leg.
101
Spread the remaining three points of the leg.
95
Crimp-fold both points together.
100
Fold out the outer point of the leg.
99
Finished head.
98
Shape the beak by opening and curving the points. Adjust the head.
97
Fold inside on both sides.
96
Spread the beak.

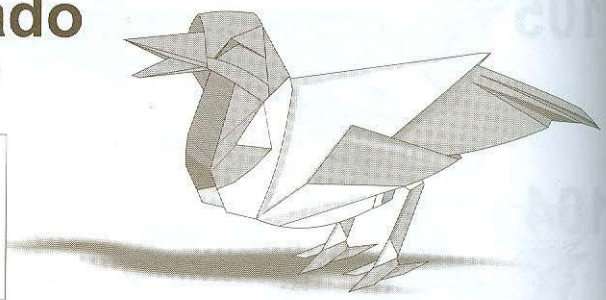
Pitohui encapuchado

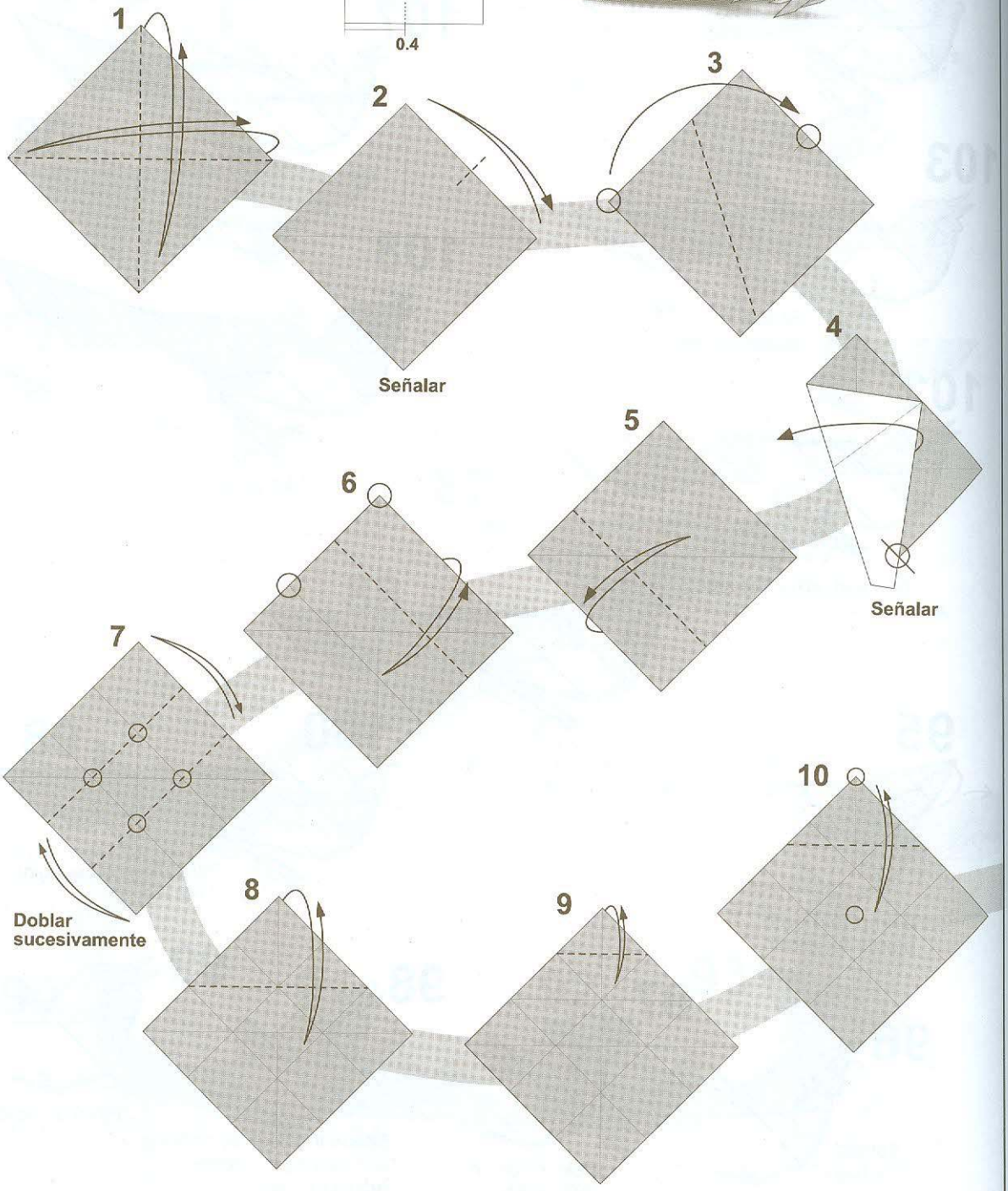
(Black - hooded pitohui)

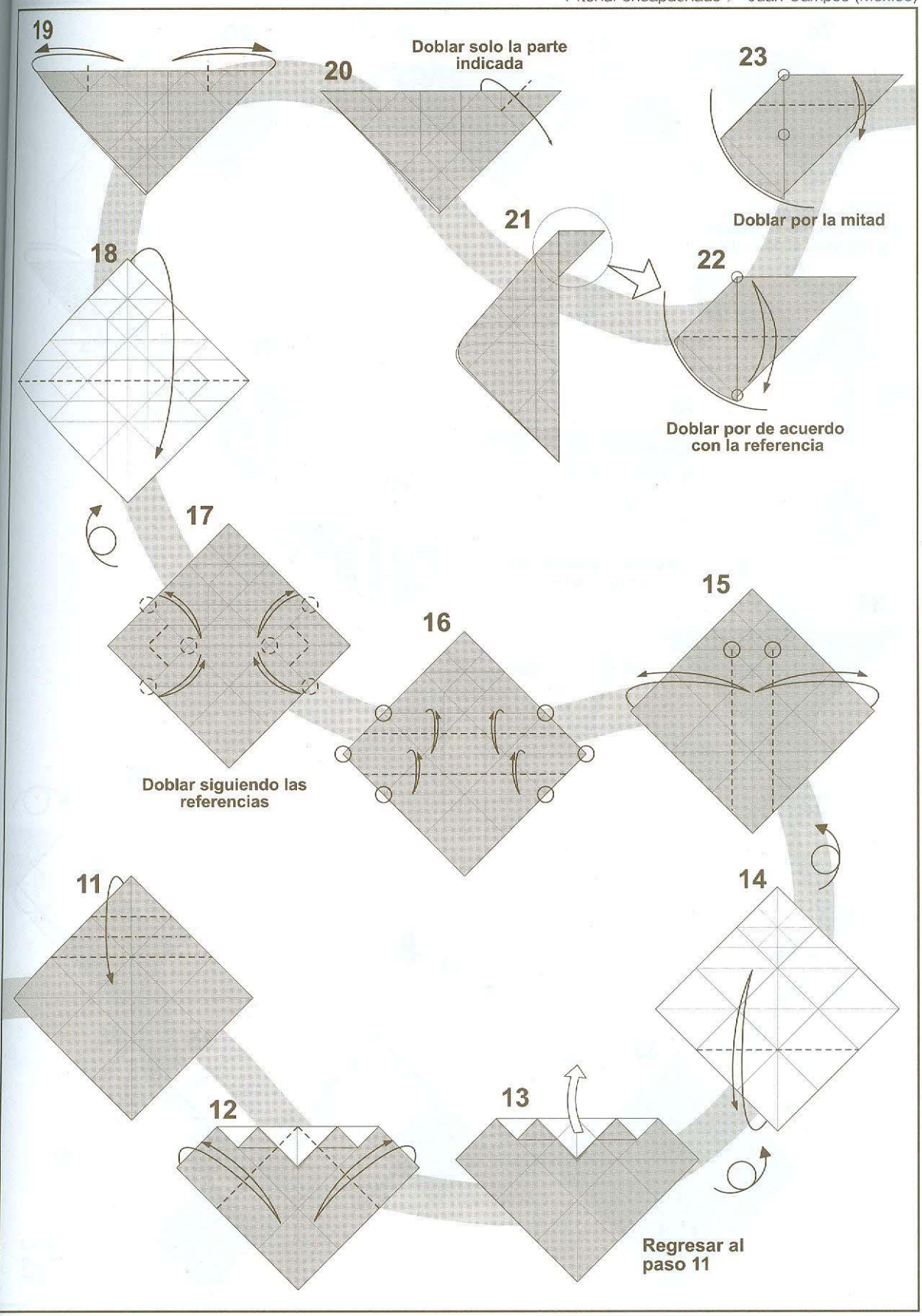
Modelo y diagrama: Juan Campos
México 2012

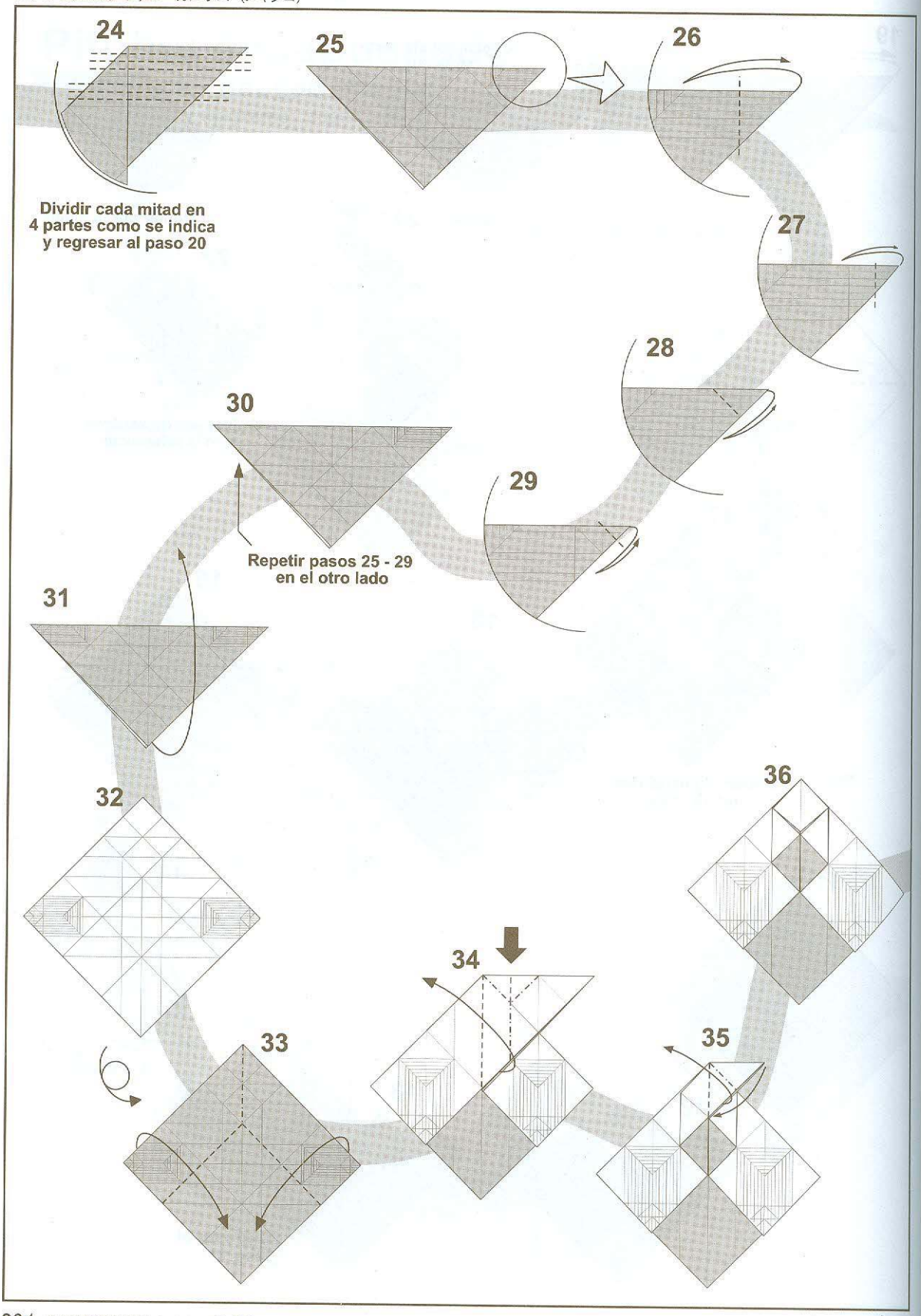
Papel recomendado:
Doble seda dos colores

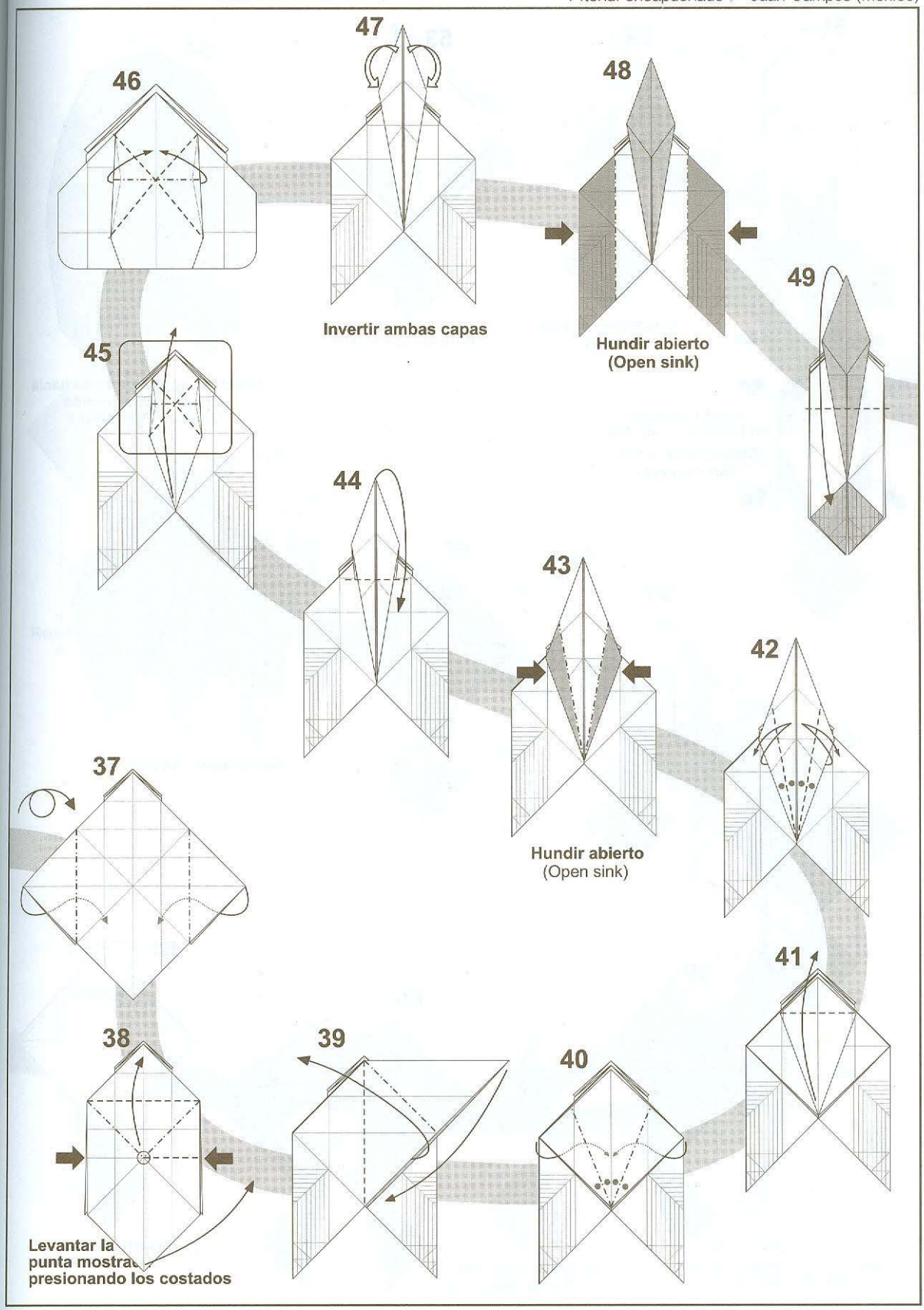
Tamaño: 50 x 50 cm

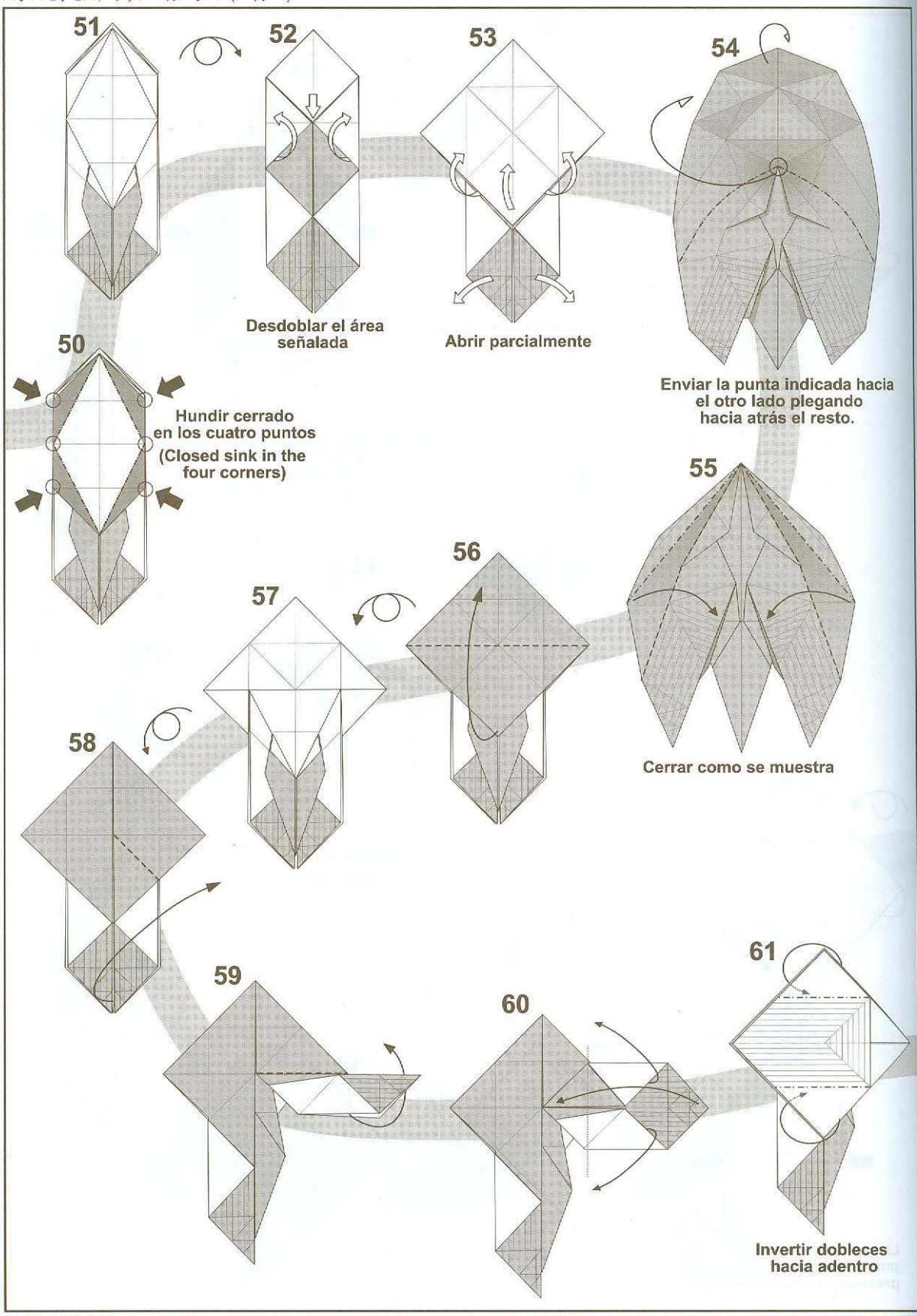


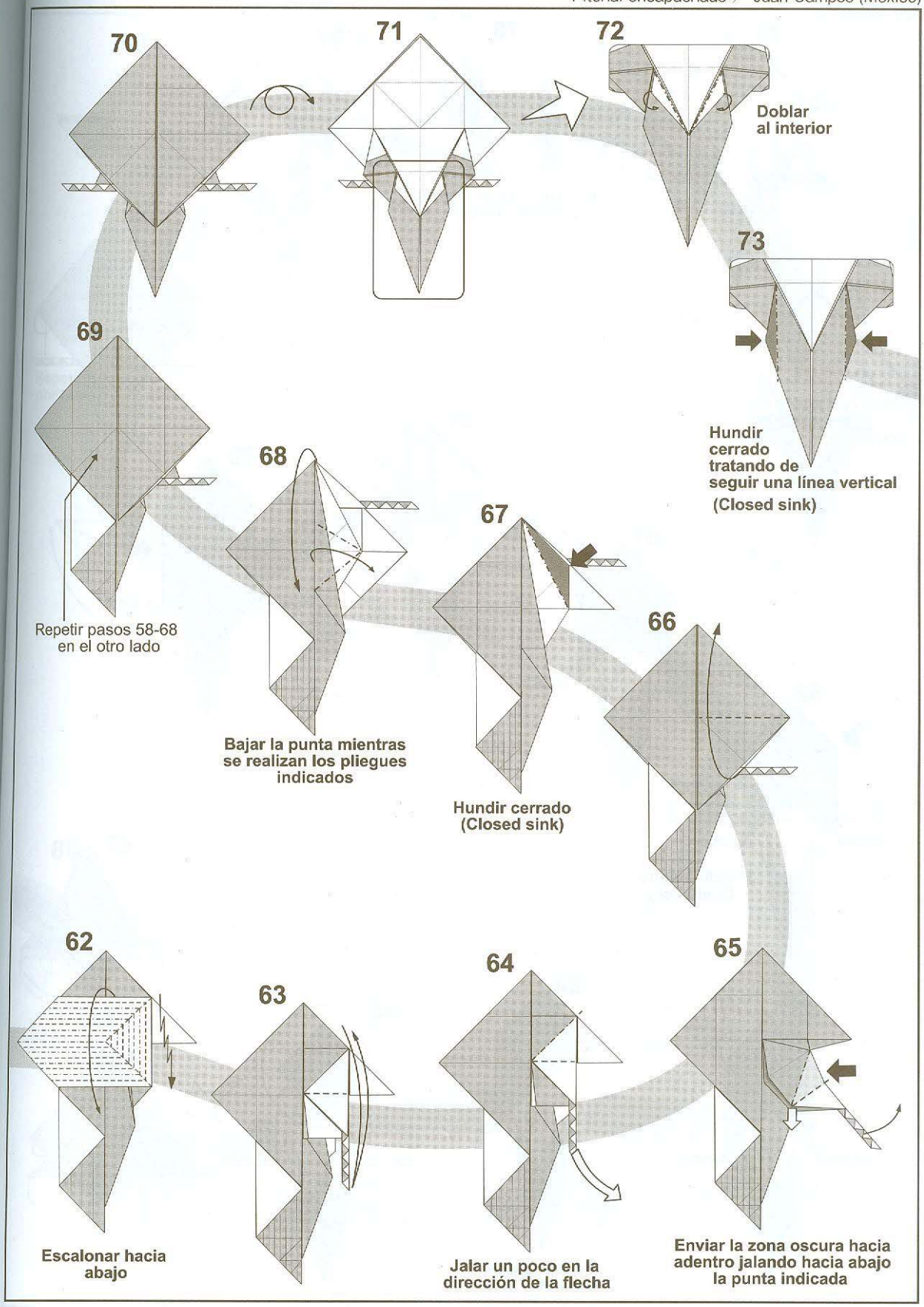


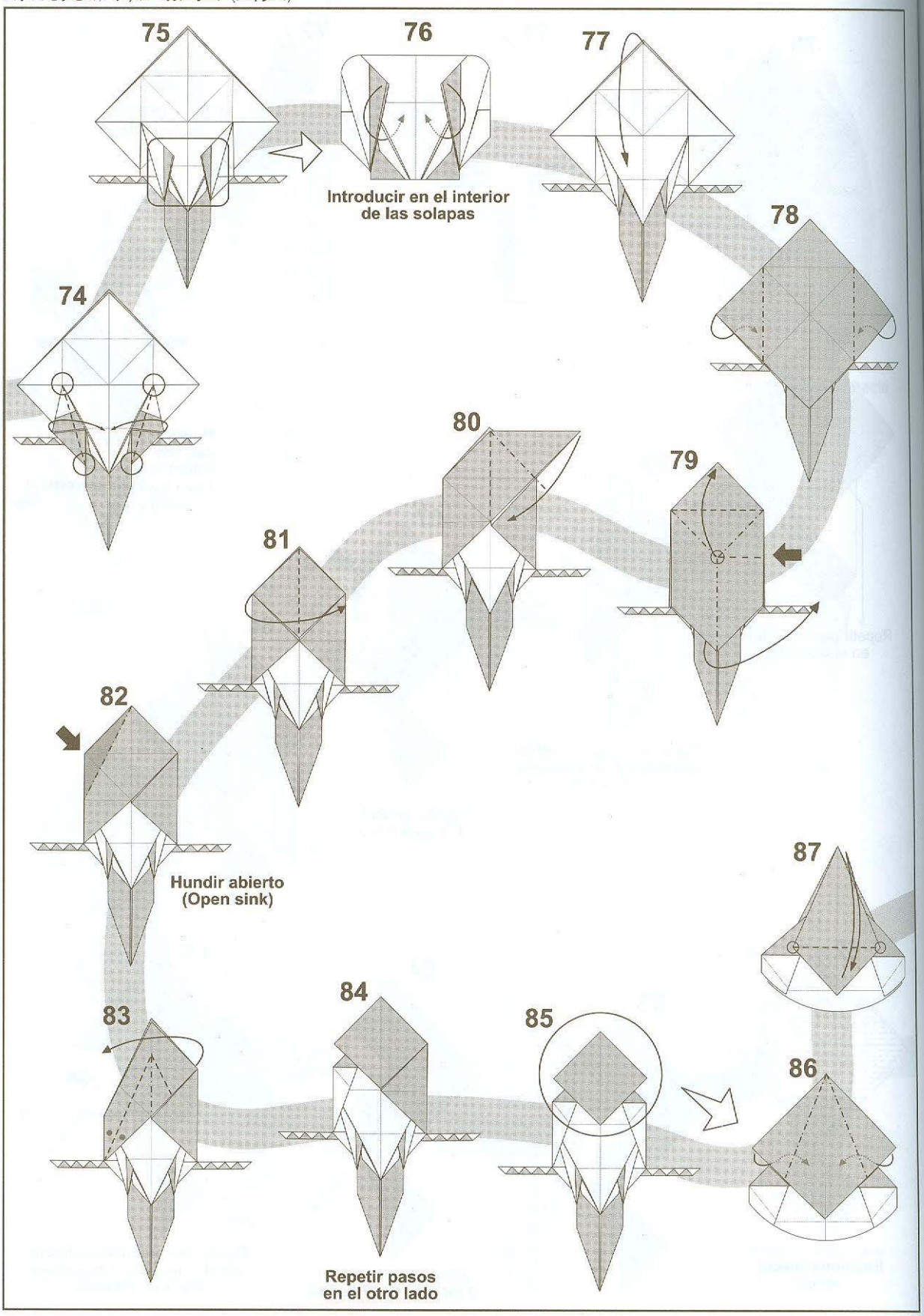

19
20
Doblar solo la parte indicada
23
Doblar por la mitad
21
22
Doblar por de acuerdo con la referencia
18
17
Doblar siguiendo las referencias
16
15
11
14
12
13
Regresar al paso 11

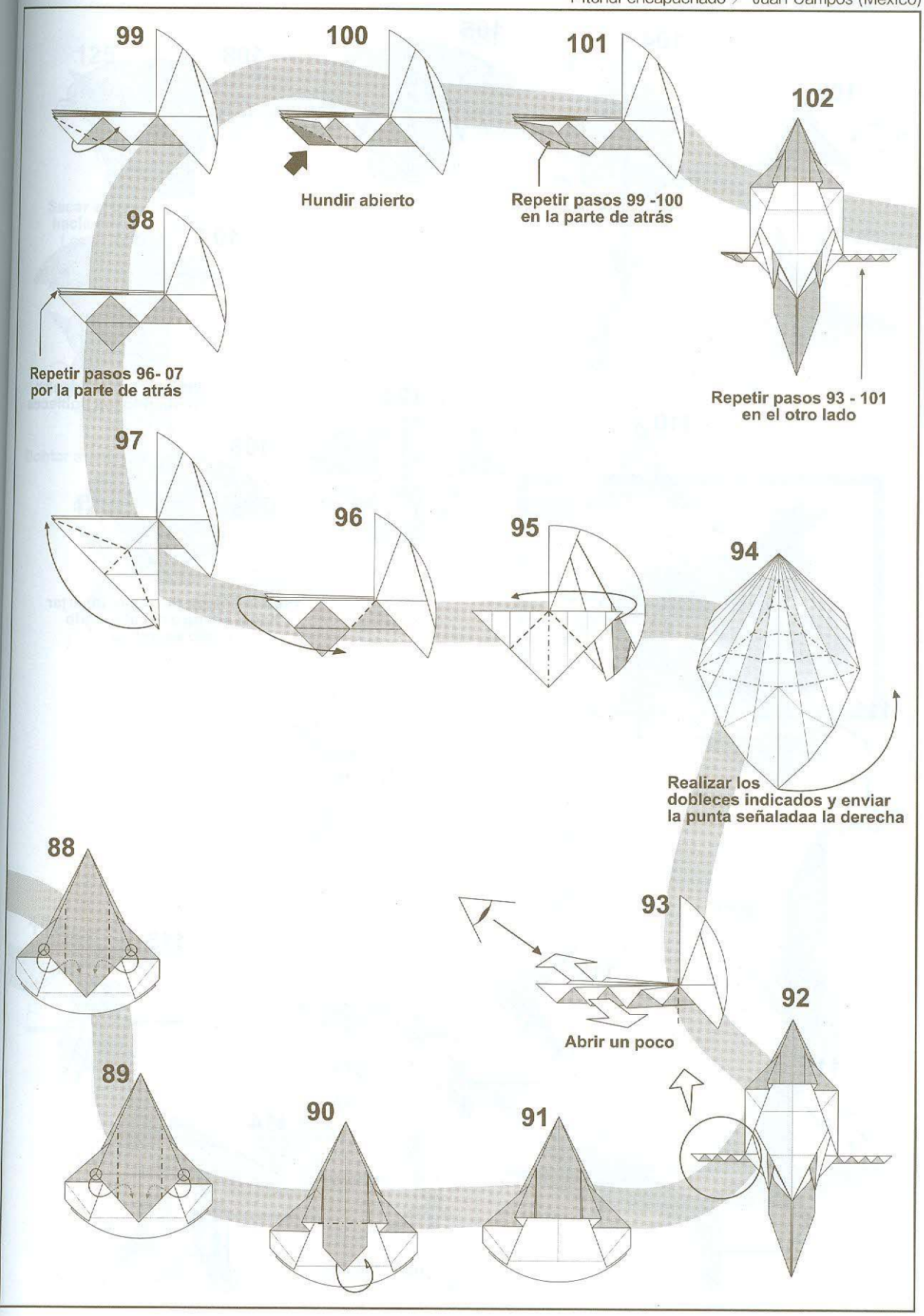

24
25
26
Dividir cada mitad en
4 partes como se indica
y regresar al paso 20
27
28
30
29
Repetir pasos 25 - 29
en el otro lado
31
32
36
34
33
35

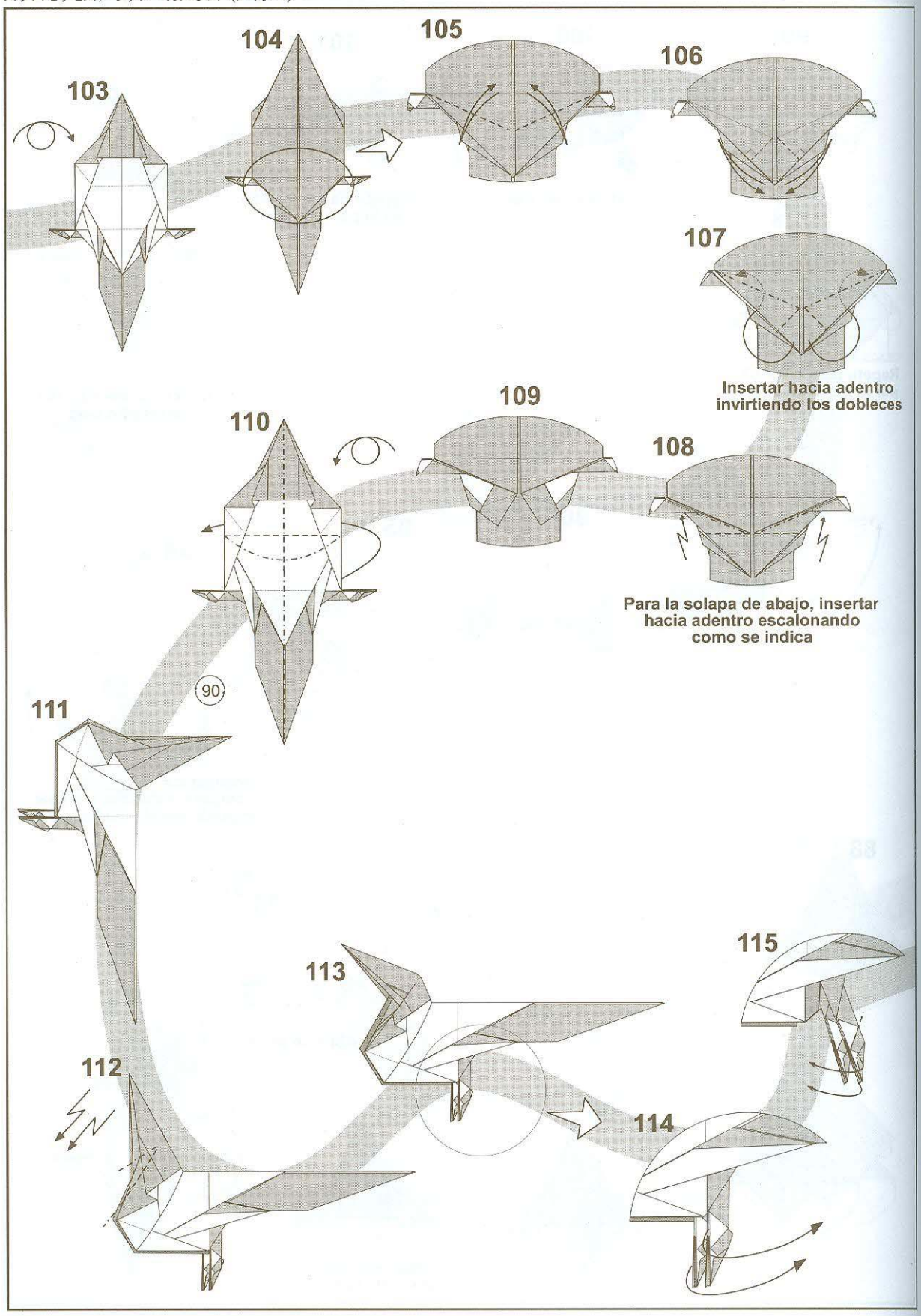

46
47
48
49
45
44
43
42
41
40
39
38
37
Invertir ambas capas
Hundir abierto
(Open sink)
Hundir abierto
(Open sink)
Levantar la
punta mostra
presionando los costados

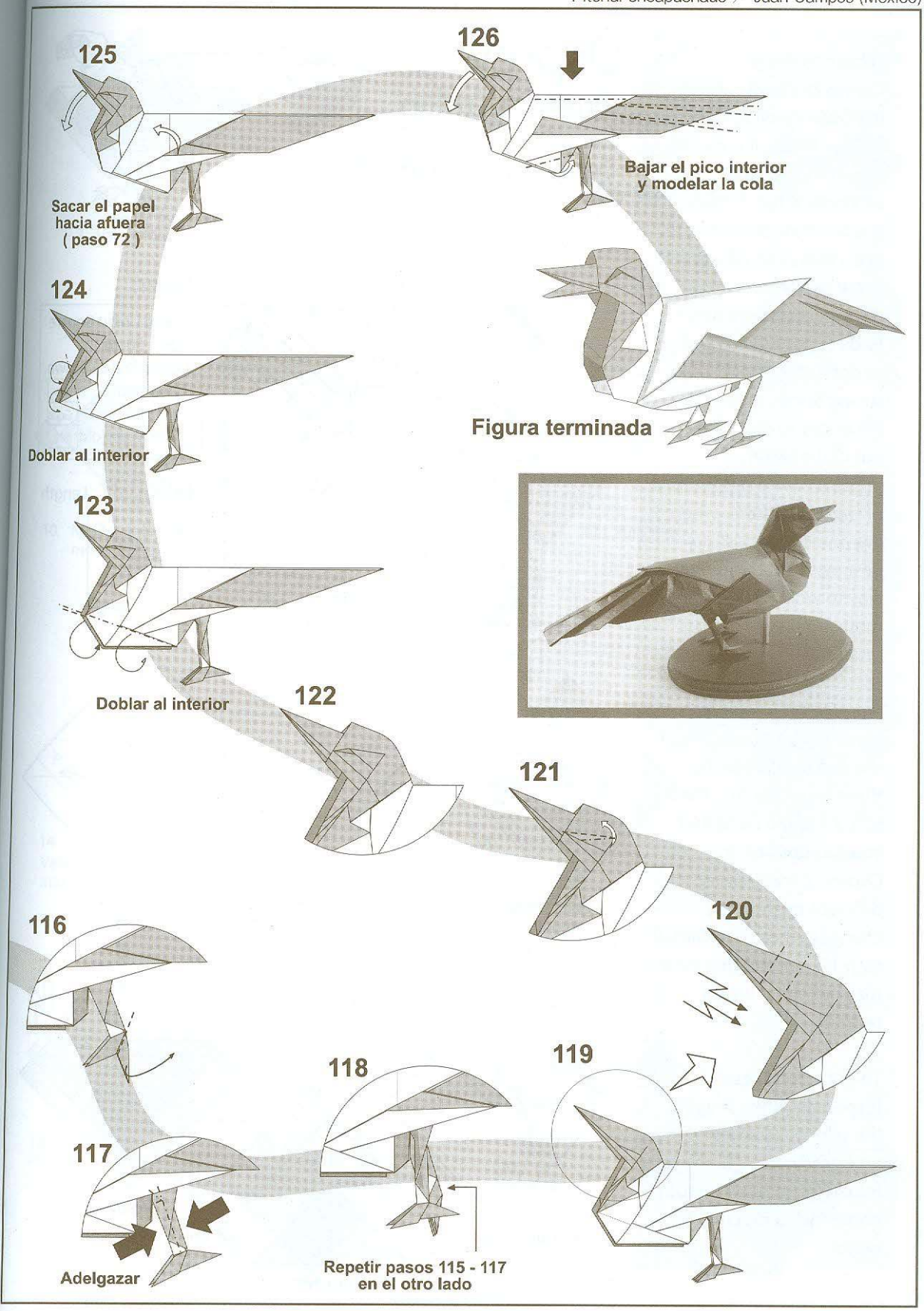

51
52
53
54
Desdoblar el área señalada
Abrir parcialmente
Enviar la punta indicada hacia el otro lado plegando hacia atrás el resto.
50
Hundir cerrado en los cuatro puntos
(Closed sink in the four corners)
55
56
57
Cerrar como se muestra
58
59
60
61
Invertir dobleces hacia adentro


70
71
72
Doblar
al interior
73
Hundir
cerrado
tratando de
seguir una línea vertical
(Closed sink)
69
Repetir pasos 58-68
en el otro lado
68
Bajar la punta mientras
se realizan los pliegues
indicados
67
Hundir cerrado
(Closed sink)
66
62
Escalonar hacia
abajo
63
64
Jalar un poco en la
dirección de la flecha
65
Enviar la zona oscura hacia
adentro jalando hacia abajo
la punta indicada


75
76
77
Introducir en el interior
de las solapas
78
74
80
79
81
82
Hundir abierto
(Open sink)
87
84
83
85
86
Repetir pasos
en el otro lado


99
100
101
102
Hundir abierto
Repetir pasos 99 -100
en la parte de atrás
98
Repetir pasos 96- 07
por la parte de atrás
Repetir pasos 93 - 101
en el otro lado
97
96
95
94
Realizar los
dobleces indicados y enviar
la punta señaladaa la derecha
88
93
Abrir un poco
92
89
90
91


103
104
105
106
107
Insertar hacia adentro
invirtiendo los dobleces
108
109
110
Para la solapa de abajo, insertar
hacia adentro escalonando
como se indica
90
111
112
113
114
115


125
Sacar el papel hacia afuera (paso 72)
126
Bajar el pico interior y modelar la cola
124
Doblar al interior
Figura terminada
123
Doblar al interior
122
121
120
116
119
118
117
Adelgazar
Repetir pasos 115 - 117 en el otro lado

I chose to design an Osprey because it lends itself quite well to origami design. Firstly, it is mainly two-coloured, and secondly, it has a characteristic stripe through the eye. I knew I could use these two features to distinguish it from other birds of prey. It was also important to suggest big, strong talons, as they are necessary to pluck a fish out of the water.
We also have a nesting pair of Ospreys close to where I live and I drive past the nest every morning on the way to work. This was a big motivator in the design process.

Because the shoulders come from a "loose" flap, I wanted to accentuate them by protruding them in front of the chest, but you can position the Osprey in many other different postures by changing the crimp-fold of step 121 (although then it may not stand unsupported).

To get a good result (especially when shaping the talons), I suggest thin and large paper. Mine was folded from brown tissue paper mc'ed onto white washi.

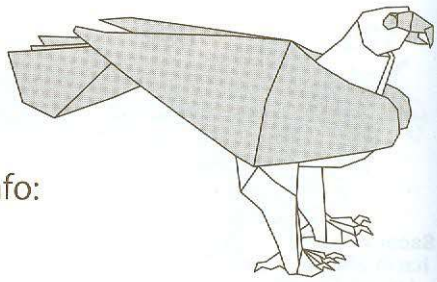
Osprey

Quentin Trollip

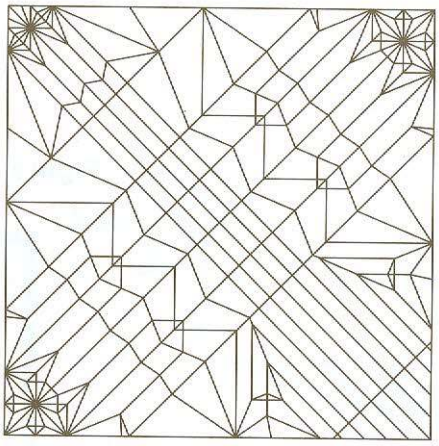
Canada

Design and diagram info:

Date: 6 November 2011
Difficulty: Complex
Time to fold:3 Hours



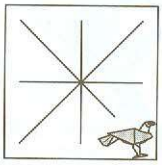
Crease Pattern:

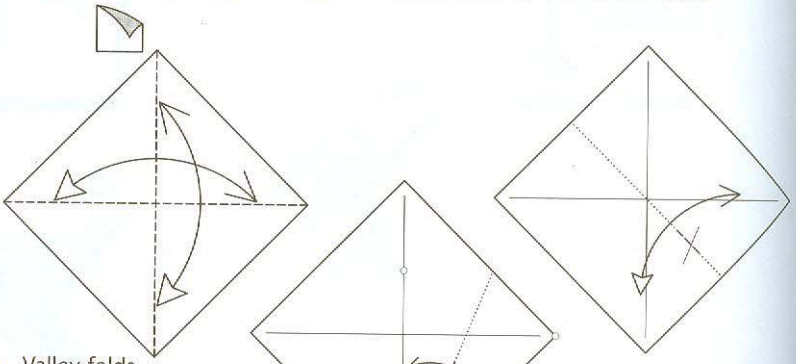


Paper:

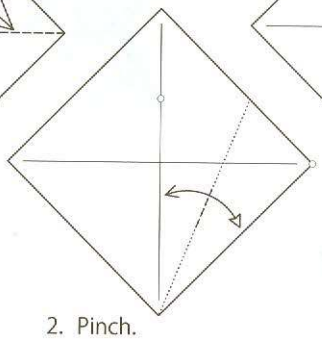
Single Uncut Square
Size: 50cm
Color: White - Brown
Type: Kami — No
Foil — Good
Wet-Fold — Best

Ratio0.37 Length



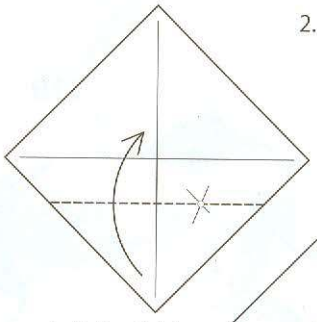


1. Valley-folds and unfold.

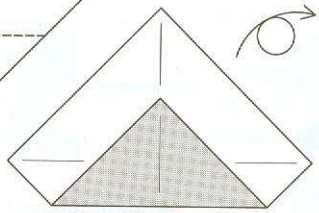


2. Pinch.

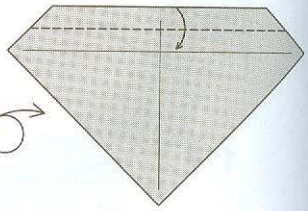
3. Pinch.



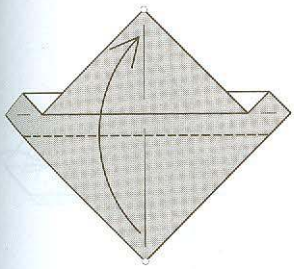
4. Valley-fold.



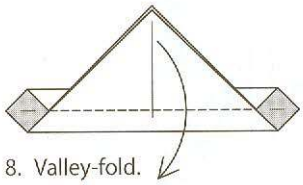
5. Turn over.



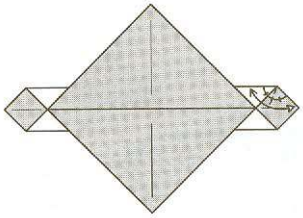
6. Valley-fold.

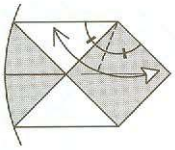


7. Valley-fold.

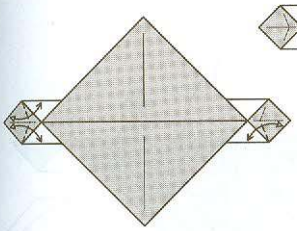


8. Valley-fold.

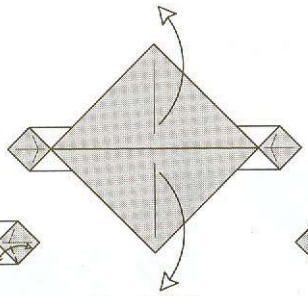




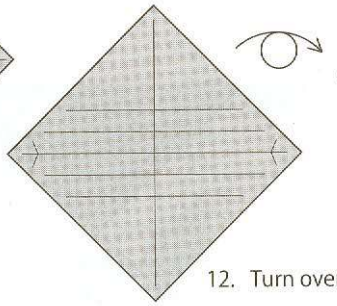
9. Valley-fold and unfold.



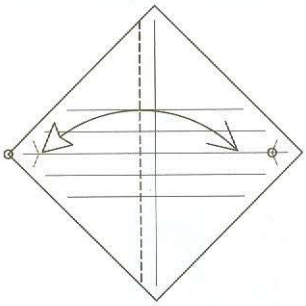
10. Repeat step 9 three more times.



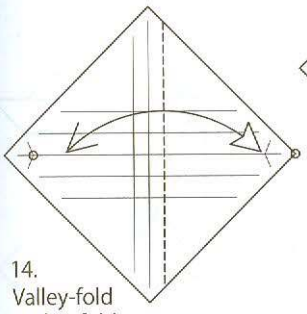
11. Unfold.



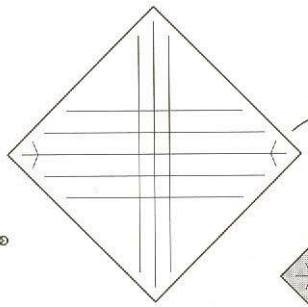
12. Turn over.



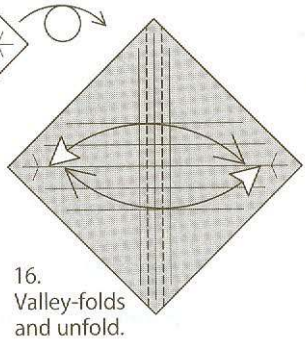
13. Valley-fold and unfold.



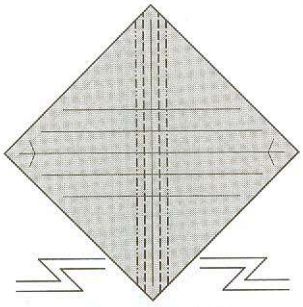
14. Valley-fold and unfold.



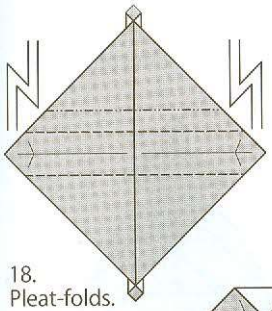
15. Turn over.



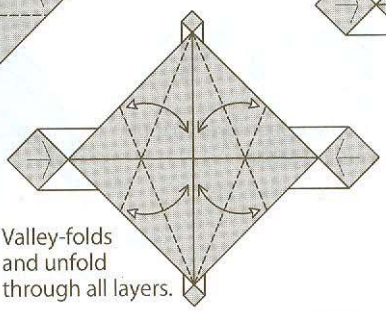
16. Valley-folds and unfold.



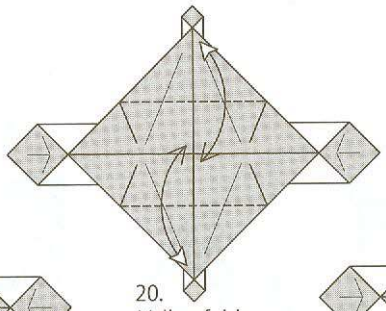
17. Pleat-folds.



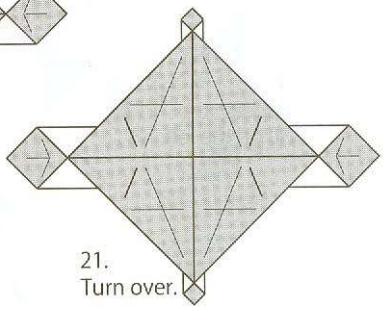
18. Pleat-folds.



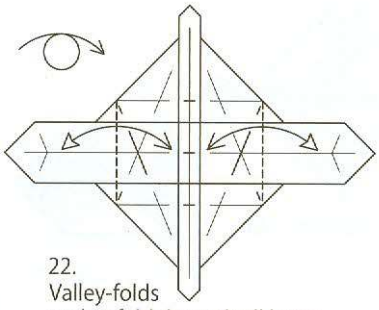
19. Valley-folds and unfold through all layers.



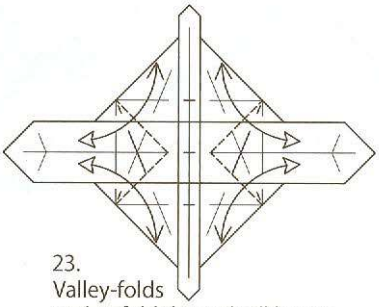
20. Valley-folds and unfold.



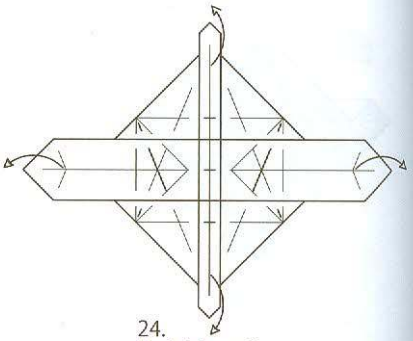
21. Turn over.



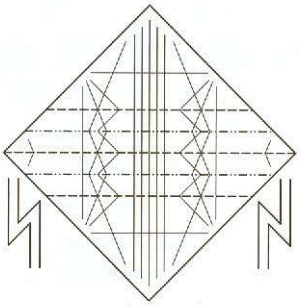
22.
Valley-folds
and unfold through all layers.



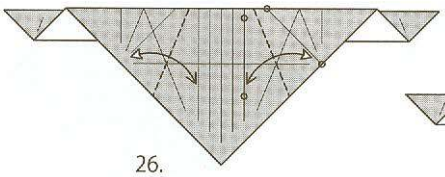
23.
Valley-folds
and unfold through all layers.



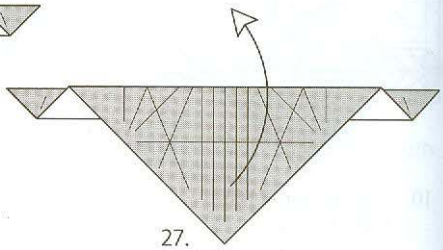
24.
Unfold totally.



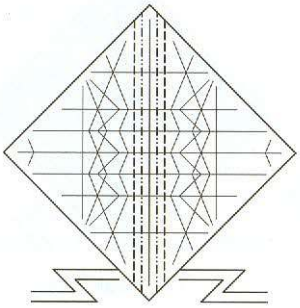
25. Pleat-fold.



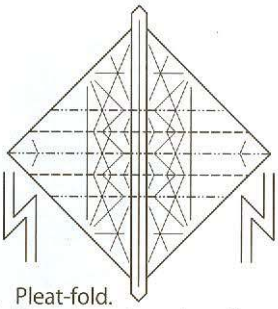
26.
Valley-folds through
all layers and unfold.



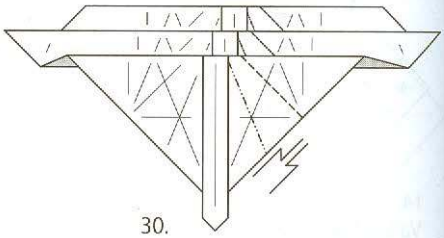
27.
Unfold totally.



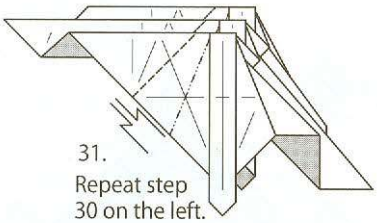
28. Repeat step 17.



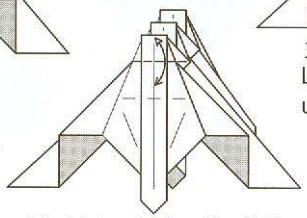
29. Pleat-fold.
Note the orientation of
the folds are reversed.



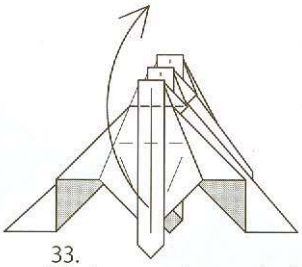
30.
Reverse-fold in and out.



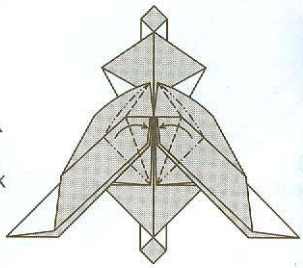
31.
Repeat step
30 on the left.



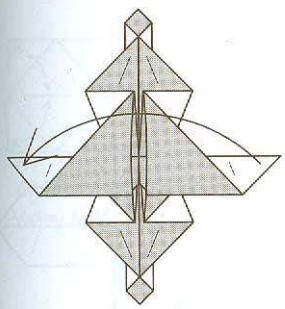
32. Valley-fold and unfold.



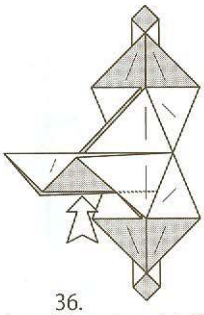
33.
Lift the upper layer to look
underneath it.



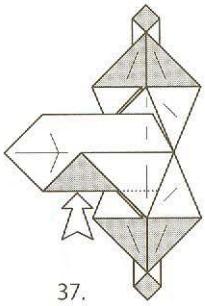
34. Reverse-fold in and out on both
sides to flatten.



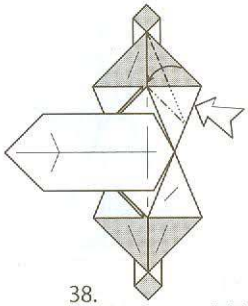
35. The result.
Valley-fold.



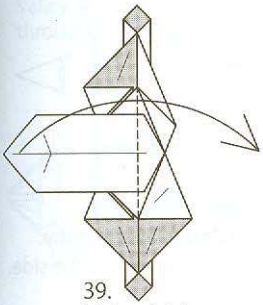
36.
Closed-unsink the
lower layer.



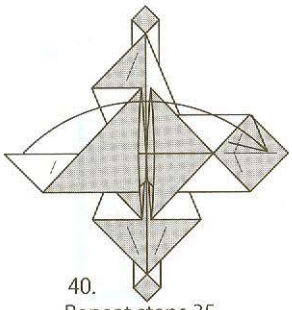
37.
Closed-unsink the
remaining layer.



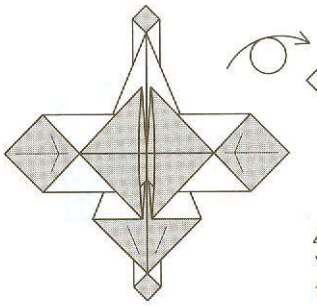
38.
Inside reverse-fold.



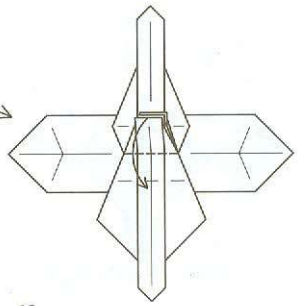
39.
Valley-fold.



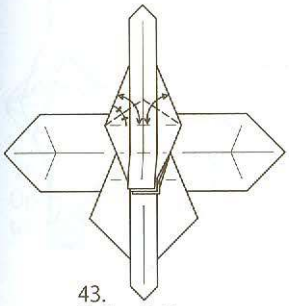
40.
Repeat steps 35
to 39 on the left.



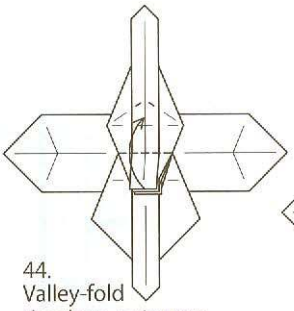
41. Turn over.



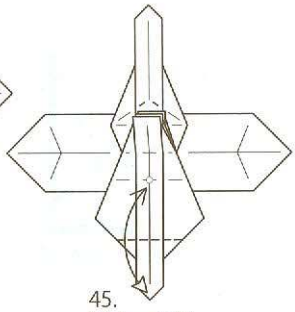
42.
Valley-fold
the three points down.



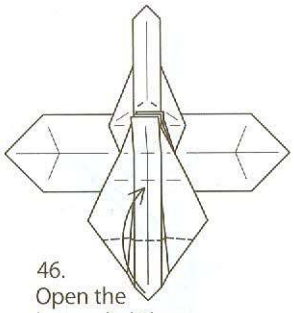
43.
Valley-folds
and unfold.



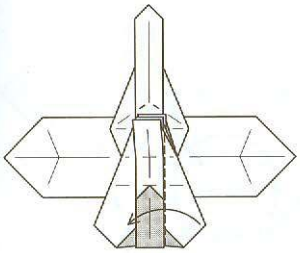
44.
Valley-fold
the three points up.



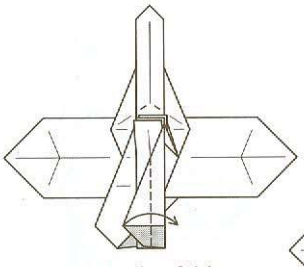
45.
Valley-fold
and unfold.



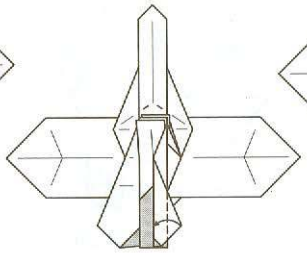
46.
Open the
layers slightly
]and valley-fold the
raw corner.



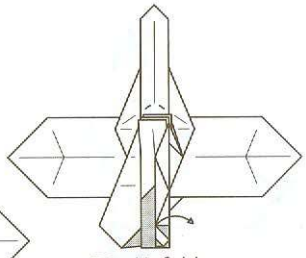
47. Valley-fold.



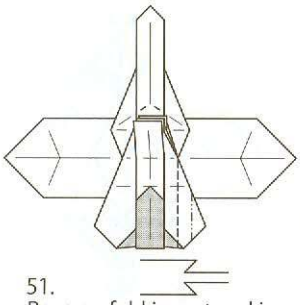
48. Valley-fold.



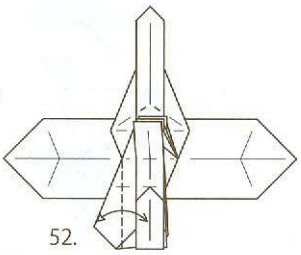
49. Valley-fold.



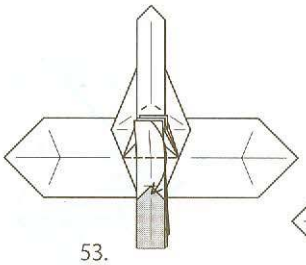
50. Unfold.



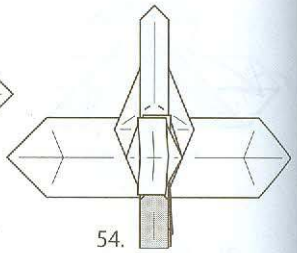
51.
Reverse-fold in, out and in.



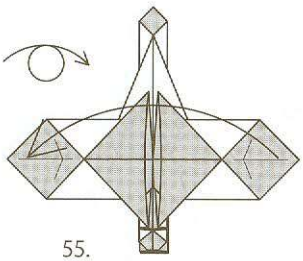
52.
Repeat steps 47 to 51 on the left.



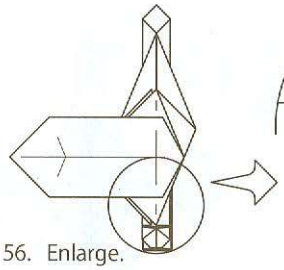
53.
Valley-fold one layer down.



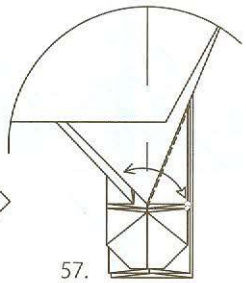
54.
Turn over.



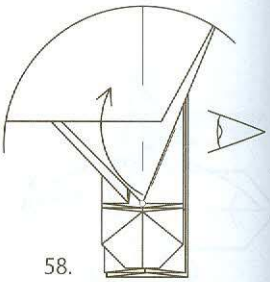
55.
Valley-fold the flap.



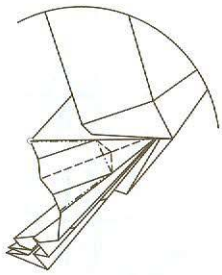
56. Enlarge.



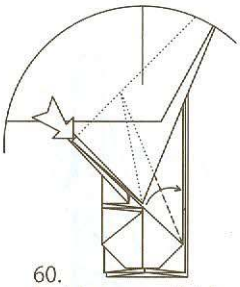
57.
Valley-fold and unfold through two layers.



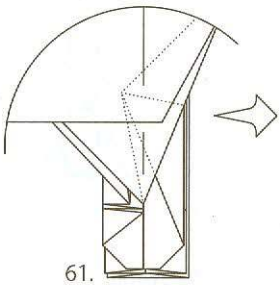
58.
Lift the layer slightly.
Next view from the side.



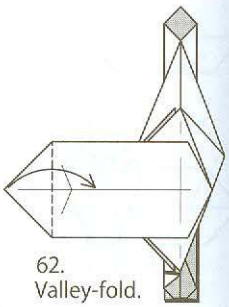
59.
Squash-fold and flatten.
Return to normal view.



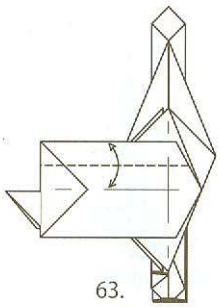
60.
Inside reverse-fold.



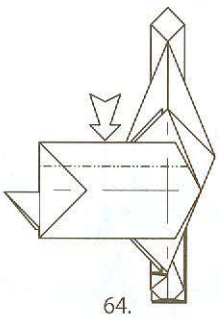
61.
Scale change.



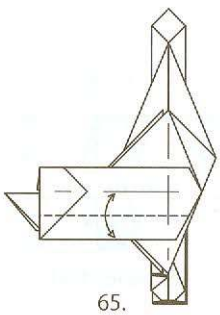
62.
Valley-fold.



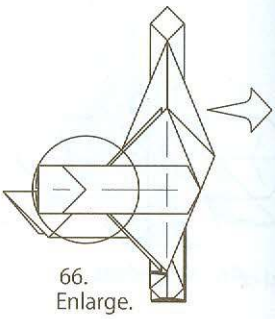
63.
Valley-fold and unfold.



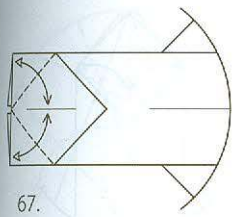
64.
Closed-sink.



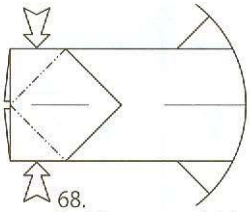
65.
Repeat steps 63 to 64.



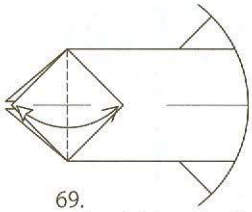
66.
Enlarge.



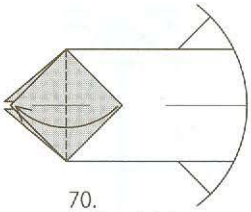
67.
Valley-folds and unfold.



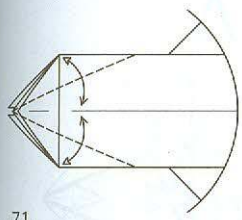
68.
Inside reverse-folds.



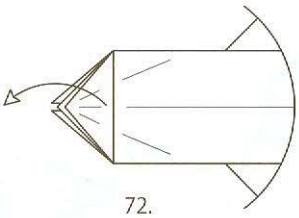
69.
Valley-fold and unfold.



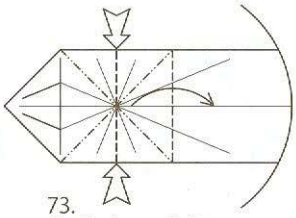
70.
Valley-fold.



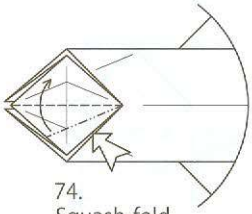
71.
Valley-folds and unfold through all layers.



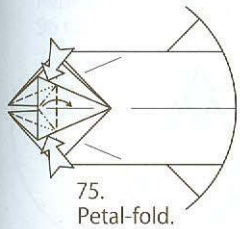
72.
Unfold the raw corner.



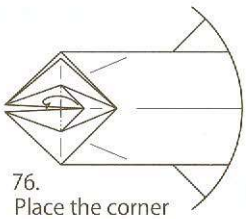
73.
Preliminary-fold.



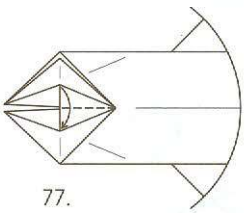
74.
Squash-fold.



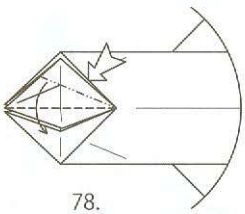
75.
Petal-fold.



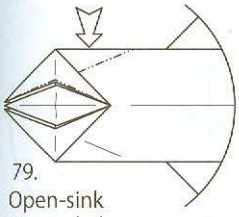
76.
Place the corner inside.



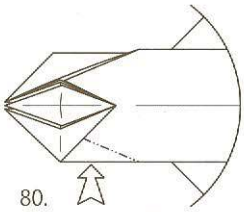
77.
Valley-fold one layer.



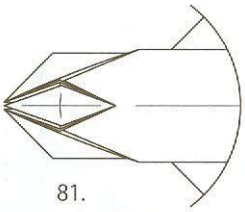
78.
Repeat steps 74 to 77 above.



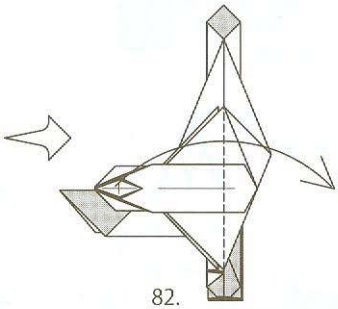
79.
Open-sink triangularly.



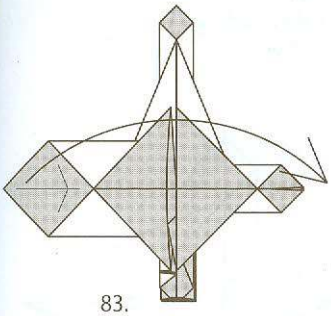
80.
Repeat step 79 on the bottom.



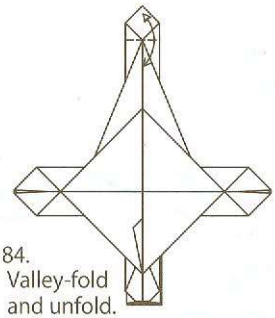
81.
Scale change.



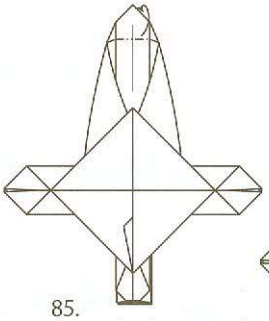
82.
Valley-fold.



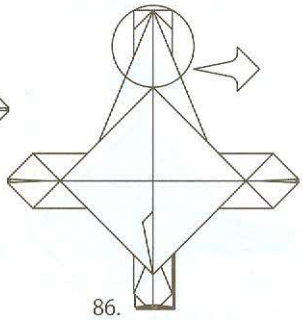
83.
Repeat steps 55 to 82 on the left.



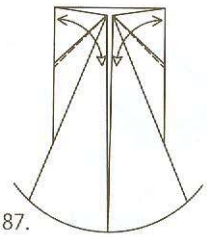
84.
Valley-fold and unfold.



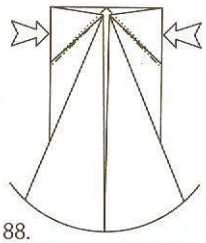
85.
Open the layers and mountain-fold the raw corner.



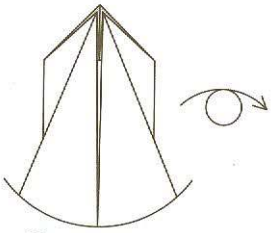
86.
Enlarge.



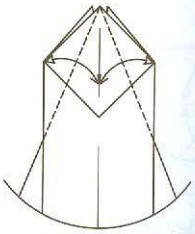
87.
Valley-folds and unfold.



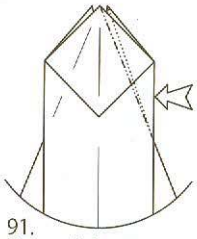
88.
Inside reverse-folds.



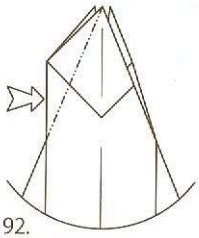
89.
Turn over.



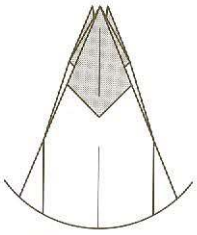
90. Valley-folds and unfold.



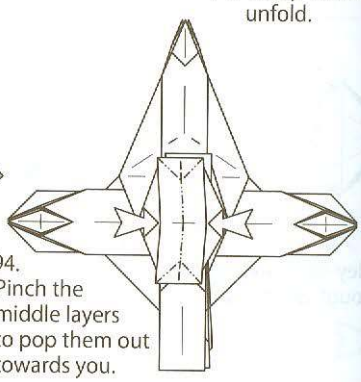
91.
Open-sink triangularly.



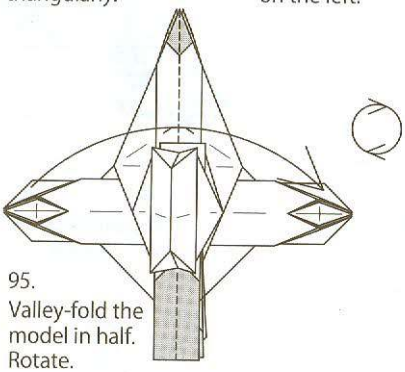
92.
Repeat step 91 on the left.



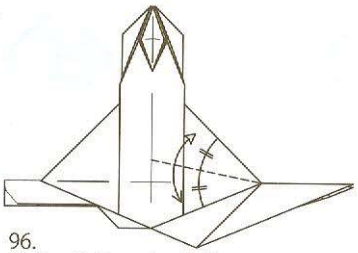
93.Scale change.



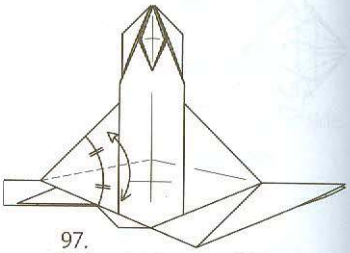
94.
Pinch the middle layers to pop them out towards you.



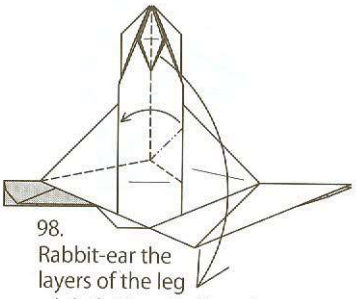
95.
Valley-fold the model in half. Rotate.



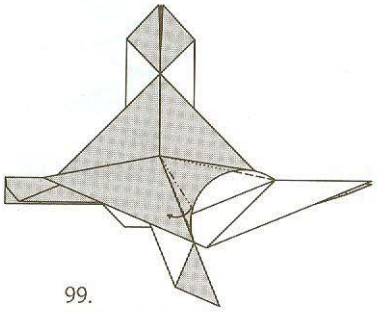
96.
Valley-fold and unfold.



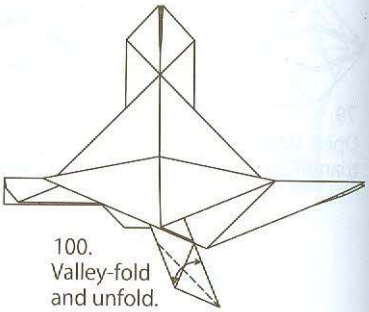
97.
Valley-fold and unfold.



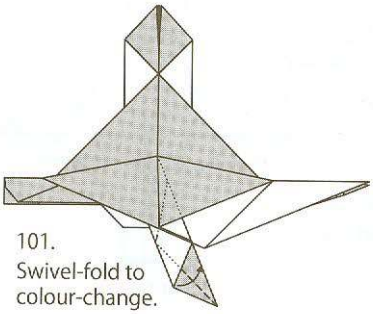
98.
Rabbit-ear the layers of the leg while folding the flap down.



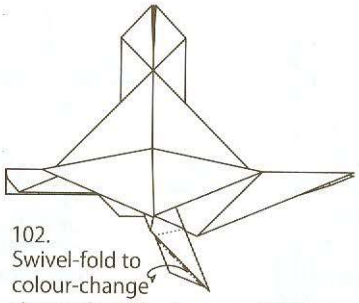
99.
Flatten the raw edge.



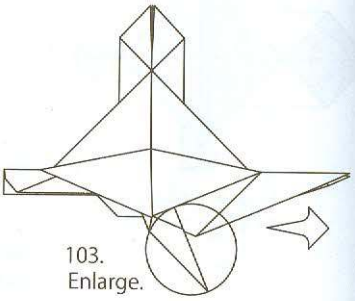
100.
Valley-fold and unfold.



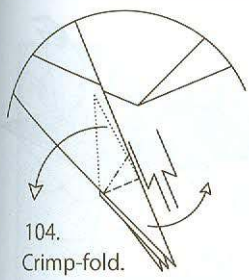
101.
Swivel-fold to colour-change.



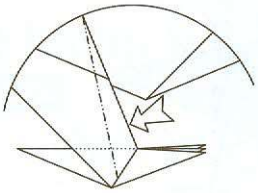
102.
Swivel-fold to colour-change the inside of the leg as well.



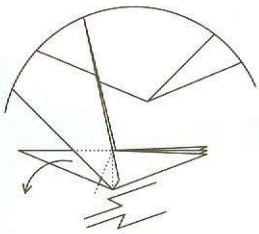
103.
Enlarge.



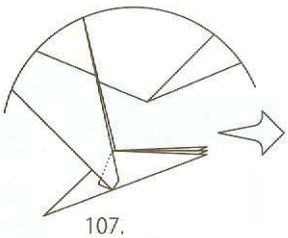
104.
Crimp-fold.



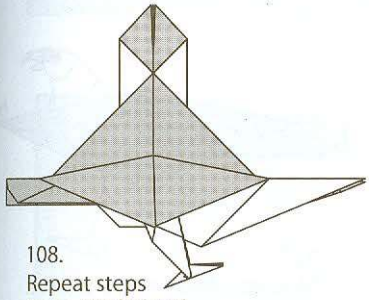
105. Open-sink.



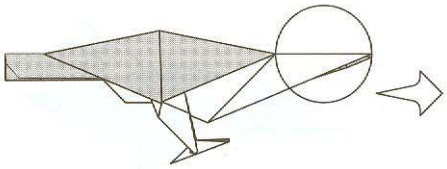
106. Inside crimp-fold.



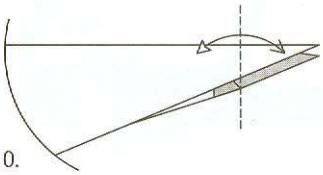
107.
Scale change.



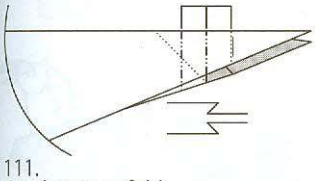
108.
Repeat steps
96 to 107 behind.



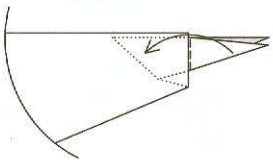
109. Enlarge.



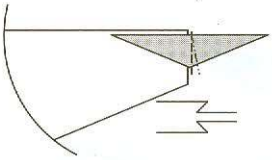
110.
Valley-fold as far as you can
and unfold.



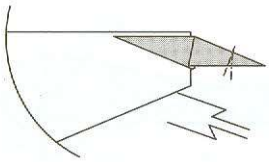
111.
Inside crimp-fold.



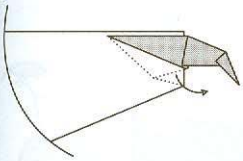
112. Valley-fold.
Repeat behind.



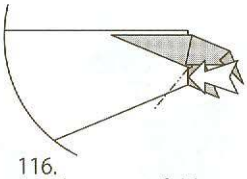
113. Crimp-fold.



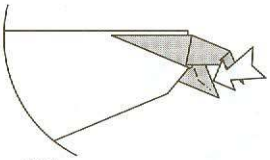
114. Crimp-fold.



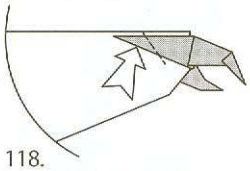
115. Pull out the lower jaw.



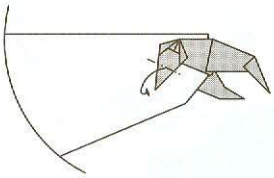
116.
Inside reverse-fold.
Repeat behind.



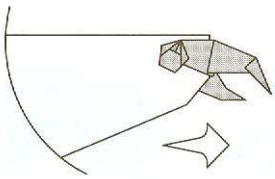
117.
Narrow the
lower beak.



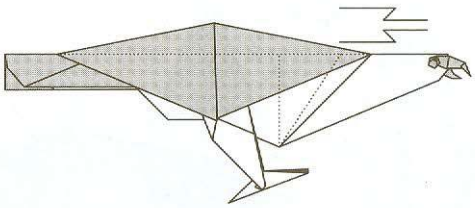
118.
Squash-fold the tip
up and down
to form the eye.
Repeat behind.



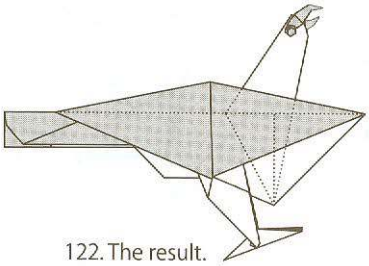
119. Mountain-fold.
Repeat behind.



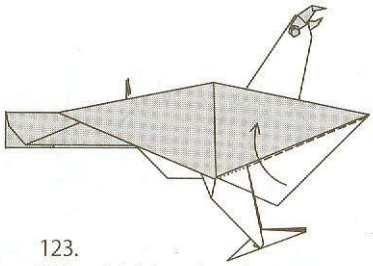
120. Scale change.



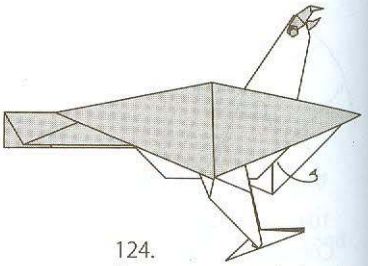
121. Open the layers from the top
and reverse-fold in and out on
the creases made in step 43.



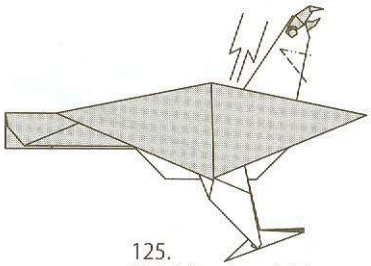
122. The result.



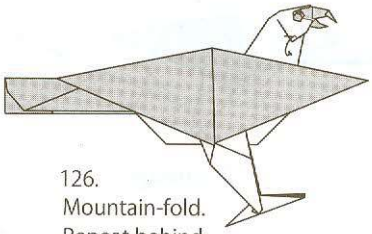
123.
Valley-fold the white layer into the pocket on its outside.



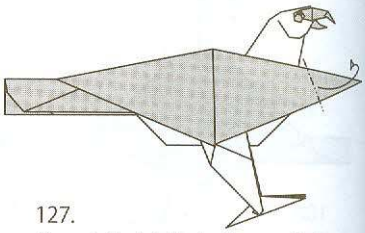
124.
Repeat step 123 behind.



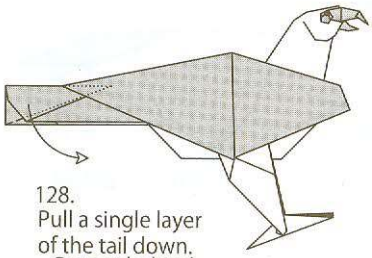
125.
Outside crimp-fold.



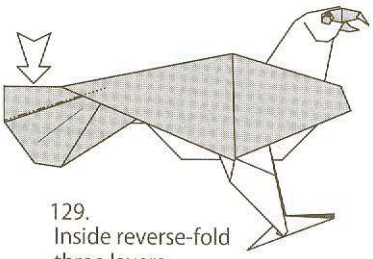
126.
Mountain-fold.
Repeat behind.



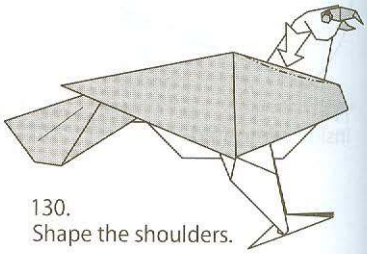
127.
Mountain-fold into the pocket.
Repeat behind.



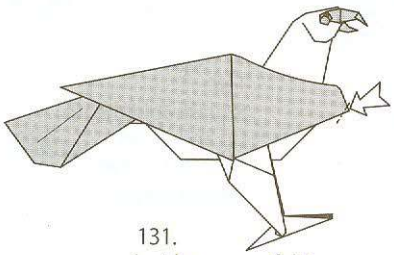
128.
Pull a single layer of the tail down.
Repeat behind.



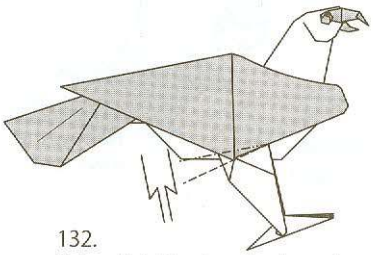
129.
Inside reverse-fold three layers.



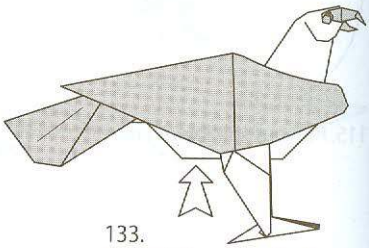
130.
Shape the shoulders.



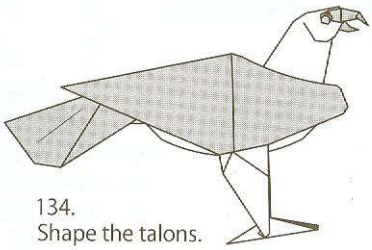
131.
Inside reverse-fold.
Repeat behind.



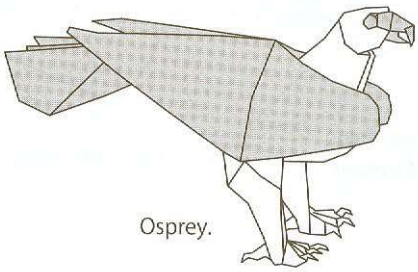
132.
Crimp-fold the legs backwards.



133.
Round the closed belly.



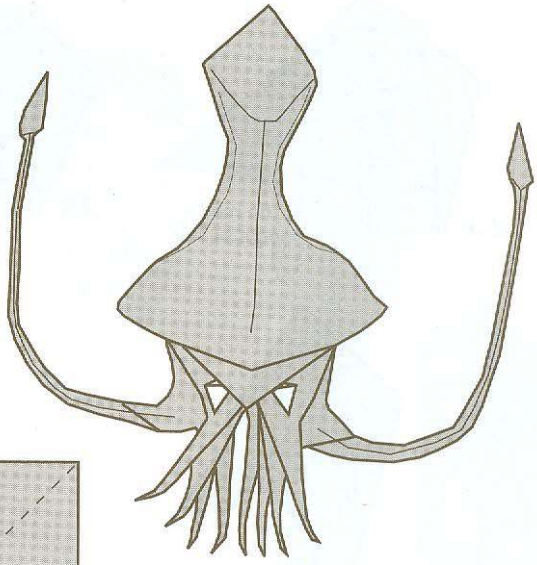
134.
Shape the talons.

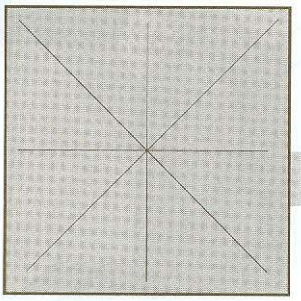


Osprey.

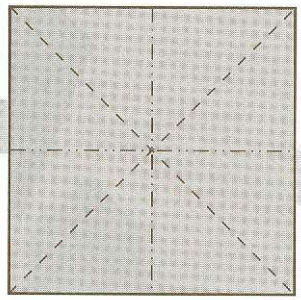
Calamar Flecha v.1.2
Squid

(c) M. Sirgo. 2012





1 Dorado o plateado
golden or silver



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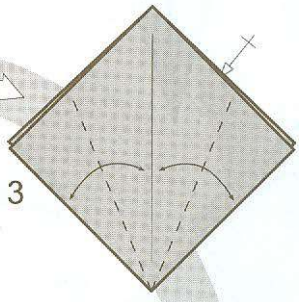

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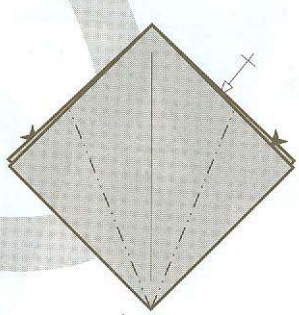

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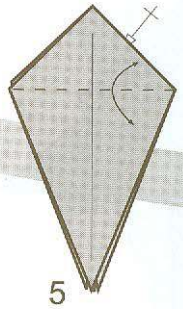

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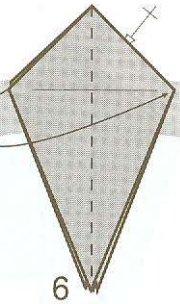

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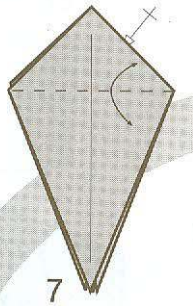

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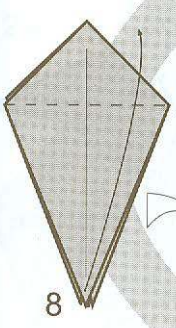

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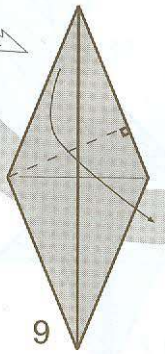

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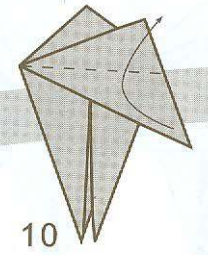

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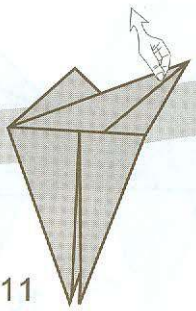
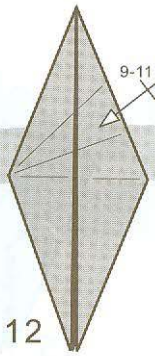
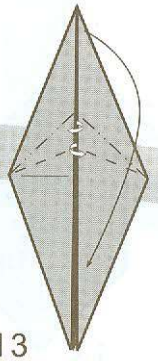


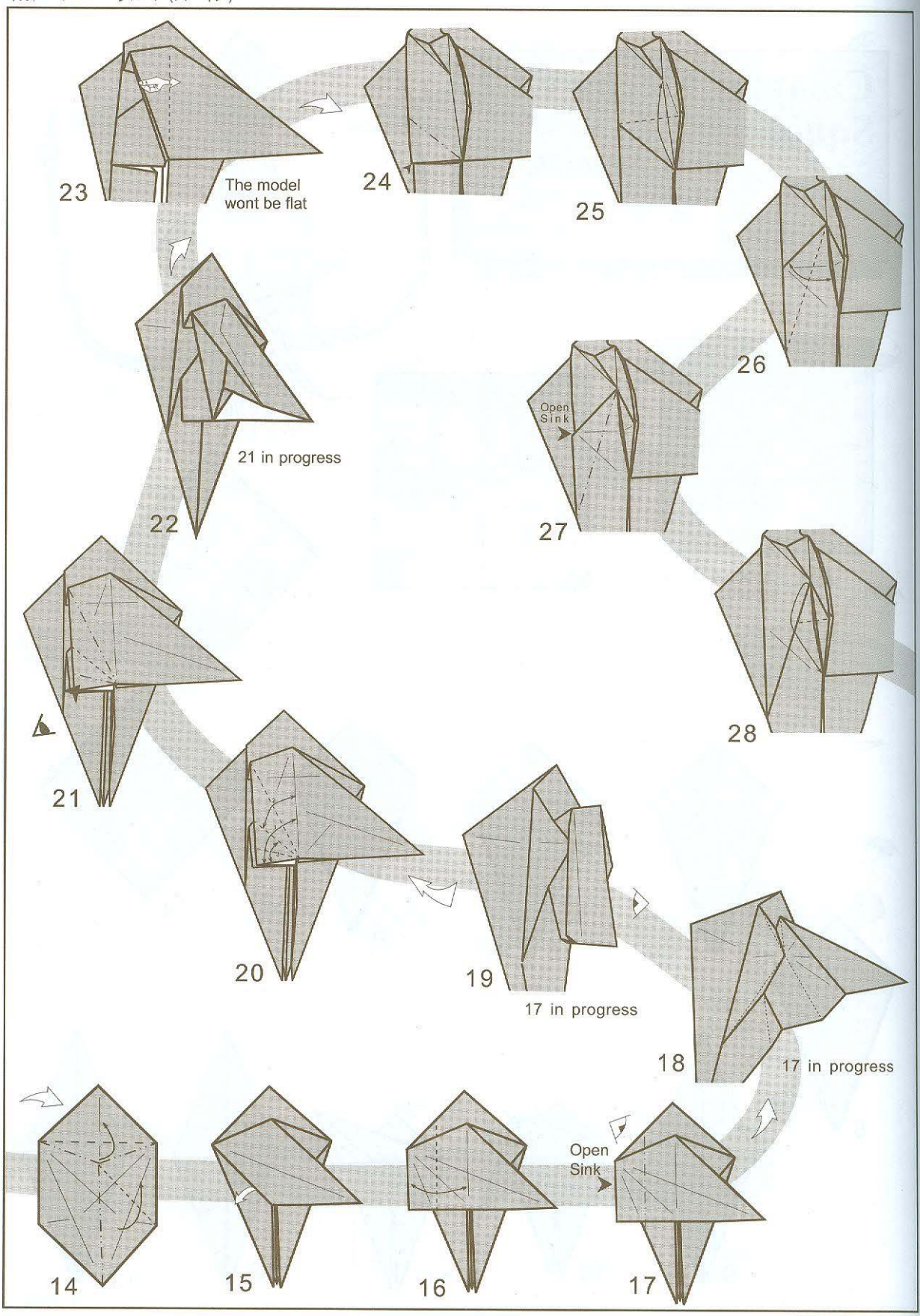
11



12



13


23
The model
wont be flat
24
25
26
Open
Sink
27
28
21 in progress
22
21
20
19
17 in progress
18
17 in progress
Open
Sink
14
15
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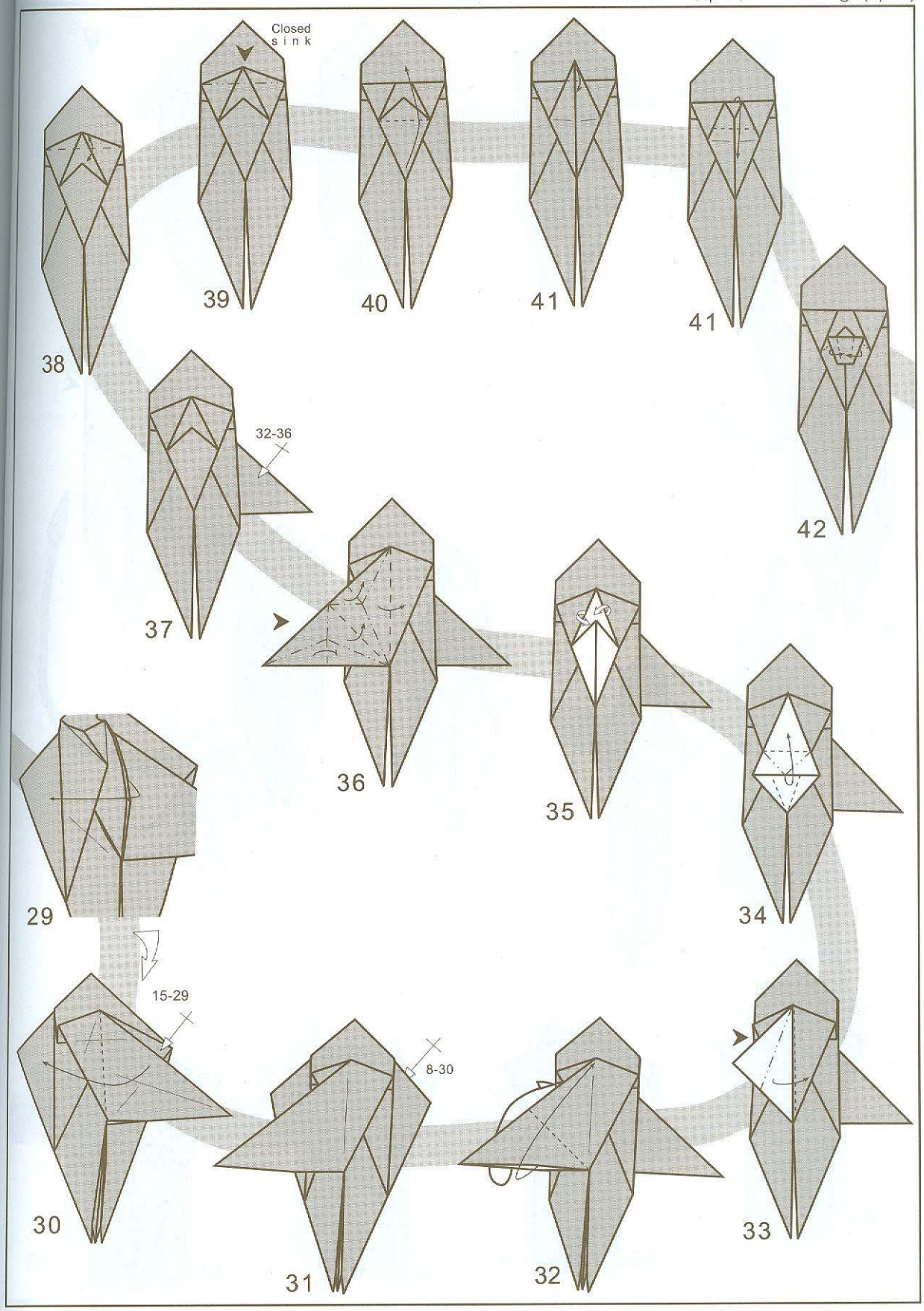
Closed
sink
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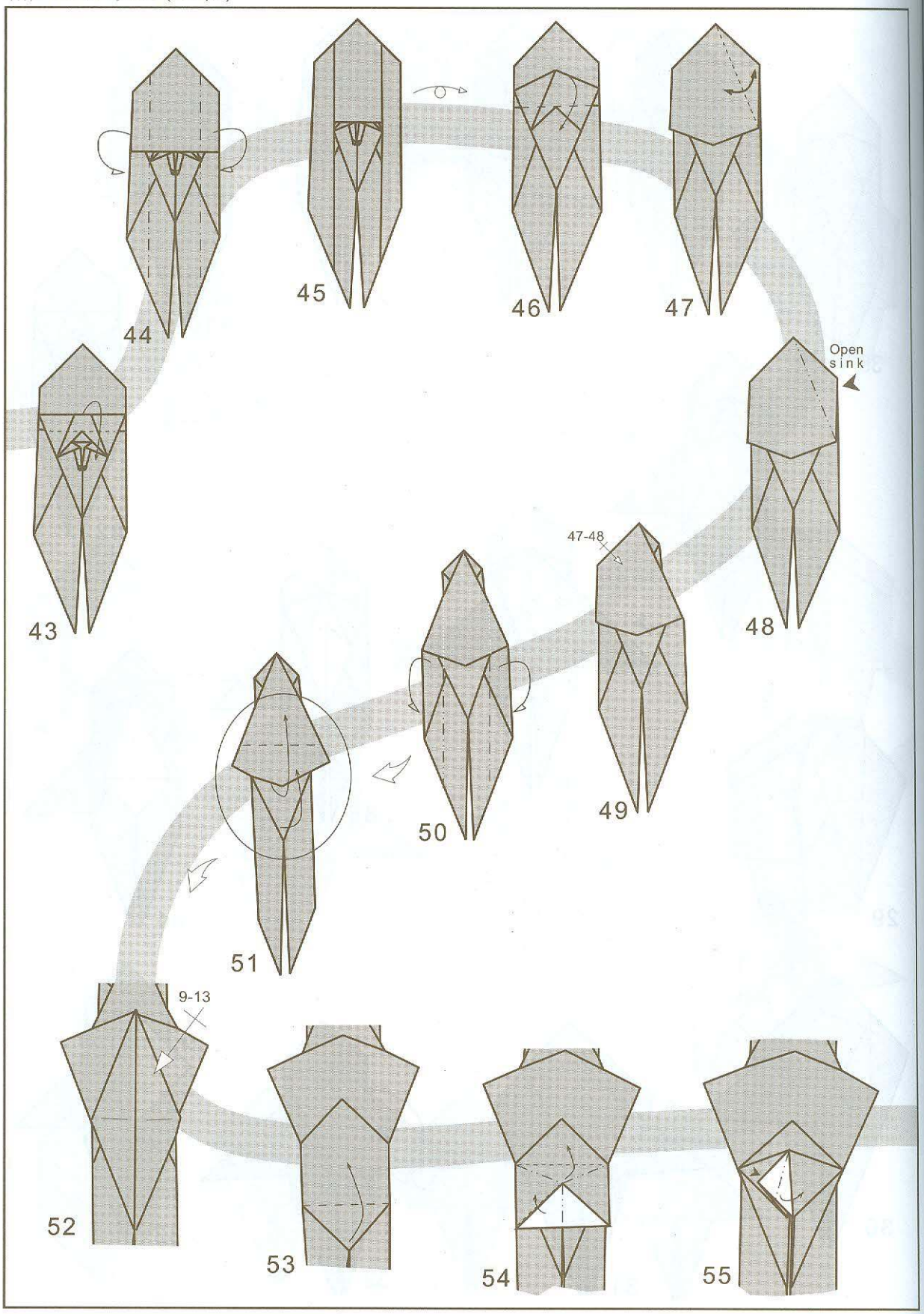
44
45
46
47
Open
sink
43
47-48
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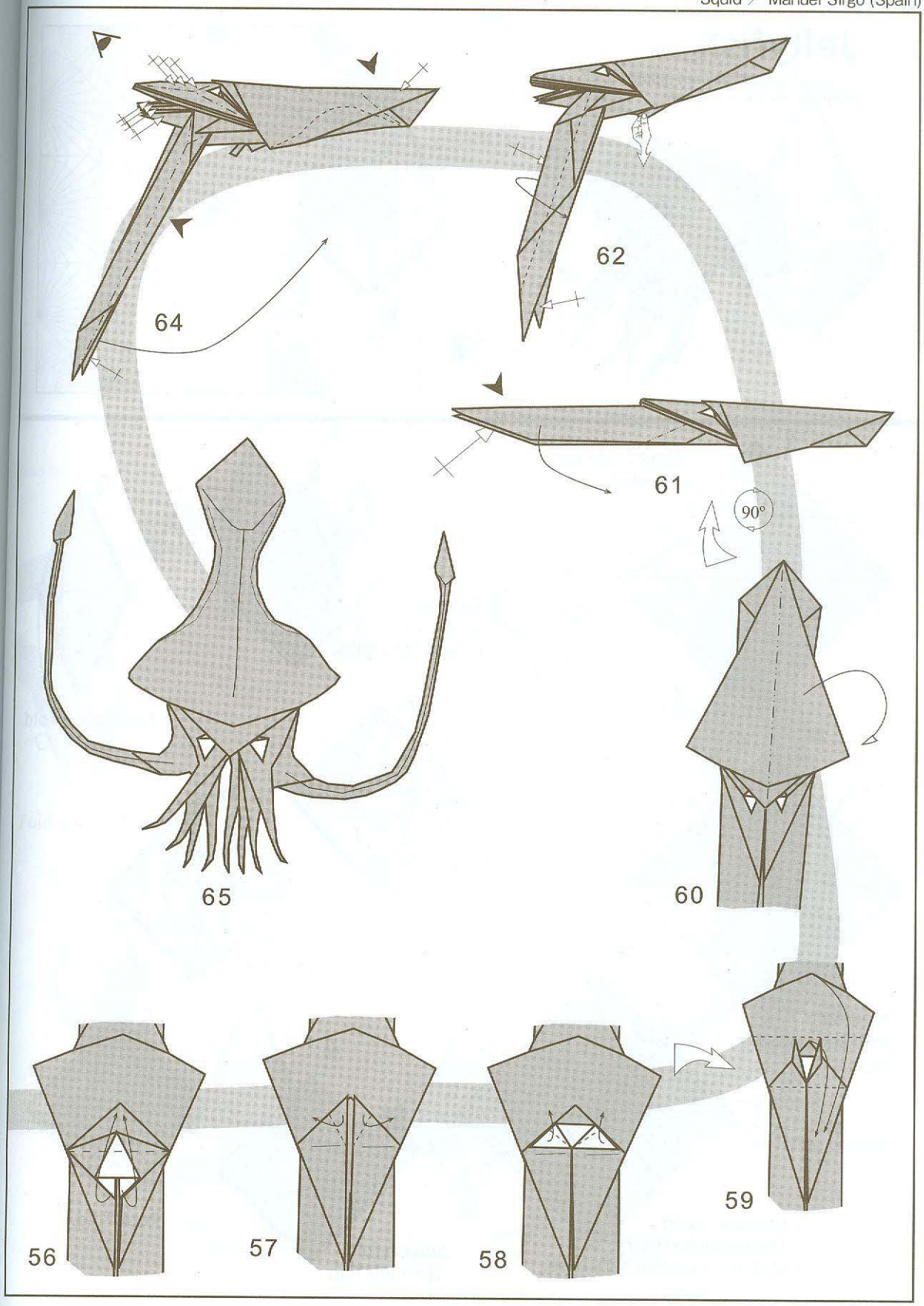
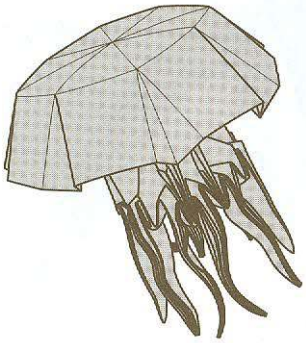
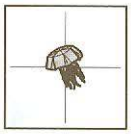
54
55

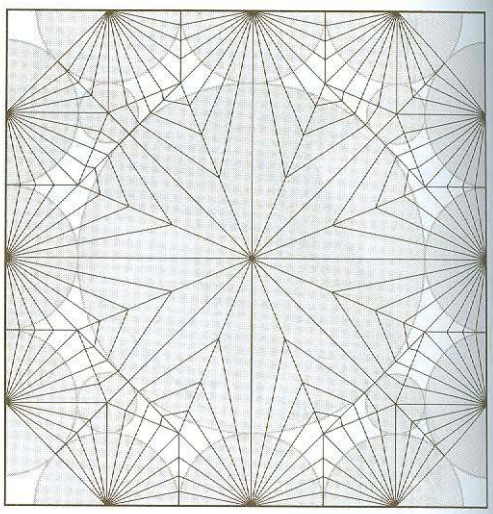

64
62
61
90°
65
60
56
57
58
59

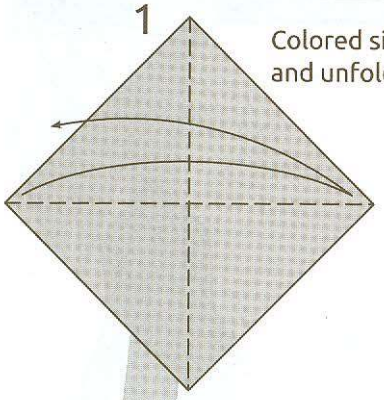
Jellyfish (2.1)

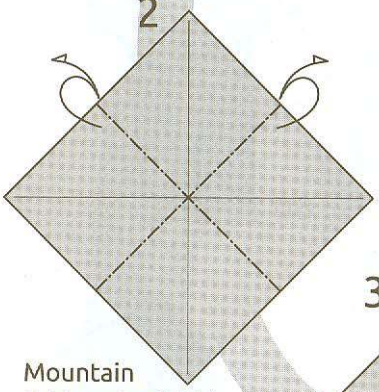
Created by: Chris Heynen (2008)
Diagrams by: Chris Heynen

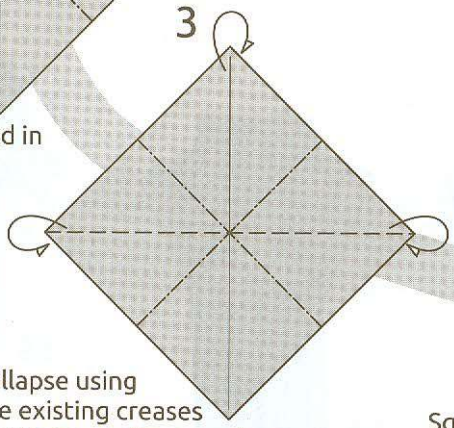


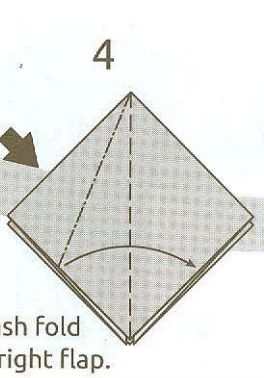


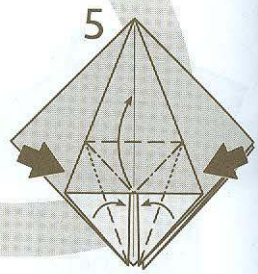


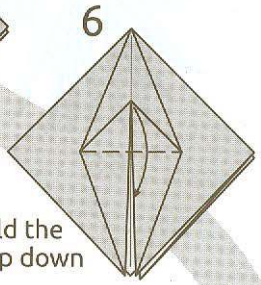


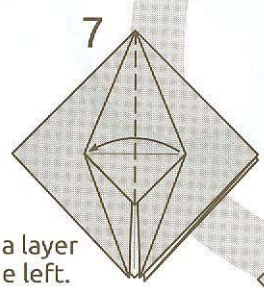


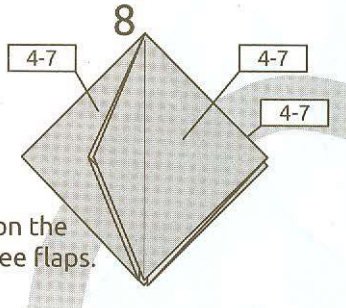


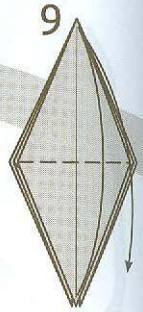


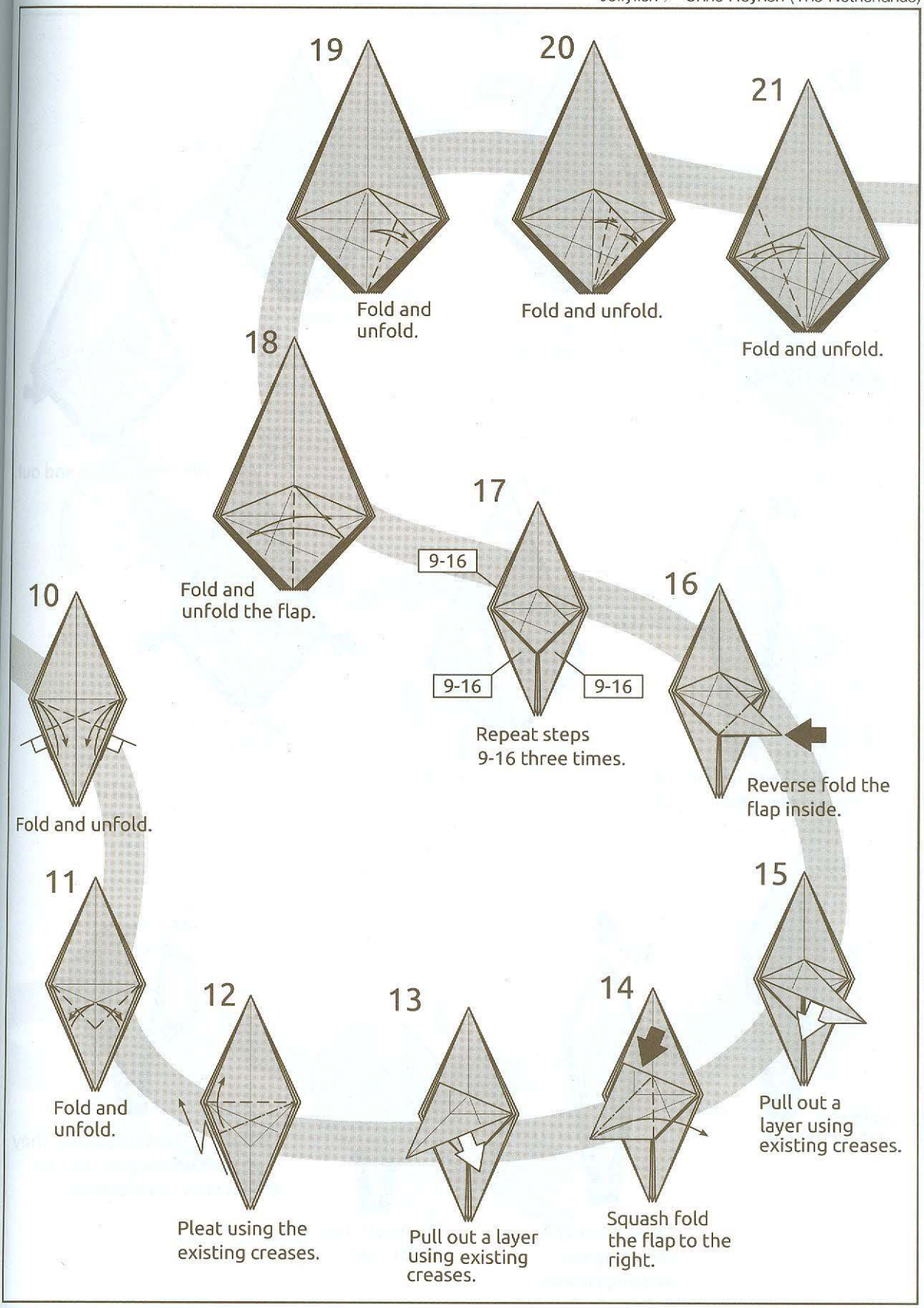


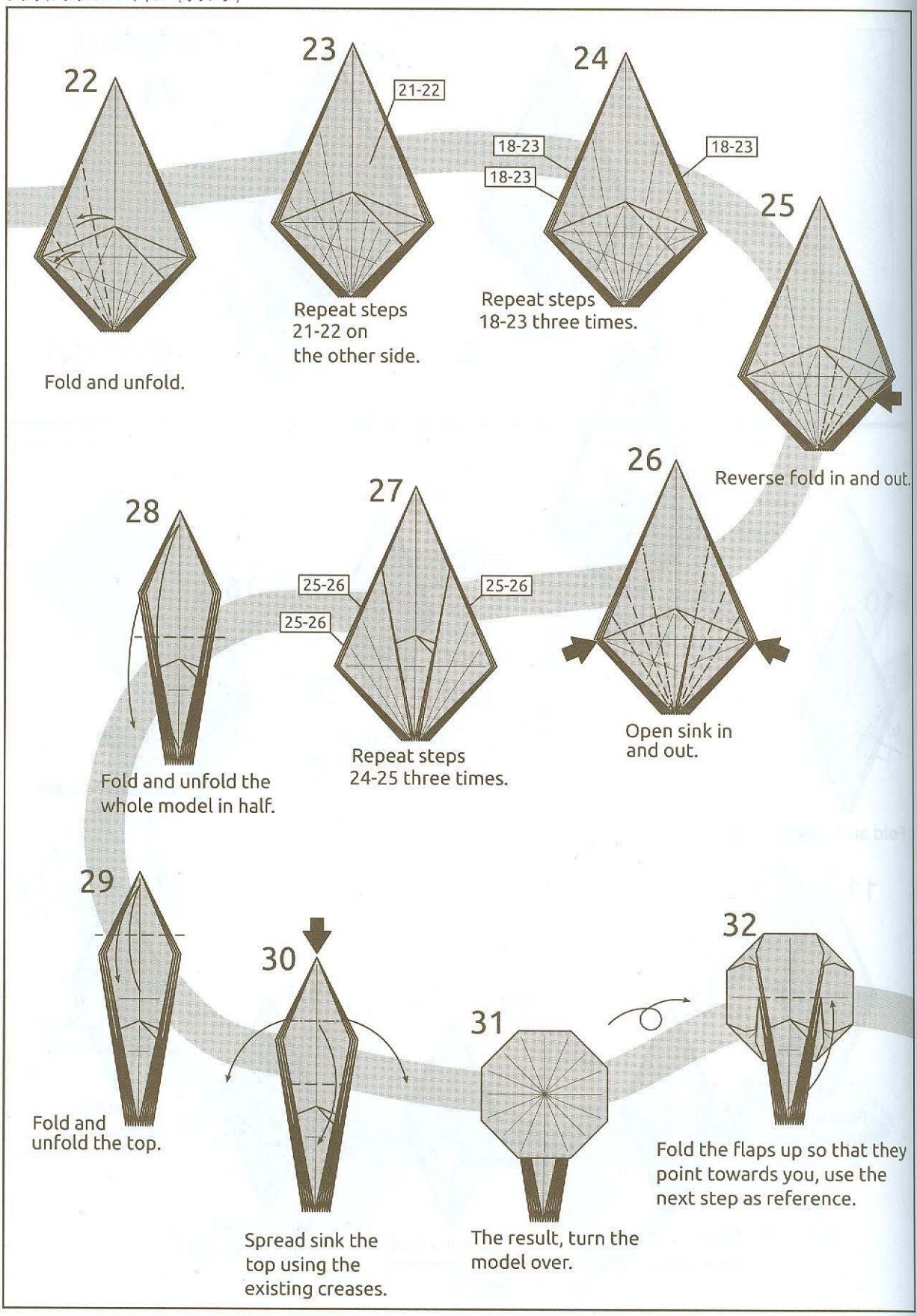


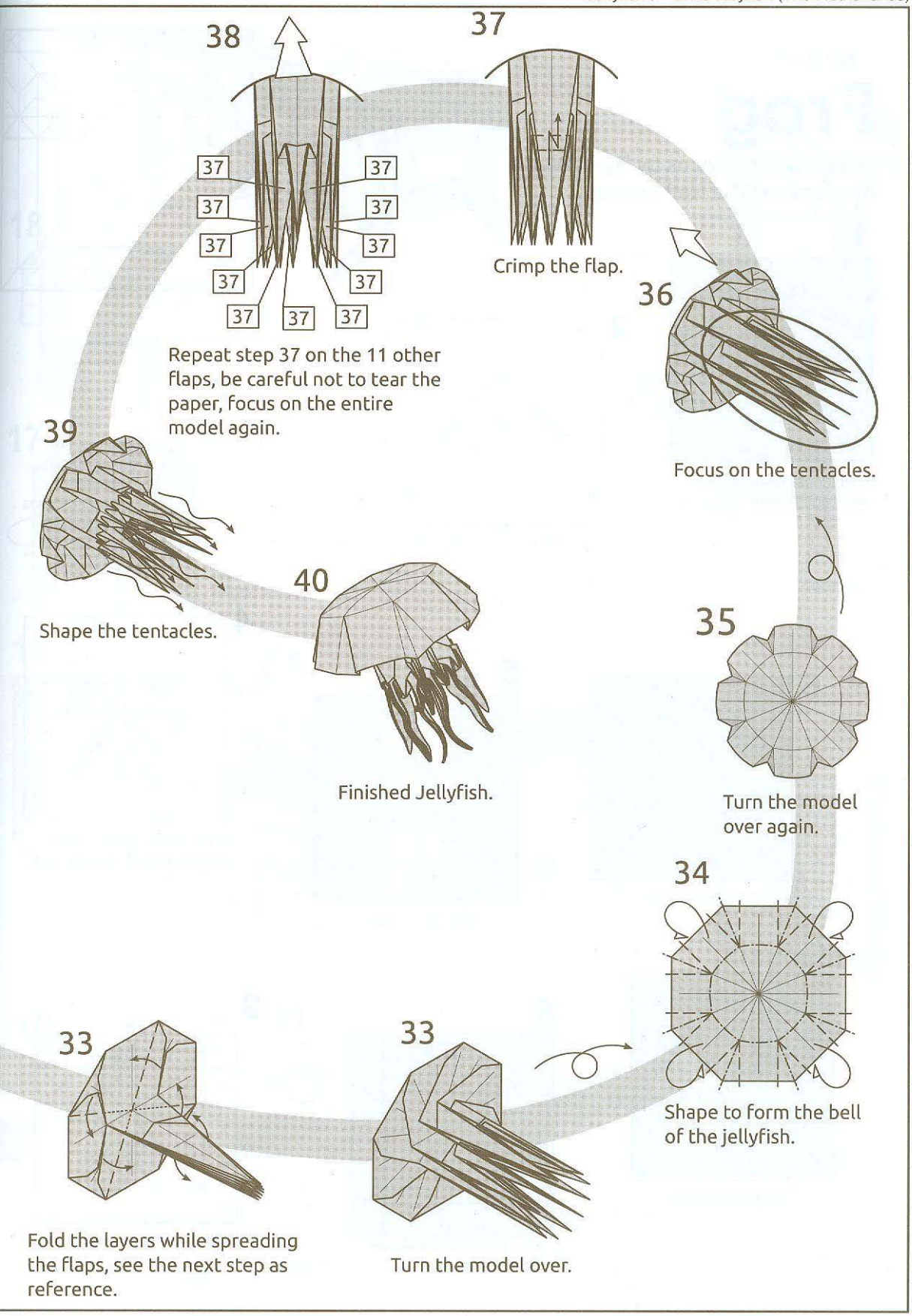







19
Fold and unfold.
20
Fold and unfold.
21
Fold and unfold.
18
Fold and unfold the flap.
17
9-16
9-16
9-16
Repeat steps 9-16 three times.
16
Reverse fold the flap inside.
15
Pull out a layer using existing creases.
14
Squash fold the flap to the right.
13
Pull out a layer using existing creases.
12
Pleat using the existing creases.
11
Fold and unfold.
10
Fold and unfold.

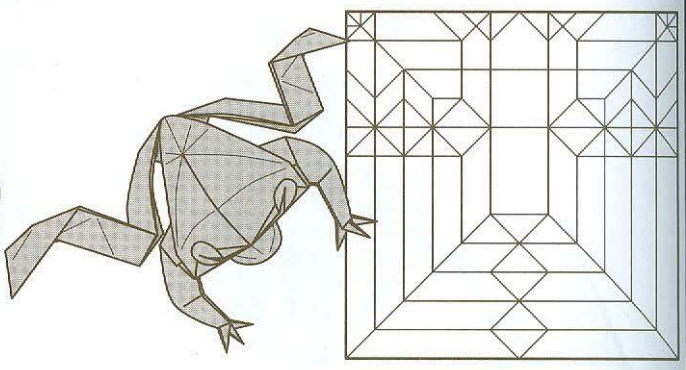

22
Fold and unfold.
23
21-22
Repeat steps
21-22 on
the other side.
24
18-23
18-23
18-23
Repeat steps
18-23 three times.
25
Reverse fold in and out.
26
Open sink in
and out.
27
25-26
25-26
25-26
Repeat steps
24-25 three times.
28
Fold and unfold the
whole model in half.
29
Fold and
unfold the top.
30
Spread sink the
top using the
existing creases.
31
The result, turn the
model over.
32
Fold the flaps up so that they
point towards you, use the
next step as reference.


38
37
37
37
37
37
37
37
37
37
37
37
37
Repeat step 37 on the 11 other flaps, be careful not to tear the paper, focus on the entire model again.
37
Crimp the flap.
36
Focus on the tentacles.
39
Shape the tentacles.
40
Finished Jellyfish.
35
Turn the model over again.
34
Shape to form the bell of the jellyfish.
33
Fold the layers while spreading the flaps, see the next step as reference.
33
Turn the model over.

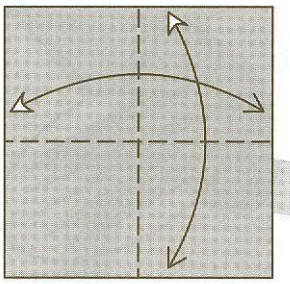
03/2012

Frog

Design and diagrams by Ryan Welsh
Amsterdam, The Netherlands

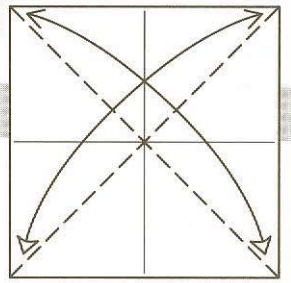


1



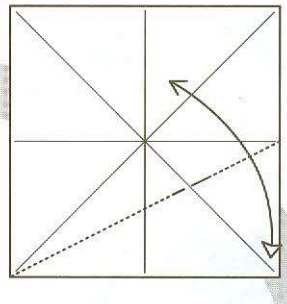
Fold the paper in half both ways and unfold. Turn over.

2



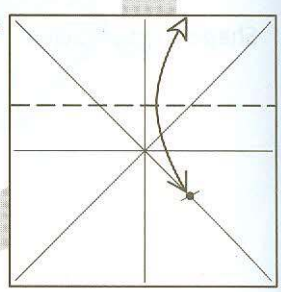
Crease along the diagonals.

3



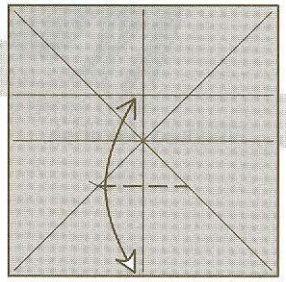
Connect the points shown. Only sharpen where it crosses the diagonal.

4



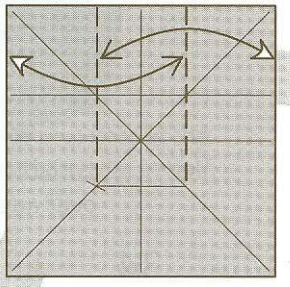
Fold the top edge to the intersection of creases and unfold. Turn over.

5



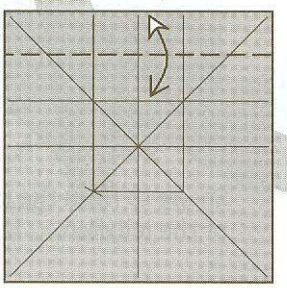
Fold and unfold.

6



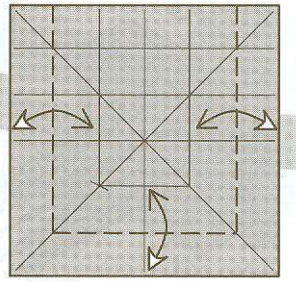
Fold and unfold.

7



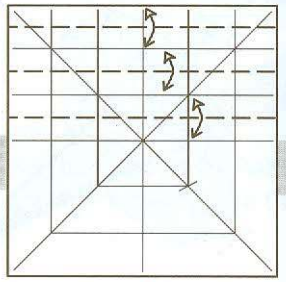
Fold and unfold.

8

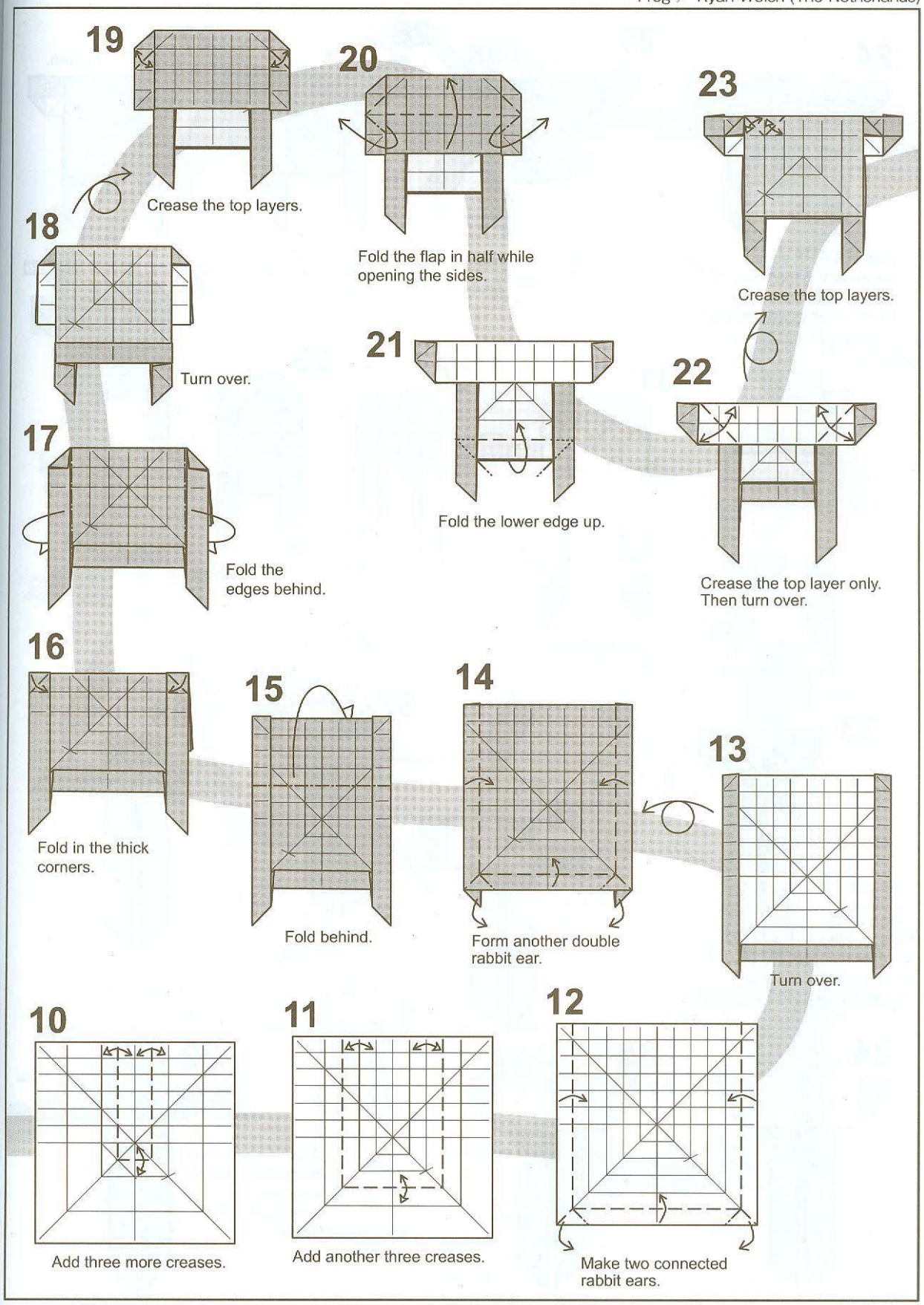


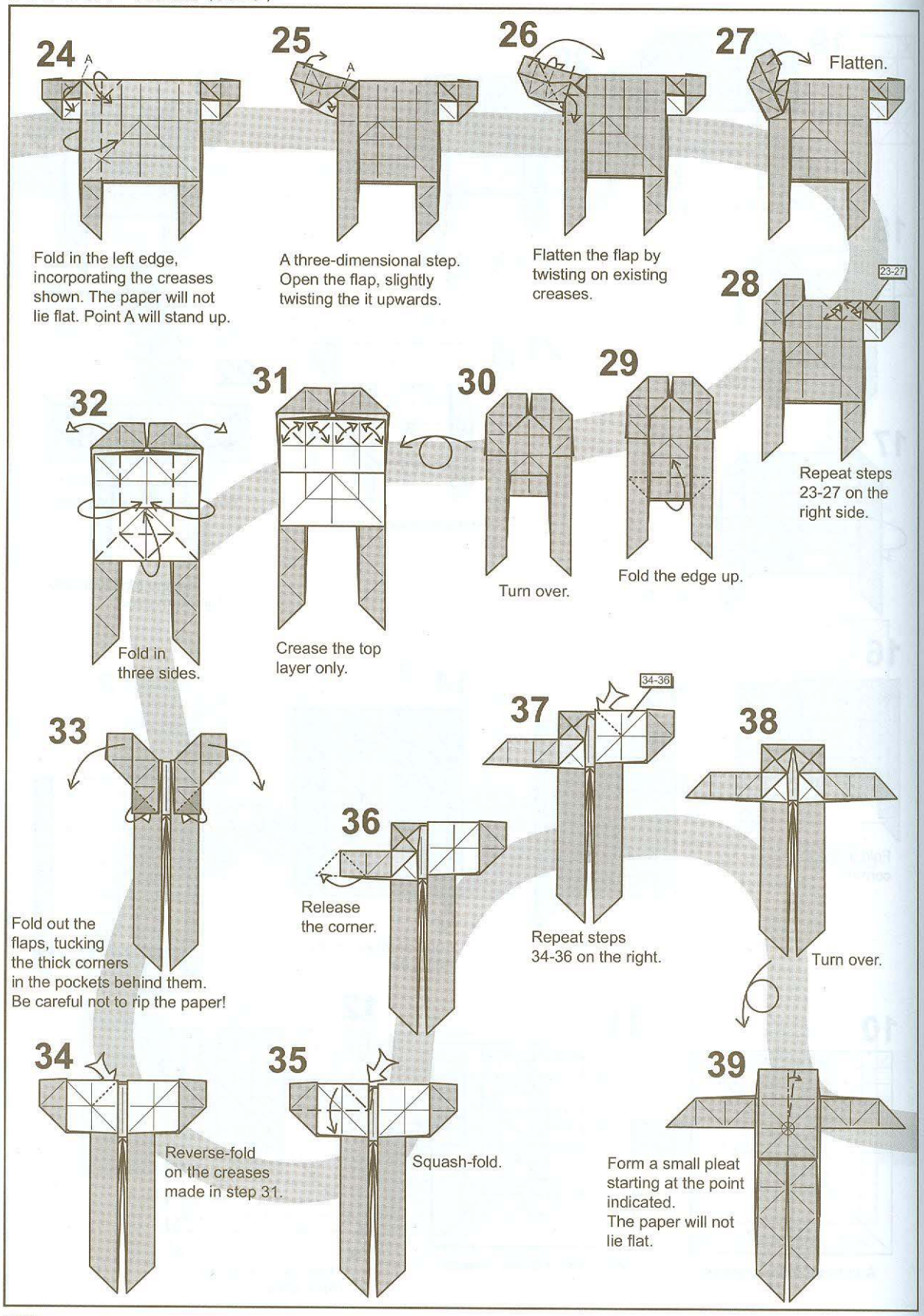
Add three more creases. Then turn over.

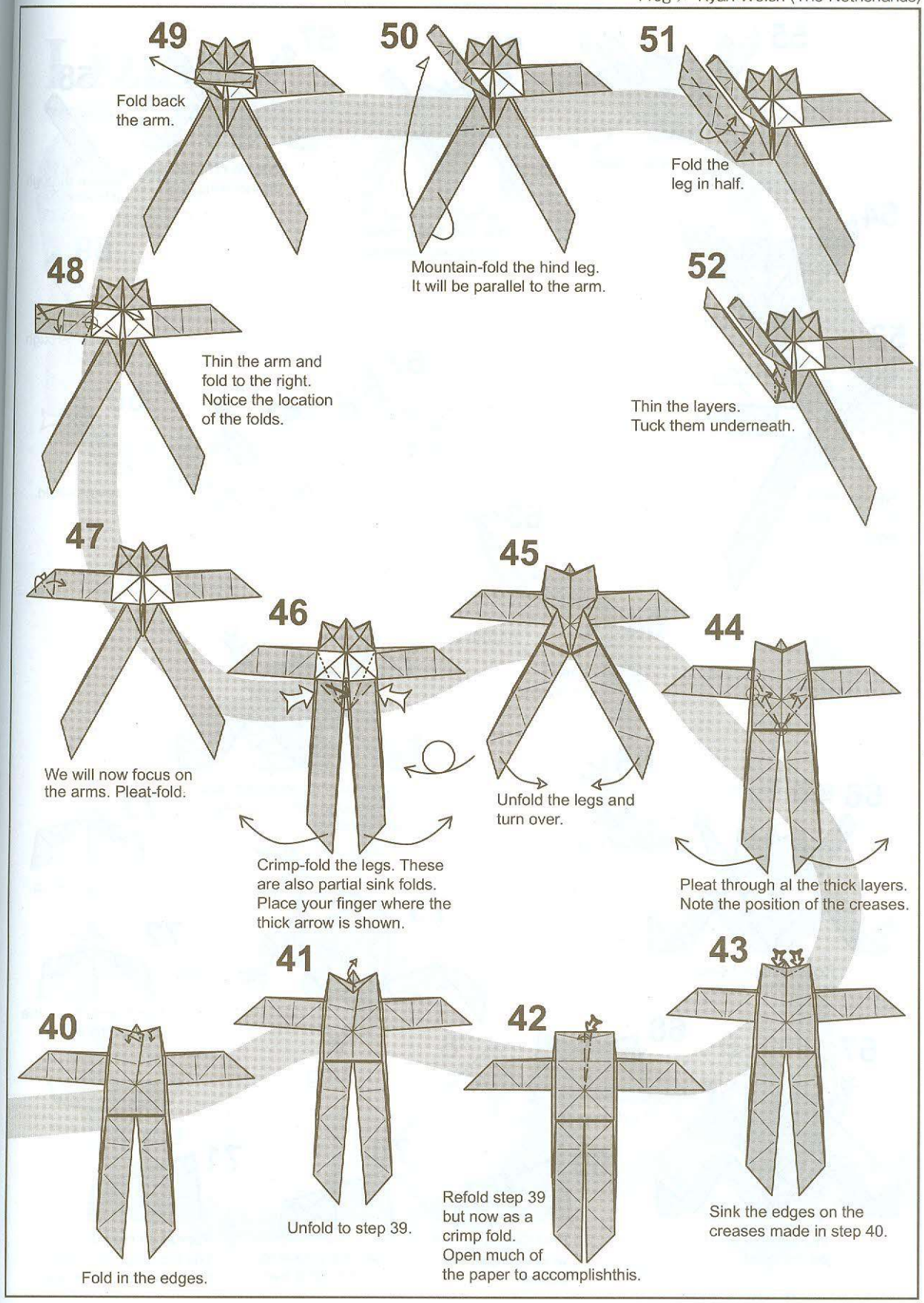
9

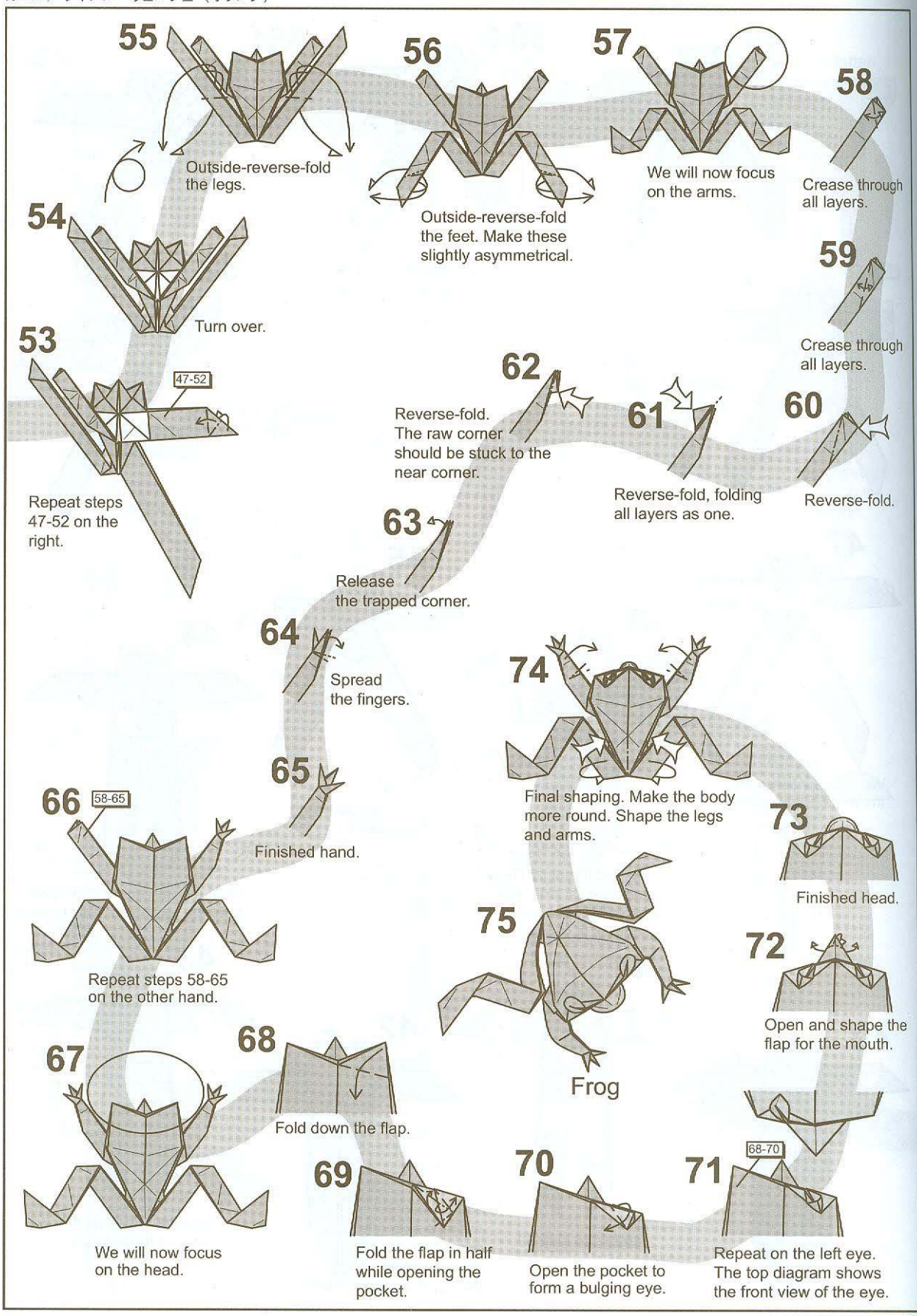


Fold and unfold three times.


19
Crease the top layers.
20
Fold the flap in half while opening the sides.
23
Crease the top layers.
18
Turn over.
21
Fold the lower edge up.
22
Crease the top layer only. Then turn over.
17
Fold the edges behind.
16
Fold in the thick corners.
15
Fold behind.
14
Form another double rabbit ear.
13
Turn over.
10
Add three more creases.
11
Add another three creases.
12
Make two connected rabbit ears.


24
A
Fold in the left edge, incorporating the creases shown. The paper will not lie flat. Point A will stand up.
25
A
A three-dimensional step. Open the flap, slightly twisting the it upwards.
26
Flatten the flap by twisting on existing creases.
27
Flatten.
28
23-27
Repeat steps 23-27 on the right side.
29
Fold the edge up.
30
Turn over.
31
Crease the top layer only.
32
Fold in three sides.
33
Fold out the flaps, tucking the thick corners in the pockets behind them. Be careful not to rip the paper!
34
Reverse-fold on the creases made in step 31.
35
Squash-fold.
36
Release the corner.
37
34-36
Repeat steps 34-36 on the right.
38
Turn over.
39
Form a small pleat starting at the point indicated. The paper will not lie flat.

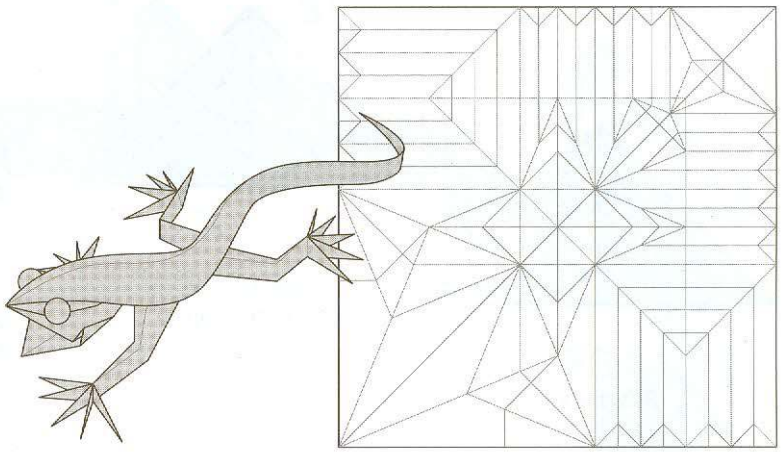

49
Fold back the arm.
50
Mountain-fold the hind leg. It will be parallel to the arm.
51
Fold the leg in half.
48
Thin the arm and fold to the right. Notice the location of the folds.
52
Thin the layers. Tuck them underneath.
47
We will now focus on the arms. Pleat-fold.
46
Crimp-fold the legs. These are also partial sink folds. Place your finger where the thick arrow is shown.
45
Unfold the legs and turn over.
44
Pleat through al the thick layers. Note the position of the creases.
40
Fold in the edges.
41
Unfold to step 39.
42
Refold step 39 but now as a crimp fold. Open much of the paper to accomplishthis.
43
Sink the edges on the creases made in step 40.


55
Outside-reverse-fold the legs.
56
Outside-reverse-fold the feet. Make these slightly asymmetrical.
57
We will now focus on the arms.
58
Crease through all layers.
54
Turn over.
59
Crease through all layers.
53
47-52
Repeat steps 47-52 on the right.
62
Reverse-fold. The raw corner should be stuck to the near corner.
61
Reverse-fold, folding all layers as one.
60
Reverse-fold.
63
Release the trapped corner.
64
Spread the fingers.
74
Final shaping. Make the body more round. Shape the legs and arms.
65
Finished hand.
66
58-65
Repeat steps 58-65 on the other hand.
73
Finished head.
75
Frog
72
Open and shape the flap for the mouth.
67
We will now focus on the head.
68
Fold down the flap.
69
Fold the flap in half while opening the pocket.
70
Open the pocket to form a bulging eye.
71
68-70
Repeat on the left eye. The top diagram shows the front view of the eye.

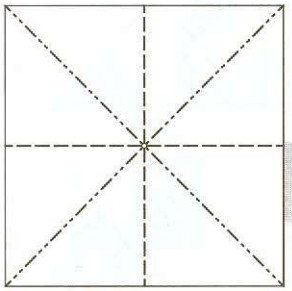
Lizard

Version 2.3

Model & Diagrams by Jason Ku
Designed: ©2011/07/05
Diagrammed: ©2012/03/23

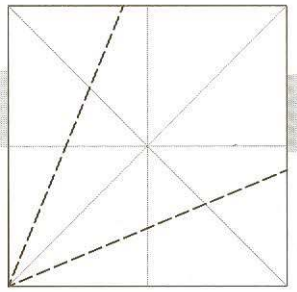


1



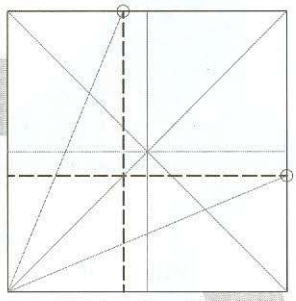
Start white side up.
Fold and unfold.

2



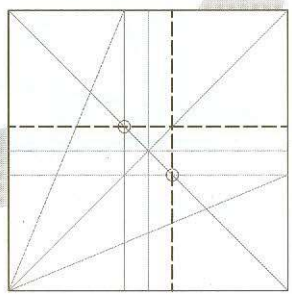
Fold and unfold.

3



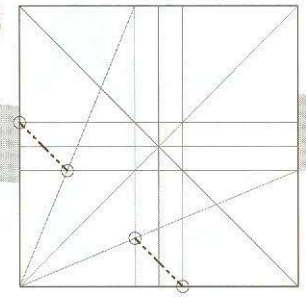
Fold and unfold.

4



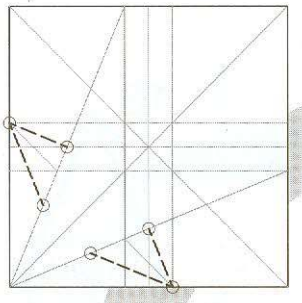
Fold and unfold.

5



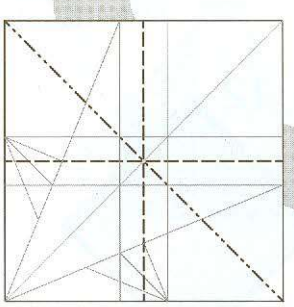
Fold and unfold.

6



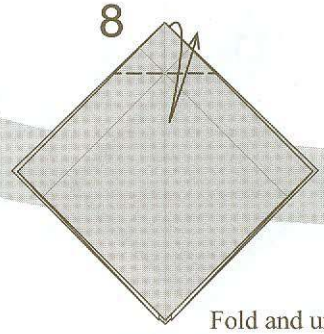
Fold and unfold.

7



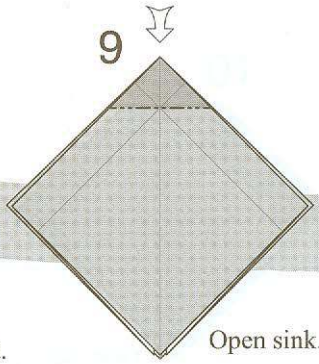
Collapse.

8

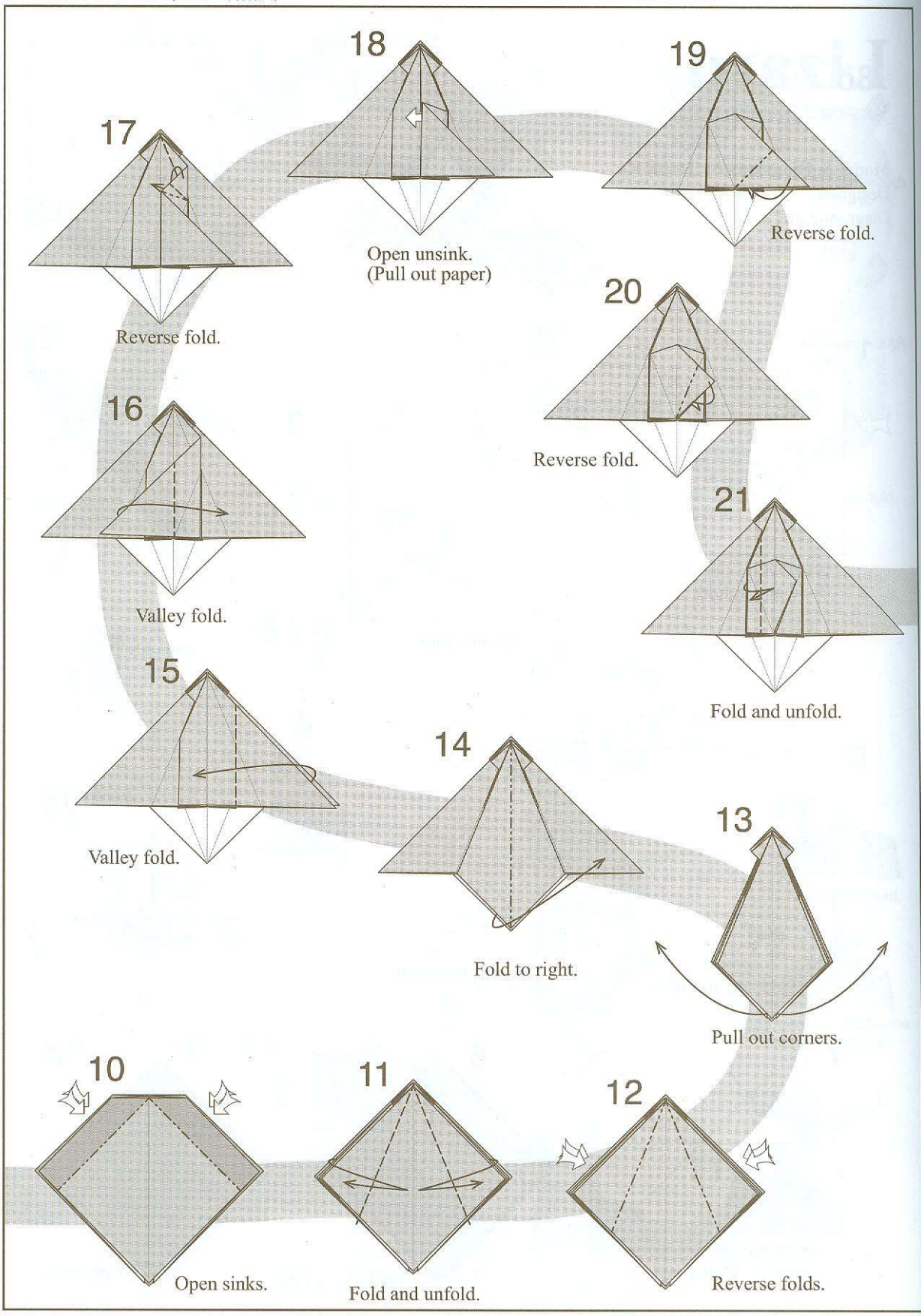


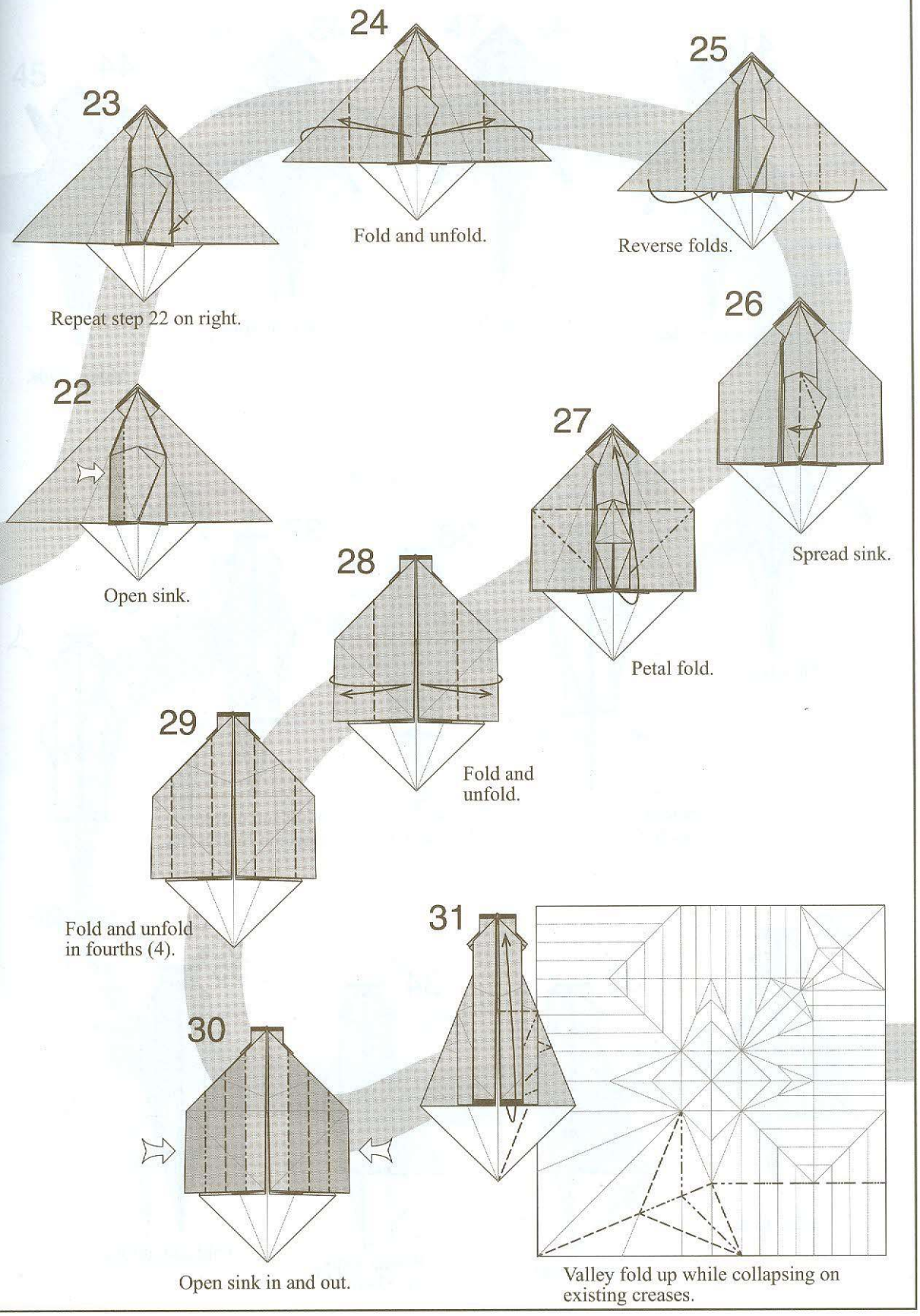
Fold and unfold.

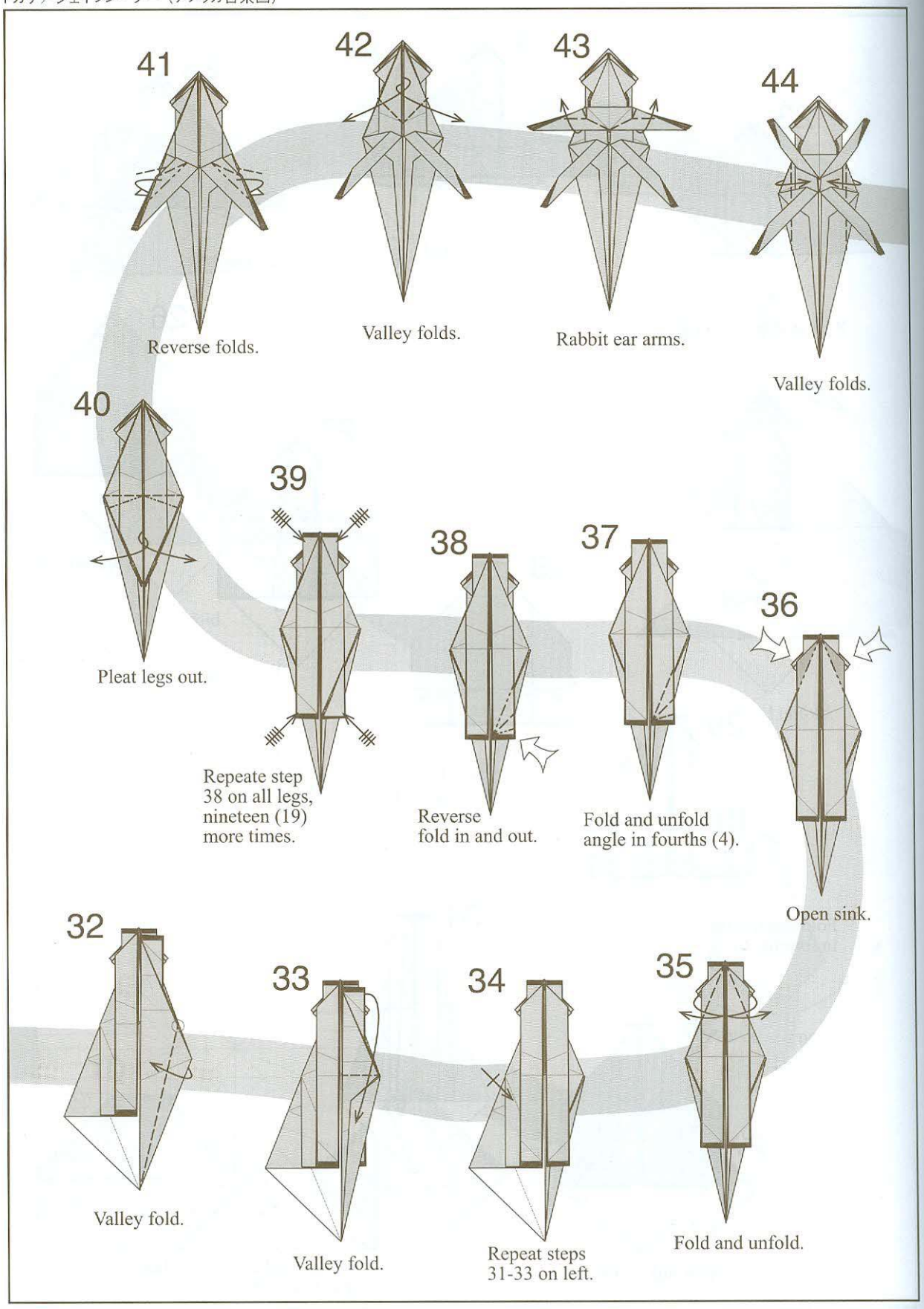
9

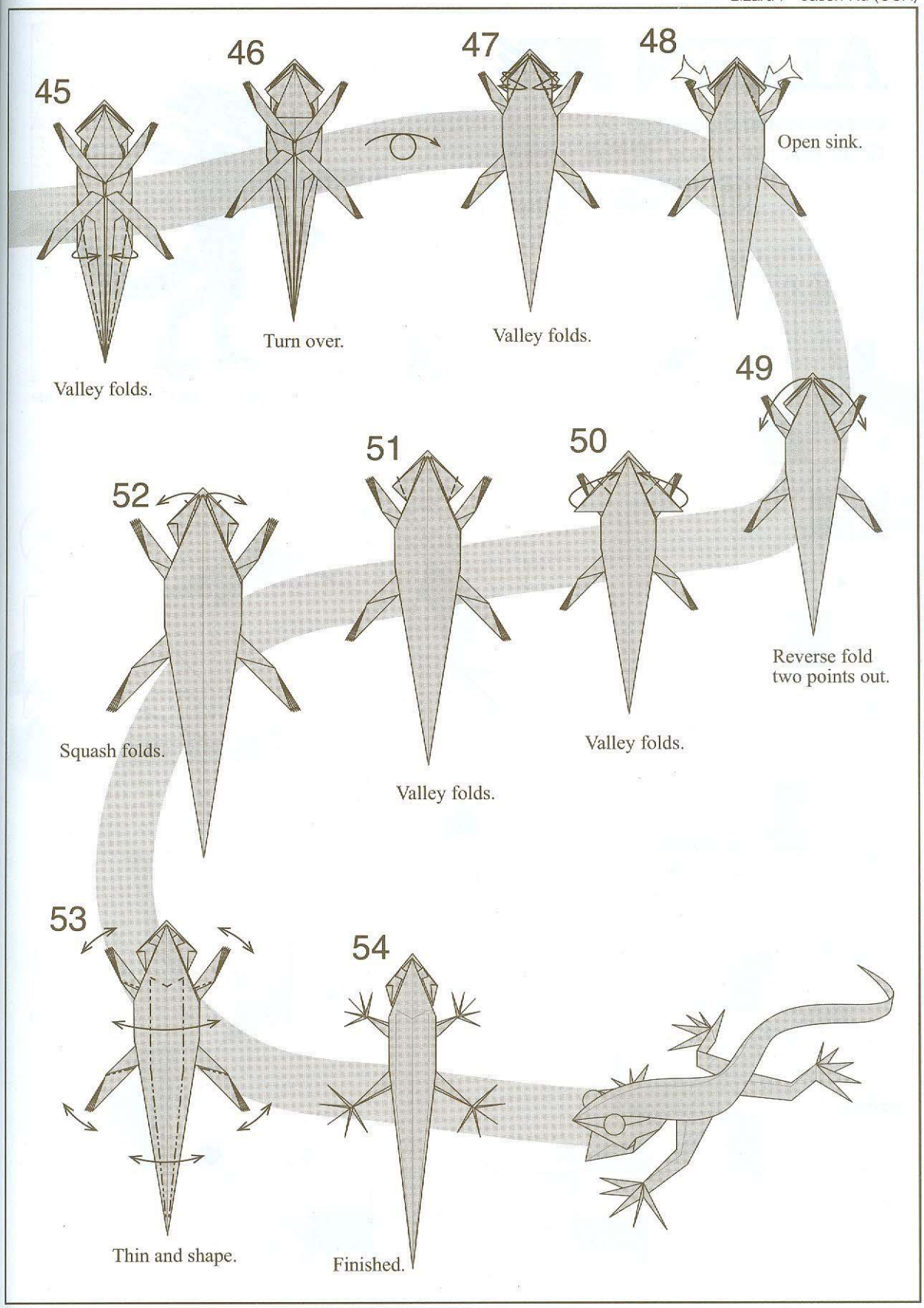


Open sink.


18
Open unsink.
(Pull out paper)
19
Reverse fold.
17
Reverse fold.
20
Reverse fold.
16
Valley fold.
21
Fold and unfold.
15
Valley fold.
14
Fold to right.
13
Pull out corners.
10
Open sinks.
11
Fold and unfold.
12
Reverse folds.


23
Repeat step 22 on right.
24
Fold and unfold.
25
Reverse folds.
26
Spread sink.
27
Petal fold.
28
Fold and unfold.
29
Fold and unfold in fourths (4).
30
Open sink in and out.
31
Valley fold up while collapsing on existing creases.
22
Open sink.

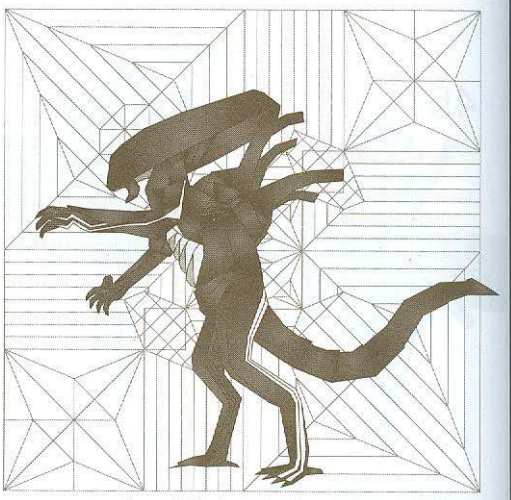

41
Reverse folds.
42
Valley folds.
43
Rabbit ear arms.
44
Valley folds.
40
Pleat legs out.
39
Repeate step 38 on all legs, nineteen (19) more times.
38
Reverse fold in and out.
37
Fold and unfold angle in fourths (4).
36
Open sink.
32
Valley fold.
33
Valley fold.
34
Repeat steps 31-33 on left.
35
Fold and unfold.


45
Valley folds.
46
Turn over.
47
Valley folds.
48
Open sink.
49
Reverse fold
two points out.
50
Valley folds.
51
Valley folds.
52
Squash folds.
53
Thin and shape.
54
Finished.

ALIEN 異形

Designed and diagramed by :
Chan Pak Hei , Kade 陳柏熹 (Hong Kong)

Kade Chan Origami Studio :
http://kadechan.blogspot.hk



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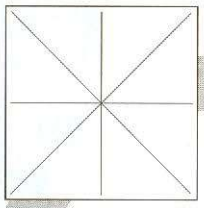

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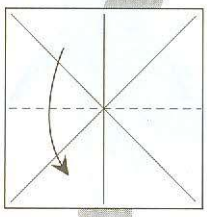

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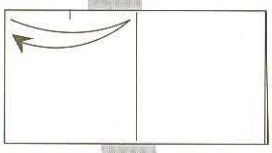

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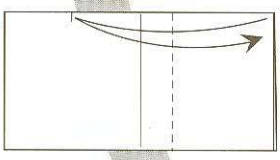

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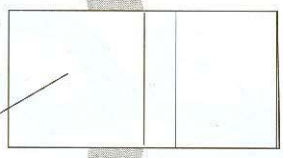

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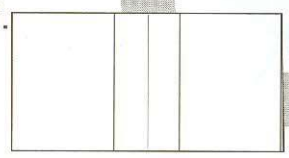

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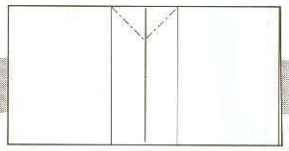

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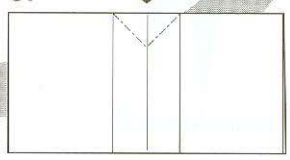

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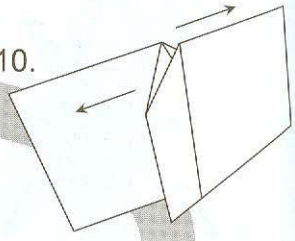

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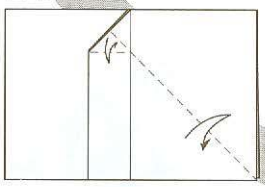

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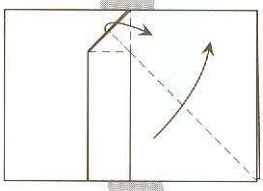

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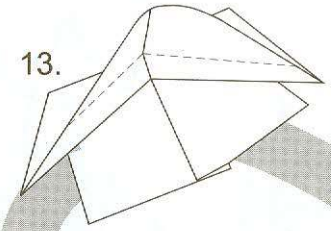

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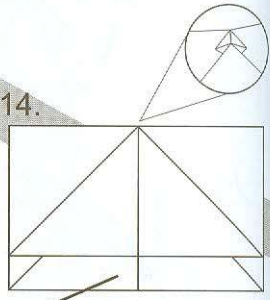
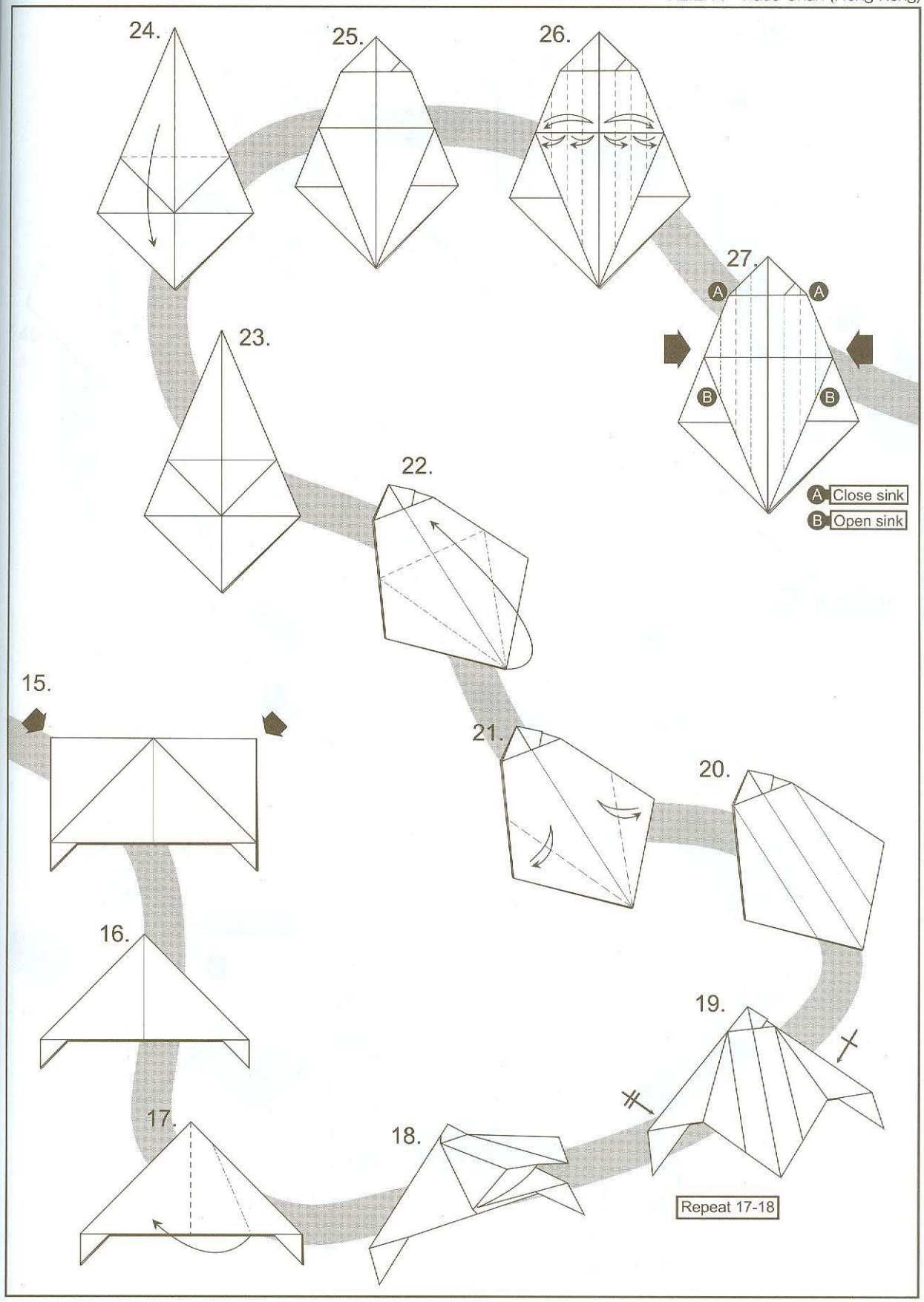
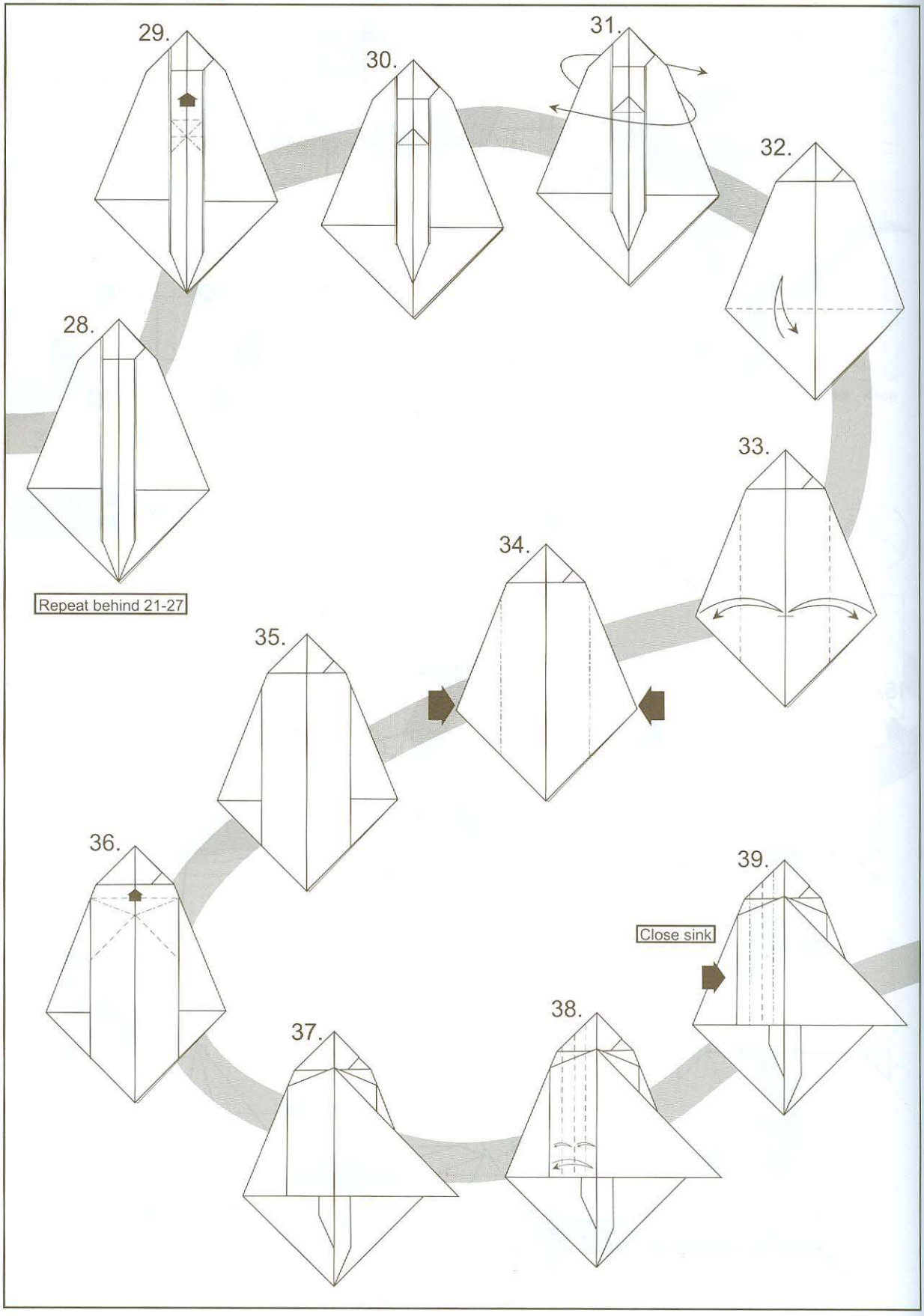
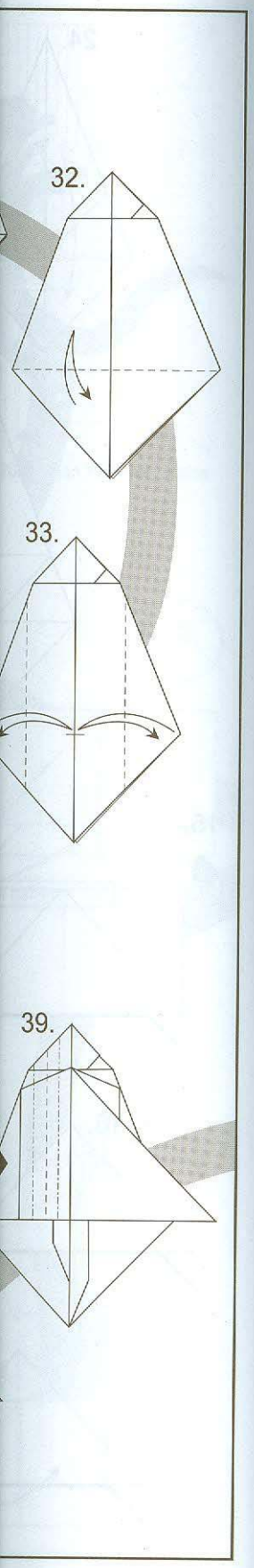
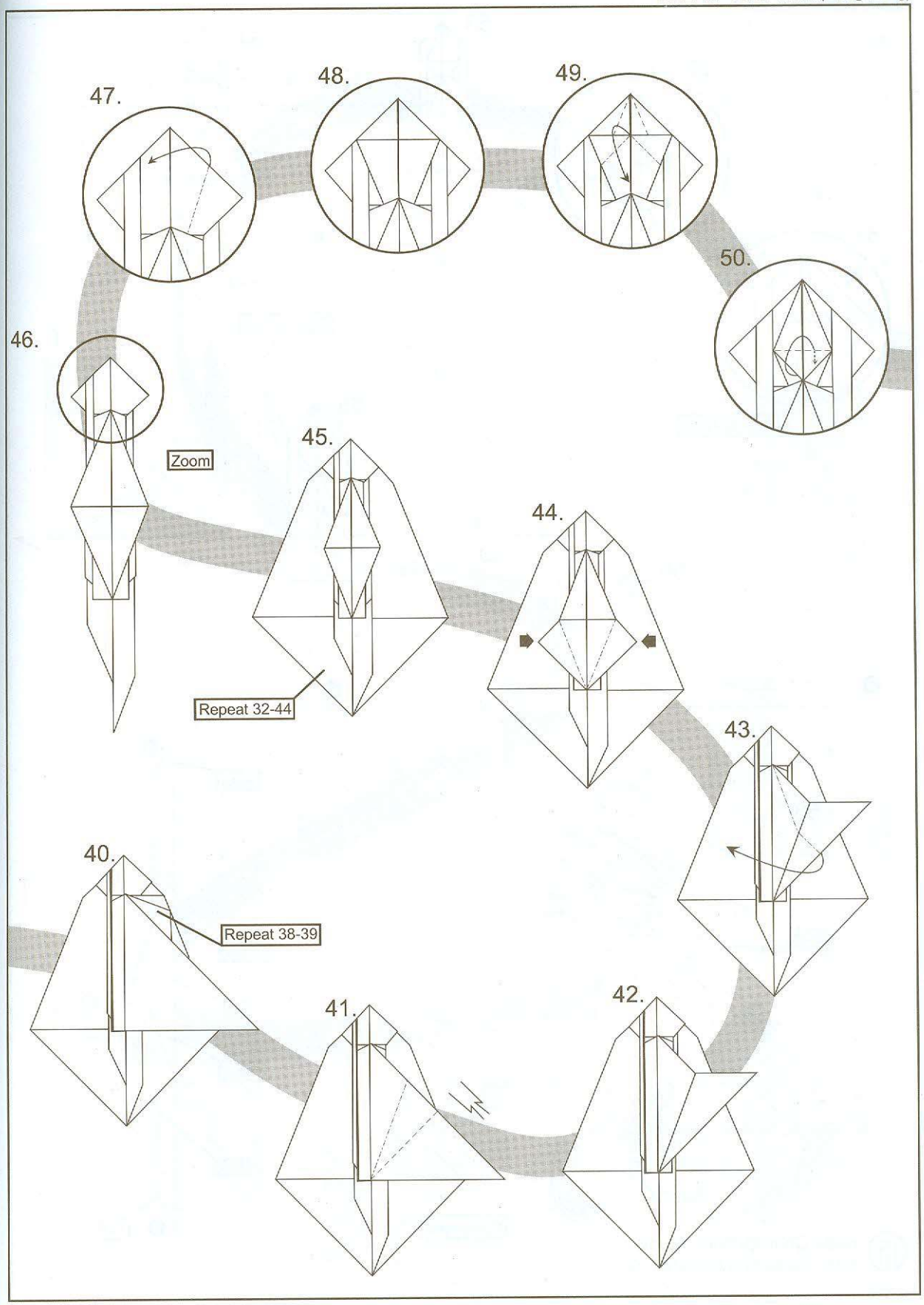
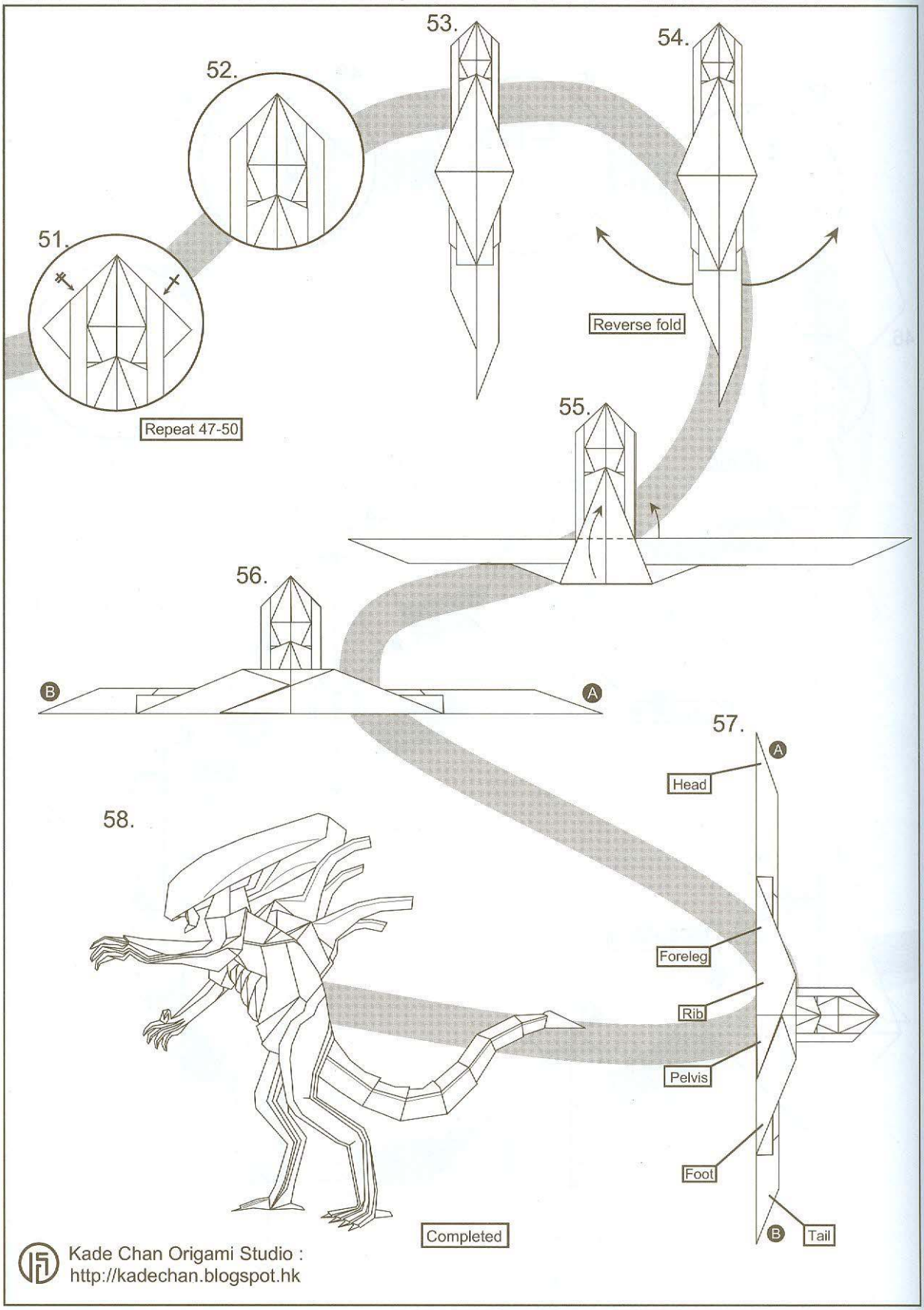



24.
25.
26.
27.
A
A
B
B
A Close sink
B Open sink
23.
22.
15.
21.
20.
16.
19.
17.
18.
Repeat 17-18


29.
30.
31.
32.
28.
33.
Repeat behind 21-27
34.
35.
36.
39.
Close sink
38.
37.

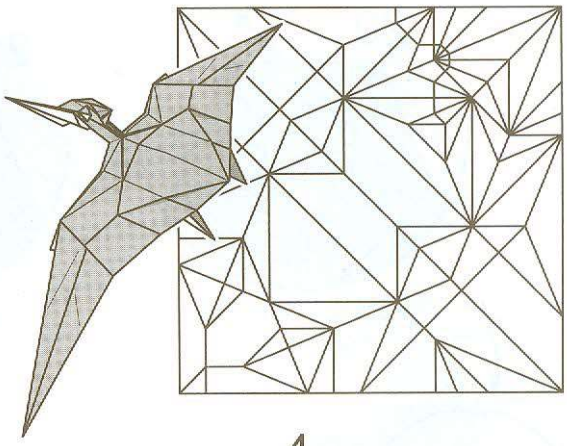

32.
33.
39.


47.
48.
49.
50.
46.
Zoom
45.
44.
Repeat 32-44
43.
40.
Repeat 38-39
41.
42.


51.
52.
53.
54.
Reverse fold
Repeat 47-50
55.
56.
B
A
57.
A
Head
58.
Foreleg
Rib
Pelvis
Foot
B
Tail
Completed
Kade Chan Origami Studio :
http://kadechan.blogspot.hk

YOUNG PTERANODON

Creator: Nguyễn Hùng Cường
Designed: 02/09/2010
Paper size: 25x25 cm



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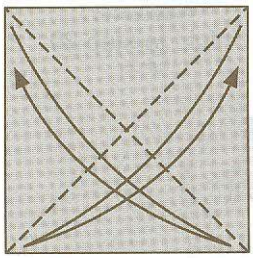
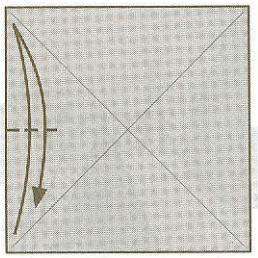


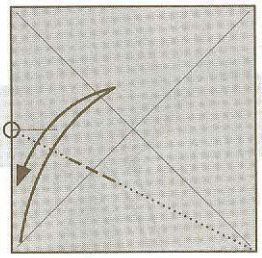
Color side up.
Fold and unfold.

2



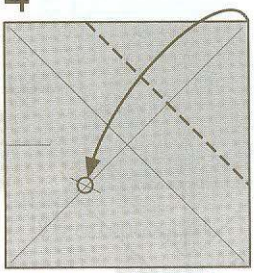
Make a pinch and unfold.

3



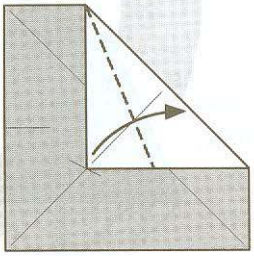
Make a pinch and unfold.

4



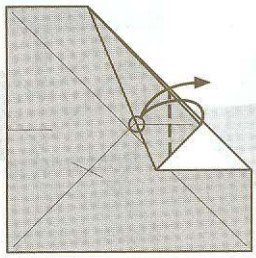
Fold the corner to the circled point.

5



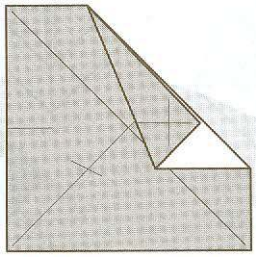
Bisect the angle.

6



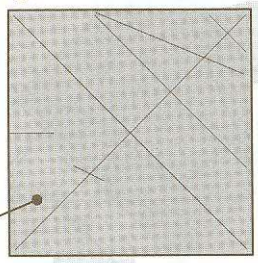
Fold and unfold.

7



Unfold everything.

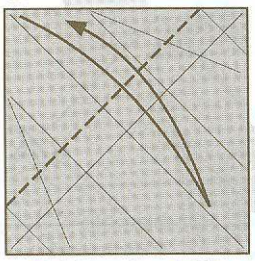
8



4-7

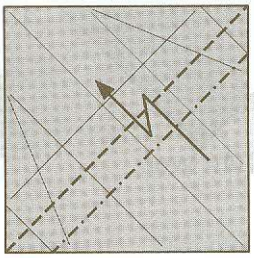
Repeat steps 4 to 7 on the other side.

9



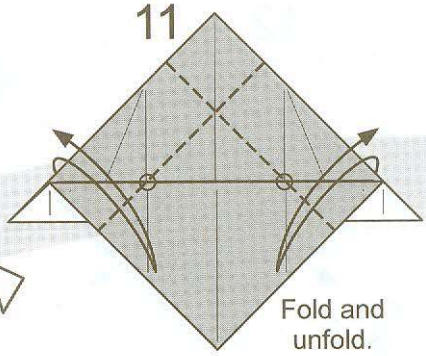
Fold and unfold.

10

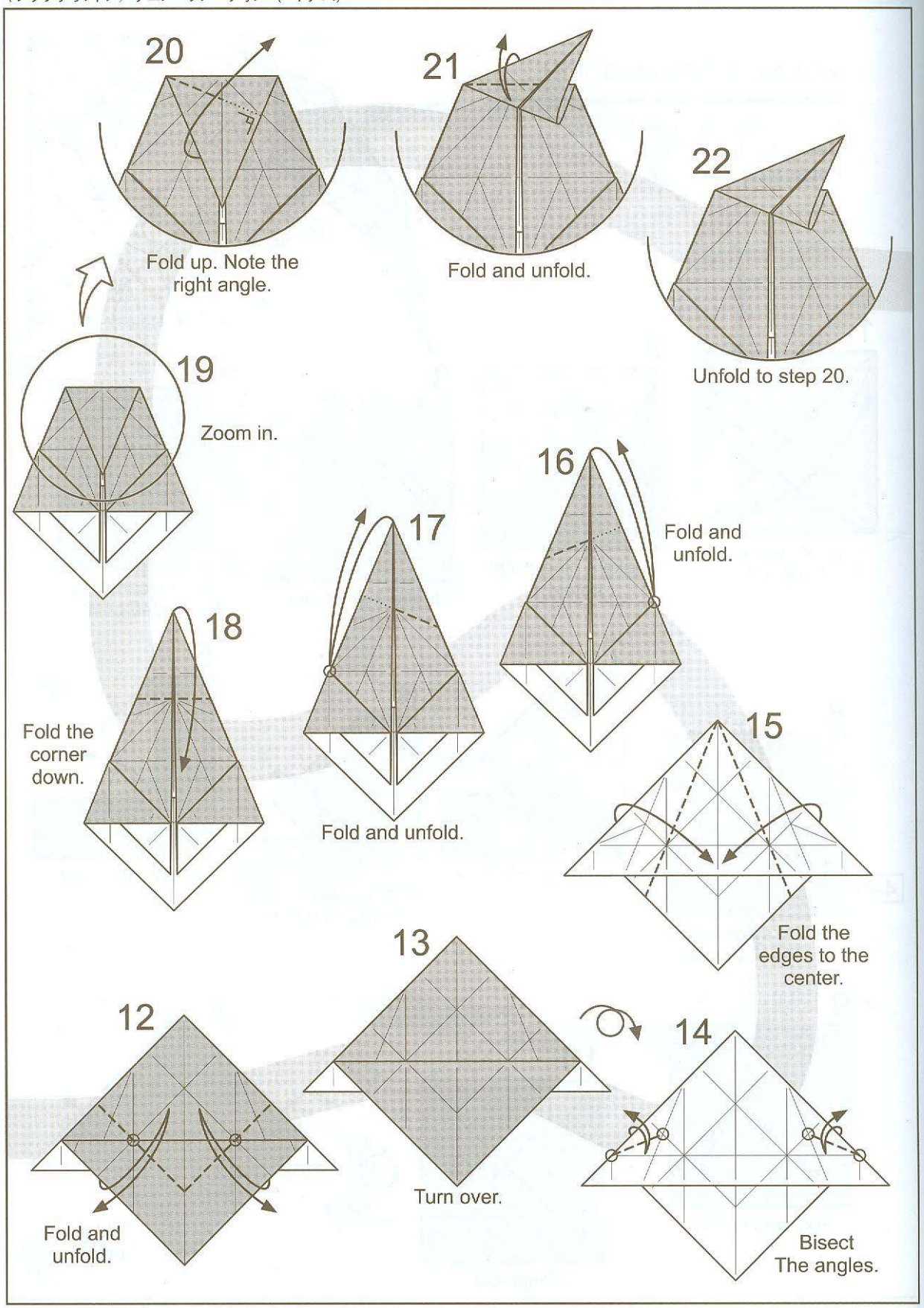


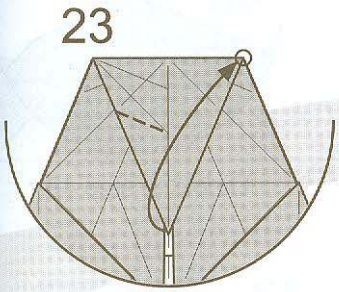
Pleat fold.

11

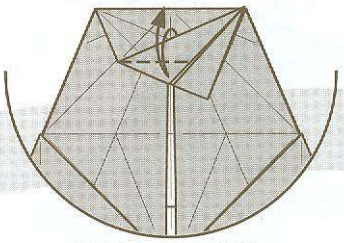


Fold and unfold.

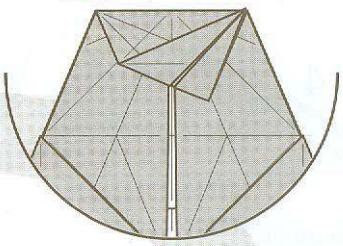

20
Fold up. Note the right angle.
21
Fold and unfold.
22
Unfold to step 20.
19
Zoom in.
16
Fold and unfold.
17
Fold and unfold.
18
Fold the corner down.
15
Fold the edges to the center.
13
Turn over.
12
Fold and unfold.
14
Bisect The angles.



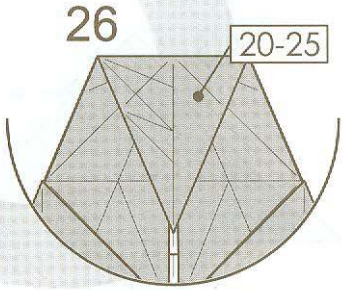
Fold the corner to the circled point.



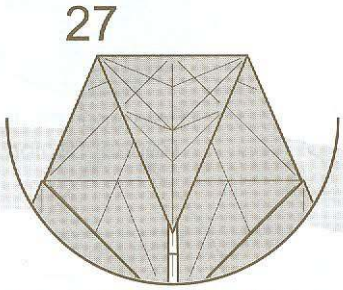
Fold and unfold.



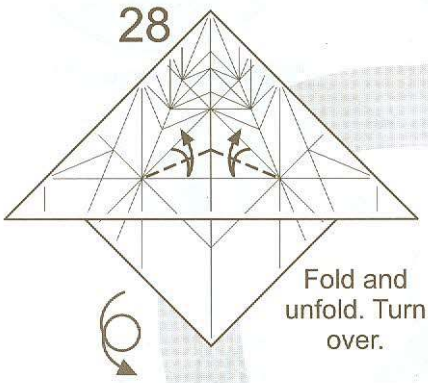
Unfold to step 23.



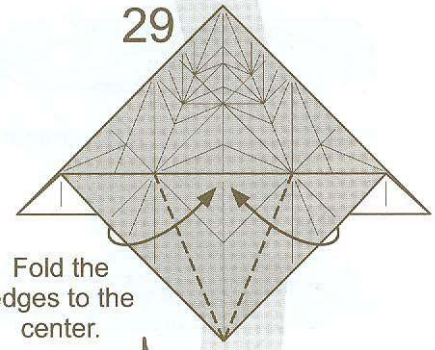
Repeat step 20 to 25 on the right.



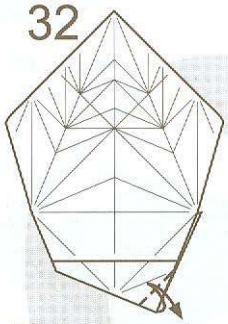
Unfold to step 15.



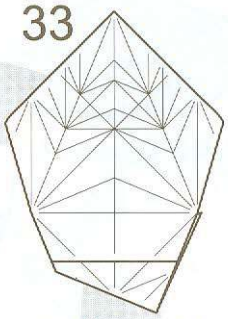
Fold and unfold. Turn over.



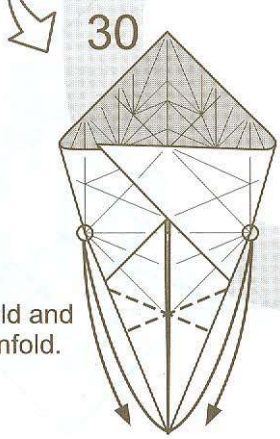
Fold the edges to the center.



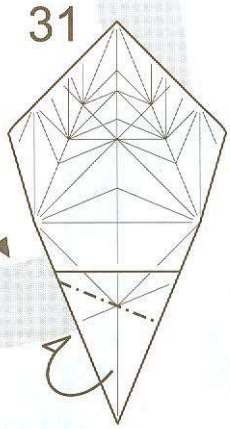
Bisect the angle.



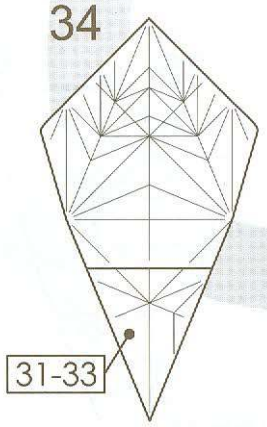
Unfold to step 31.



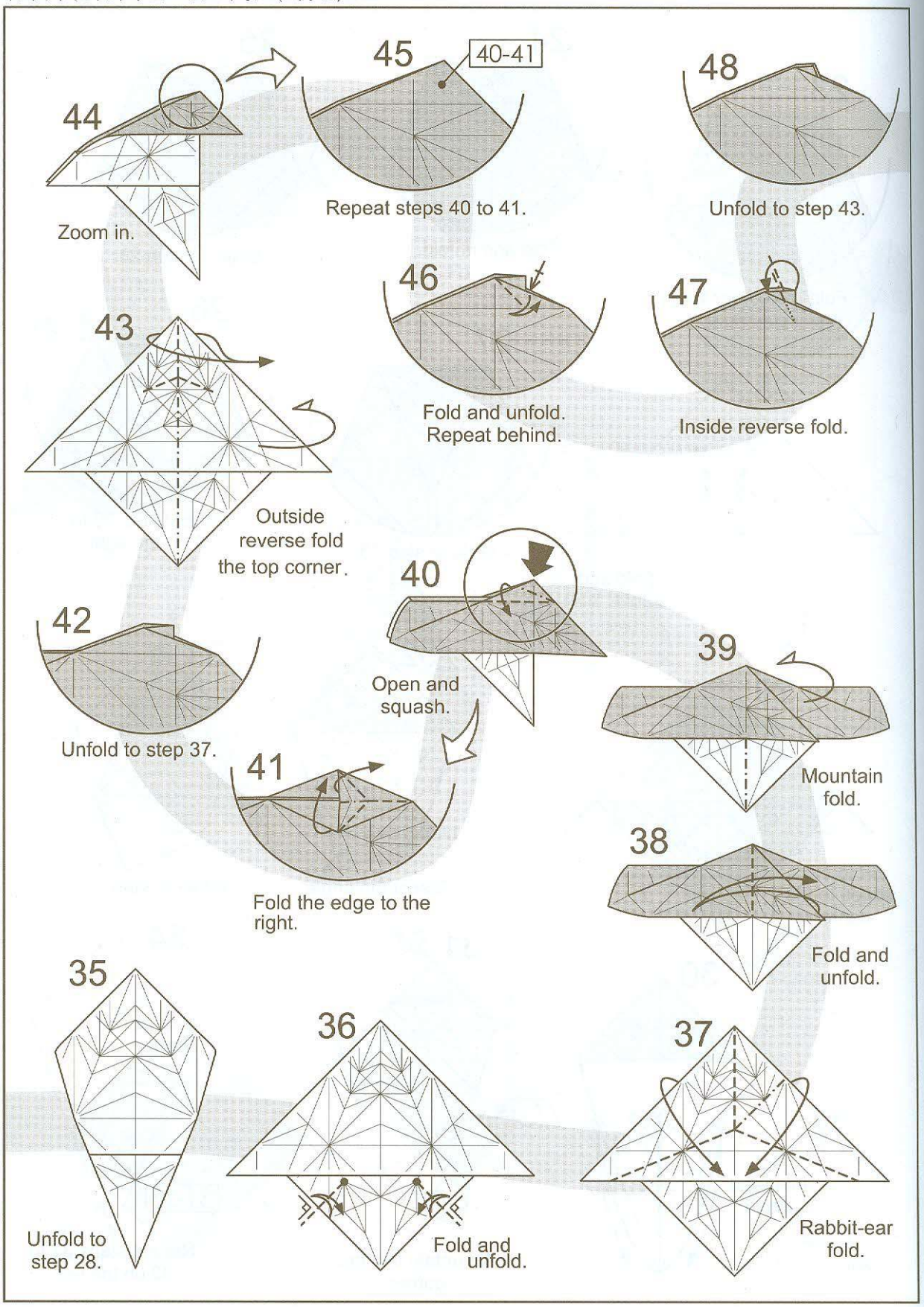
Fold and unfold.

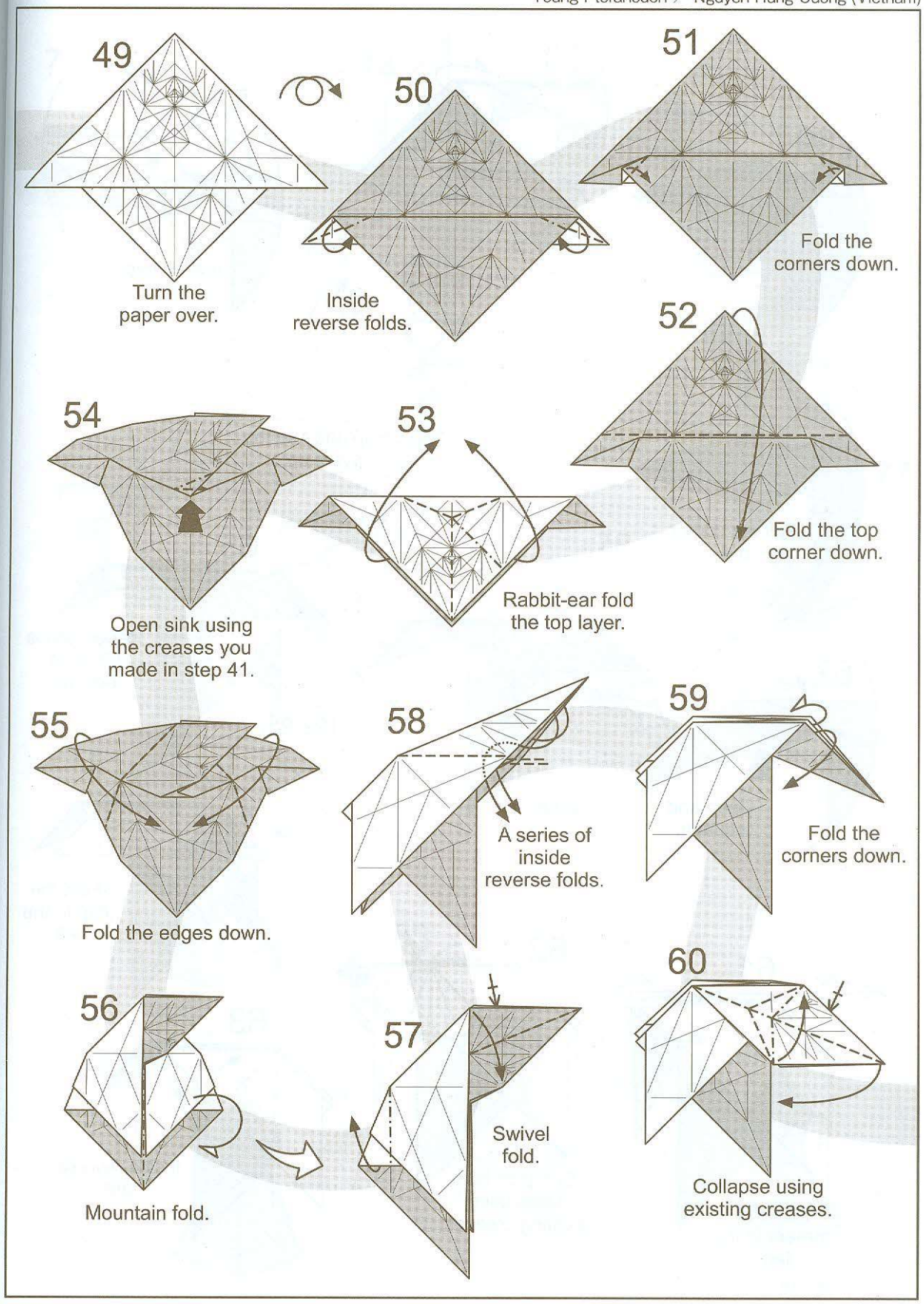


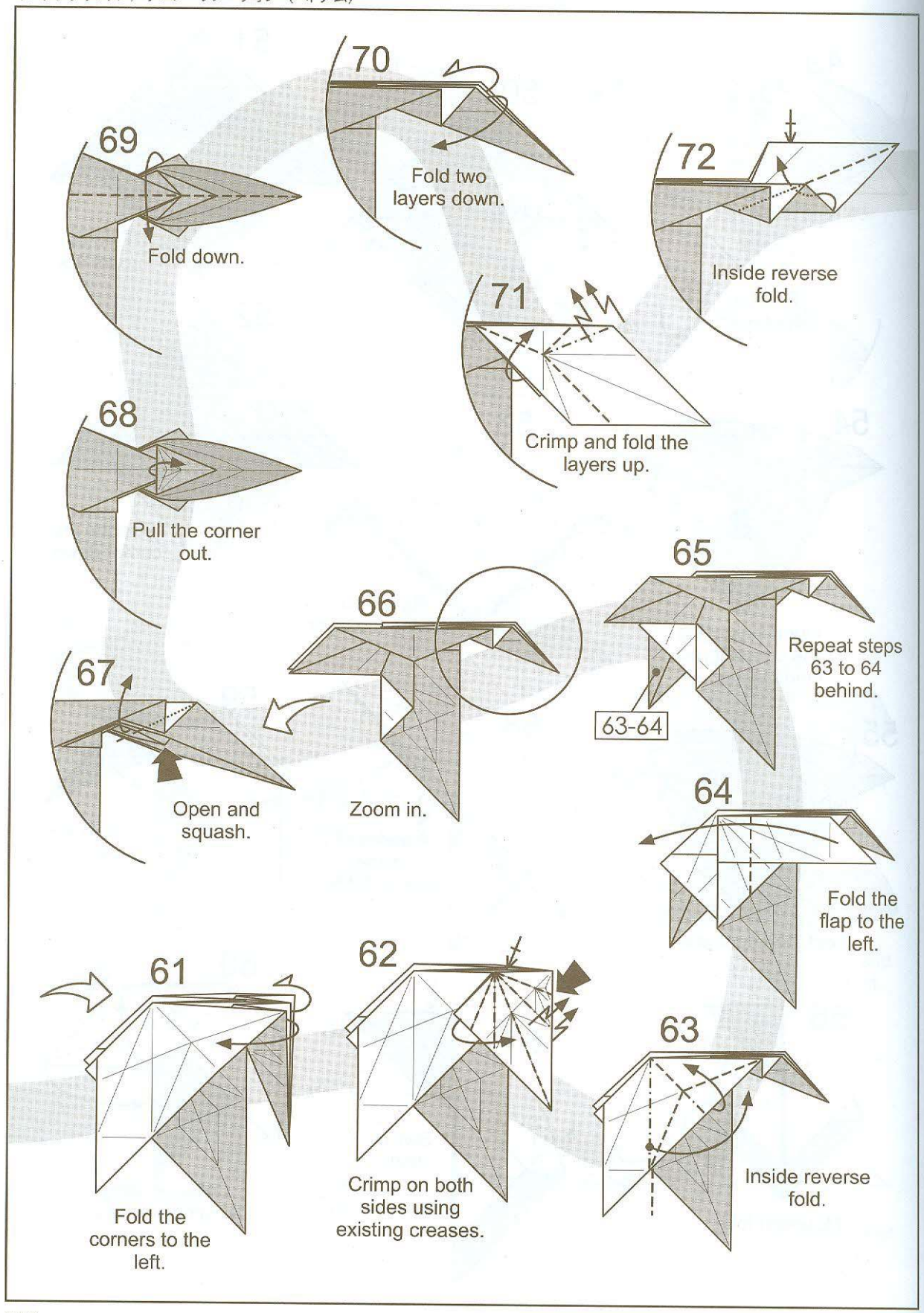
Mountain fold the corner.

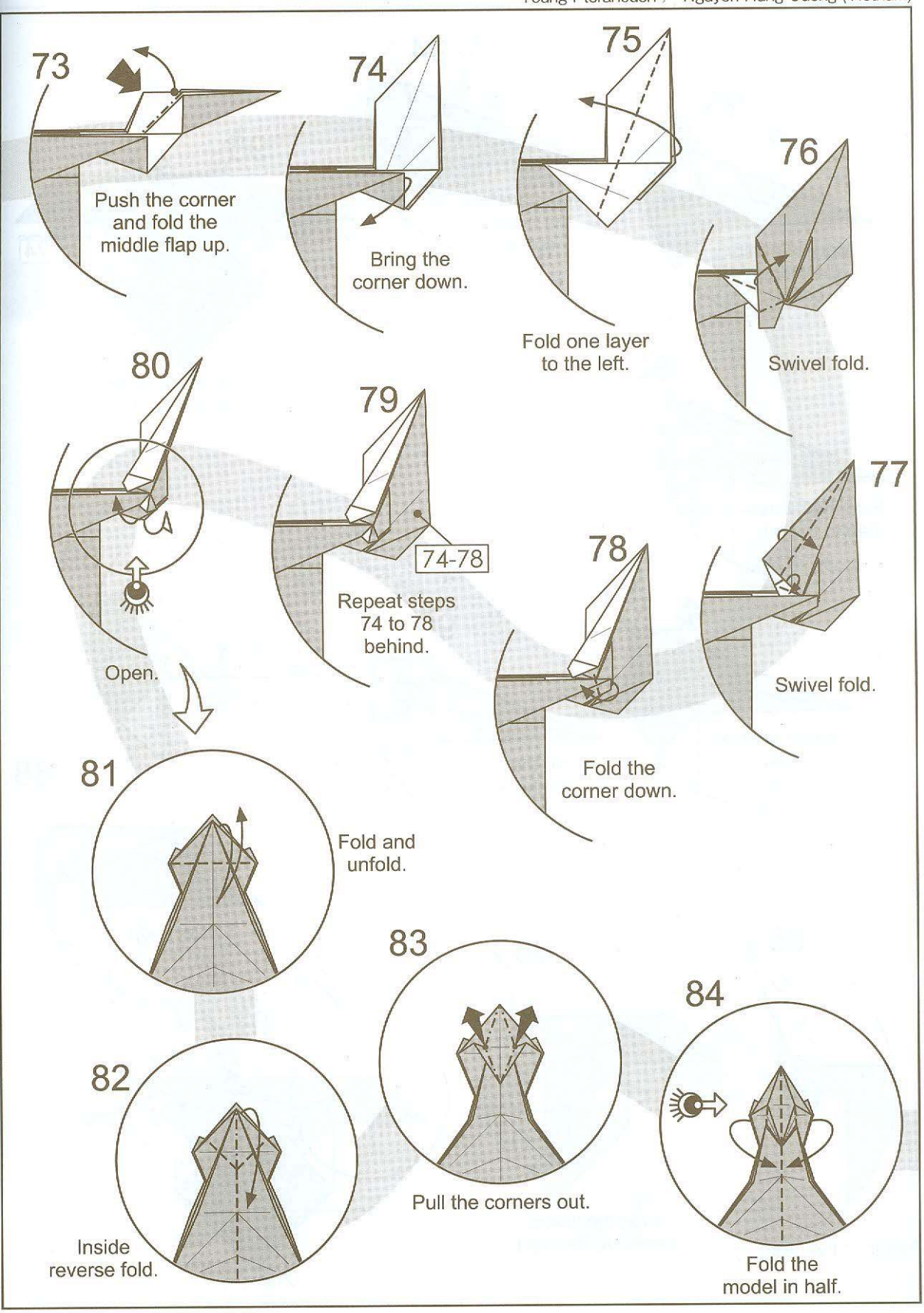


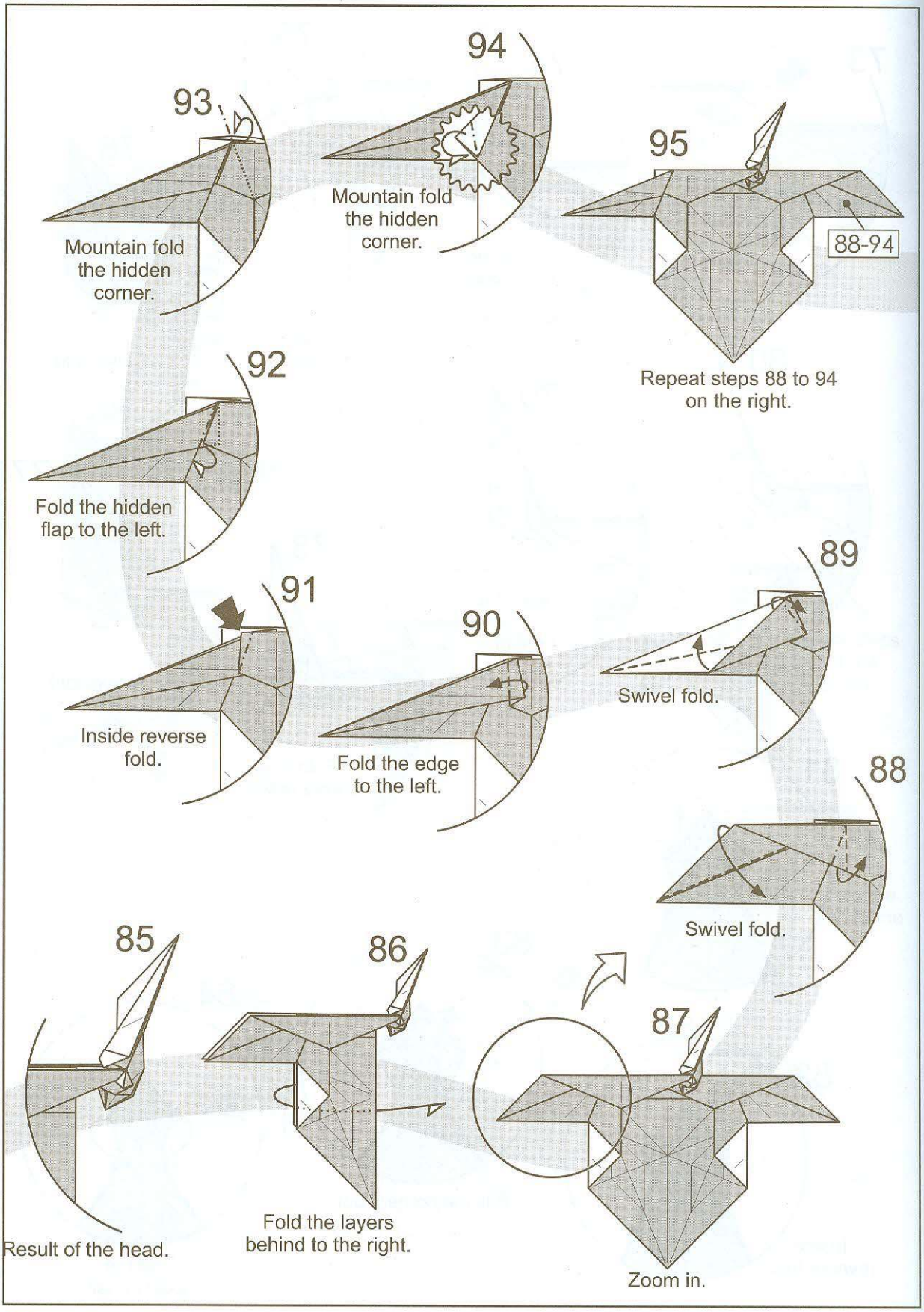
Repeat steps 31 to 33 on the left.

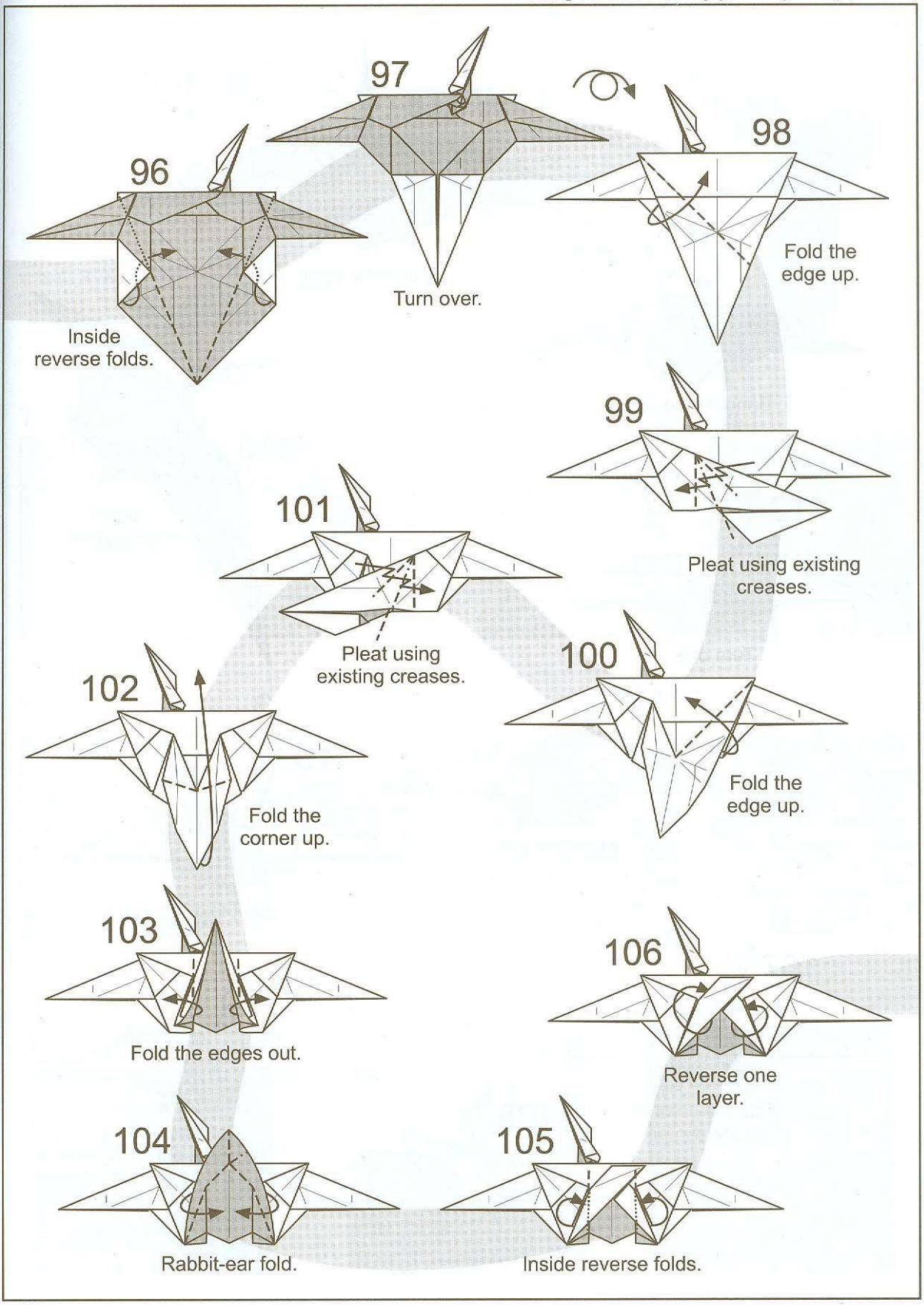

44
Zoom in.
45
40-41
Repeat steps 40 to 41.
48
Unfold to step 43.
46
Fold and unfold.
Repeat behind.
47
Inside reverse fold.
43
Outside
reverse fold
the top corner.
40
Open and
squash.
42
Unfold to step 37.
39
Mountain
fold.
41
Fold the edge to the
right.
38
Fold and
unfold.
35
Unfold to
step 28.
36
Fold and
unfold.
37
Rabbit-ear
fold.

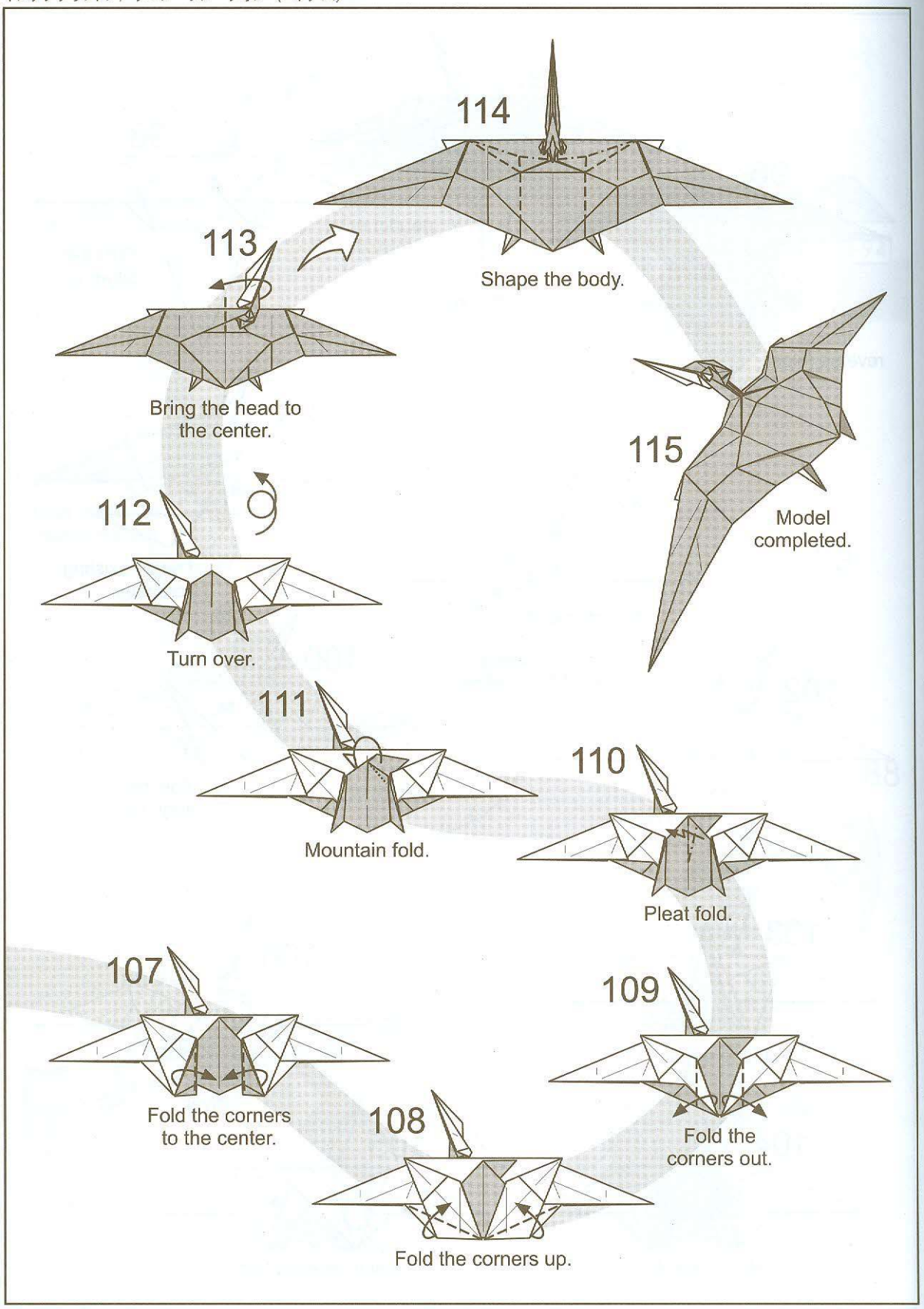

49
Turn the paper over.
50
Inside reverse folds.
51
Fold the corners down.
52
Fold the top corner down.
53
Rabbit-ear fold the top layer.
54
Open sink using the creases you made in step 41.
55
Fold the edges down.
56
Mountain fold.
57
Swivel fold.
58
A series of inside reverse folds.
59
Fold the corners down.
60
Collapse using existing creases.


69
Fold down.
70
Fold two layers down.
72
Inside reverse fold.
71
Crimp and fold the layers up.
68
Pull the corner out.
65
Repeat steps 63 to 64 behind.
63-64
66
Zoom in.
67
Open and squash.
64
Fold the flap to the left.
61
Fold the corners to the left.
62
Crimp on both sides using existing creases.
63
Inside reverse fold.


73
Push the corner and fold the middle flap up.
74
Bring the corner down.
75
Fold one layer to the left.
76
Swivel fold.
77
Swivel fold.
78
Fold the corner down.
79
74-78
Repeat steps 74 to 78 behind.
80
Open.
81
Fold and unfold.
82
Inside reverse fold.
83
Pull the corners out.
84
Fold the model in half.

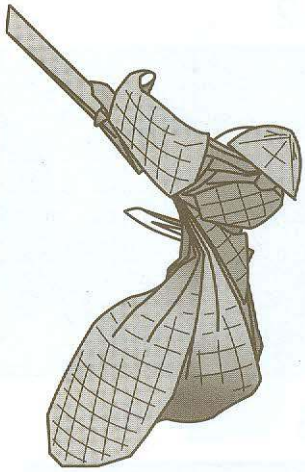

93
Mountain fold the hidden corner.
94
Mountain fold the hidden corner.
95
88-94
Repeat steps 88 to 94 on the right.
92
Fold the hidden flap to the left.
91
Inside reverse fold.
90
Fold the edge to the left.
89
Swivel fold.
88
Swivel fold.
85
Result of the head.
86
Fold the layers behind to the right.
87
Zoom in.


96
Inside reverse folds.
97
Turn over.
98
Fold the edge up.
99
Pleat using existing creases.
100
Fold the edge up.
101
Pleat using existing creases.
102
Fold the corner up.
103
Fold the edges out.
104
Rabbit-ear fold.
105
Inside reverse folds.
106
Reverse one layer.


114
Shape the body.
113
Bring the head to the center.
115
Model completed.
112
Turn over.
111
Mountain fold.
110
Pleat fold.
107
Fold the corners to the center.
109
Fold the corners out.
108
Fold the corners up.

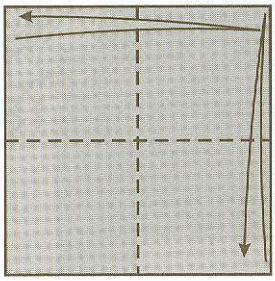
剣客 Swordman

創作・作図：ダンヴェトタン
Design - Diagram: Dang Viet Tan



ステップ１～１７では折り目の線を作ります。
Step 1~17: make crease lines

1



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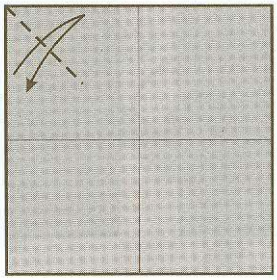

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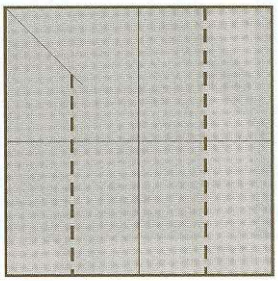

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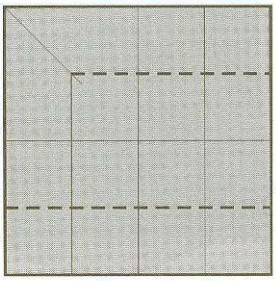

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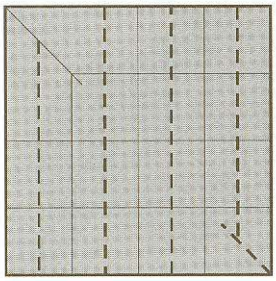

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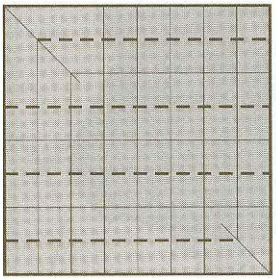

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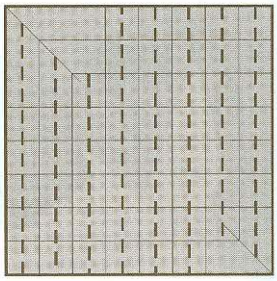

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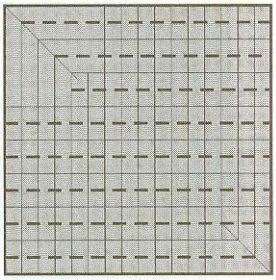

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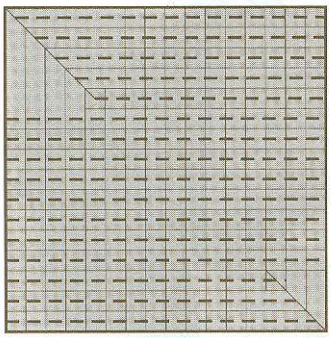

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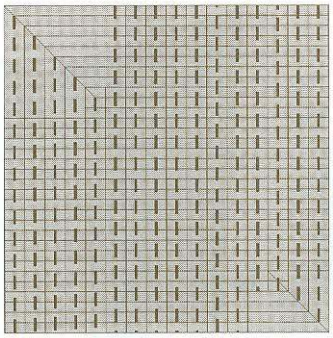

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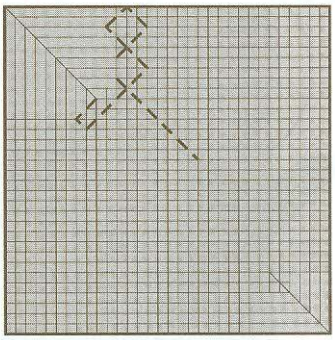

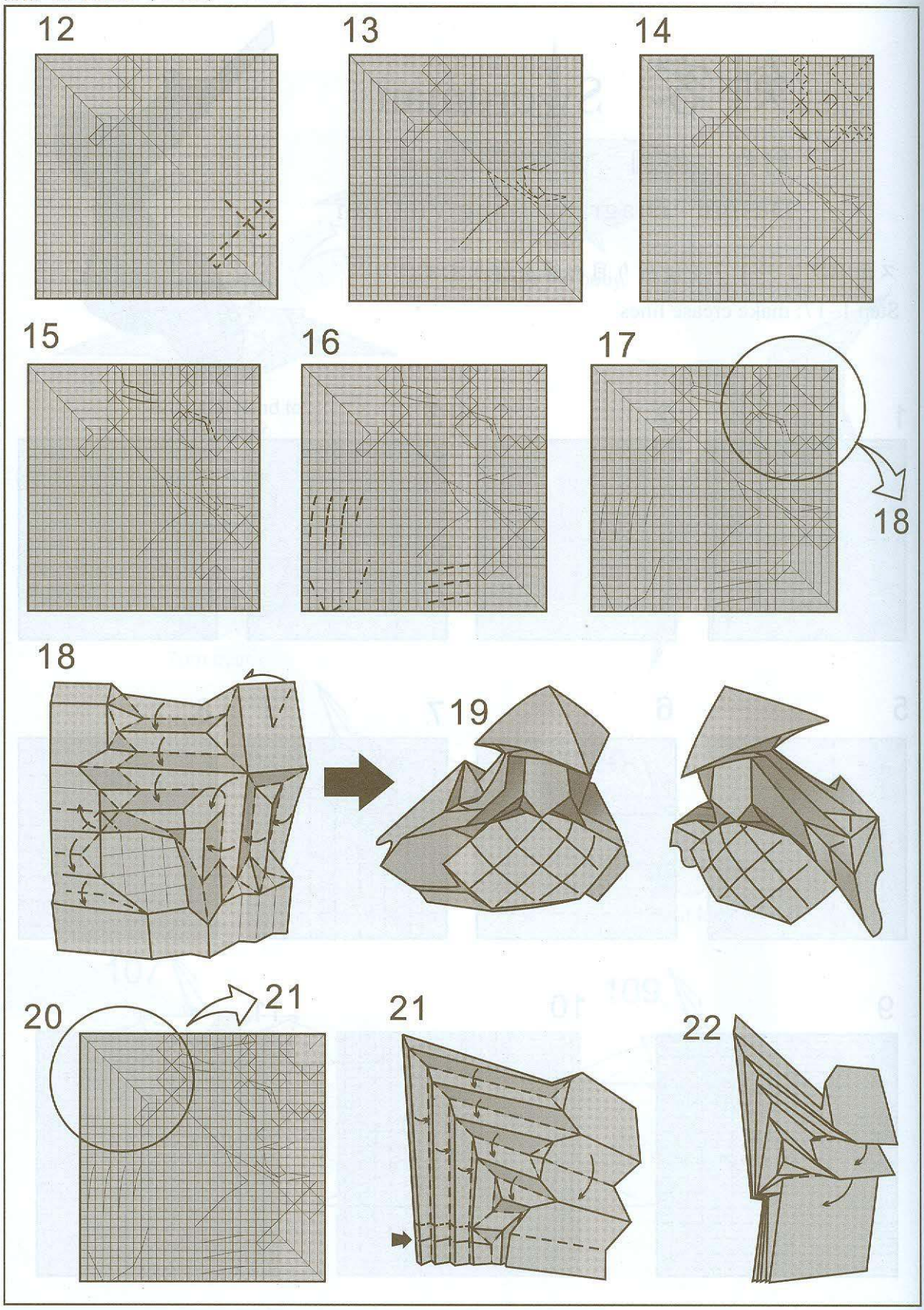
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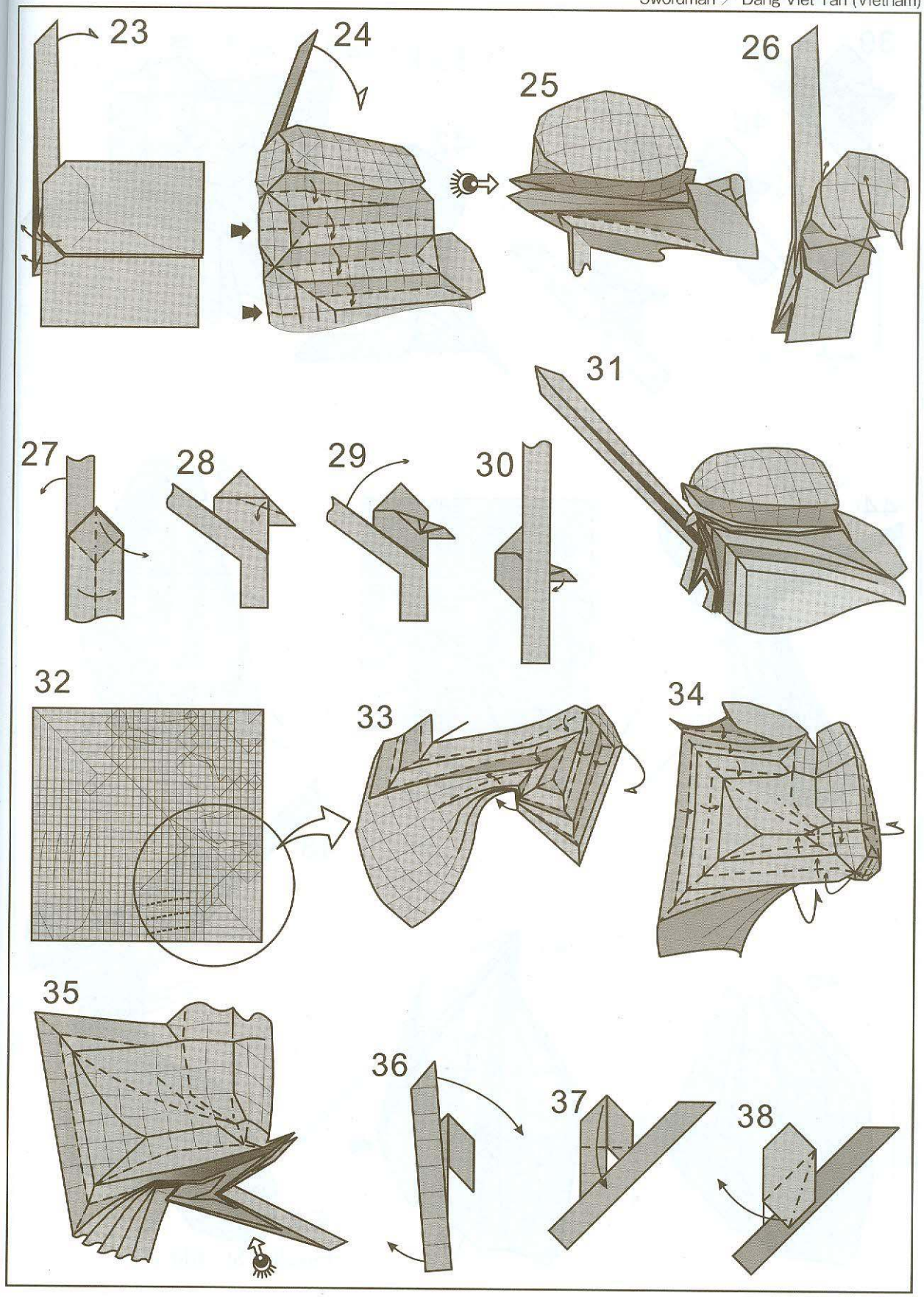
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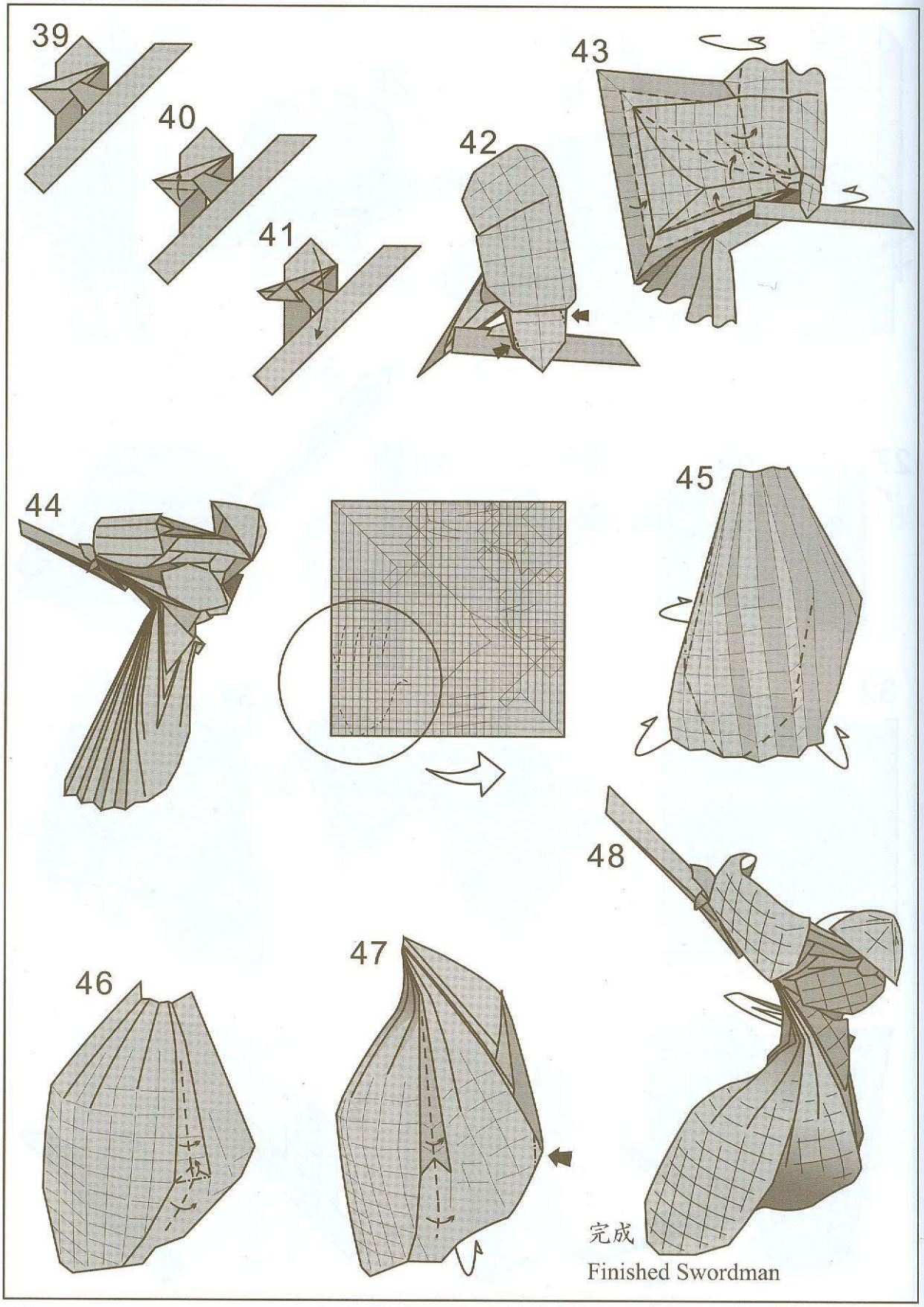
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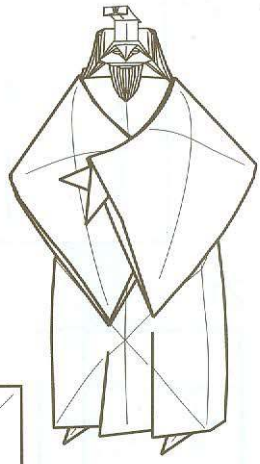
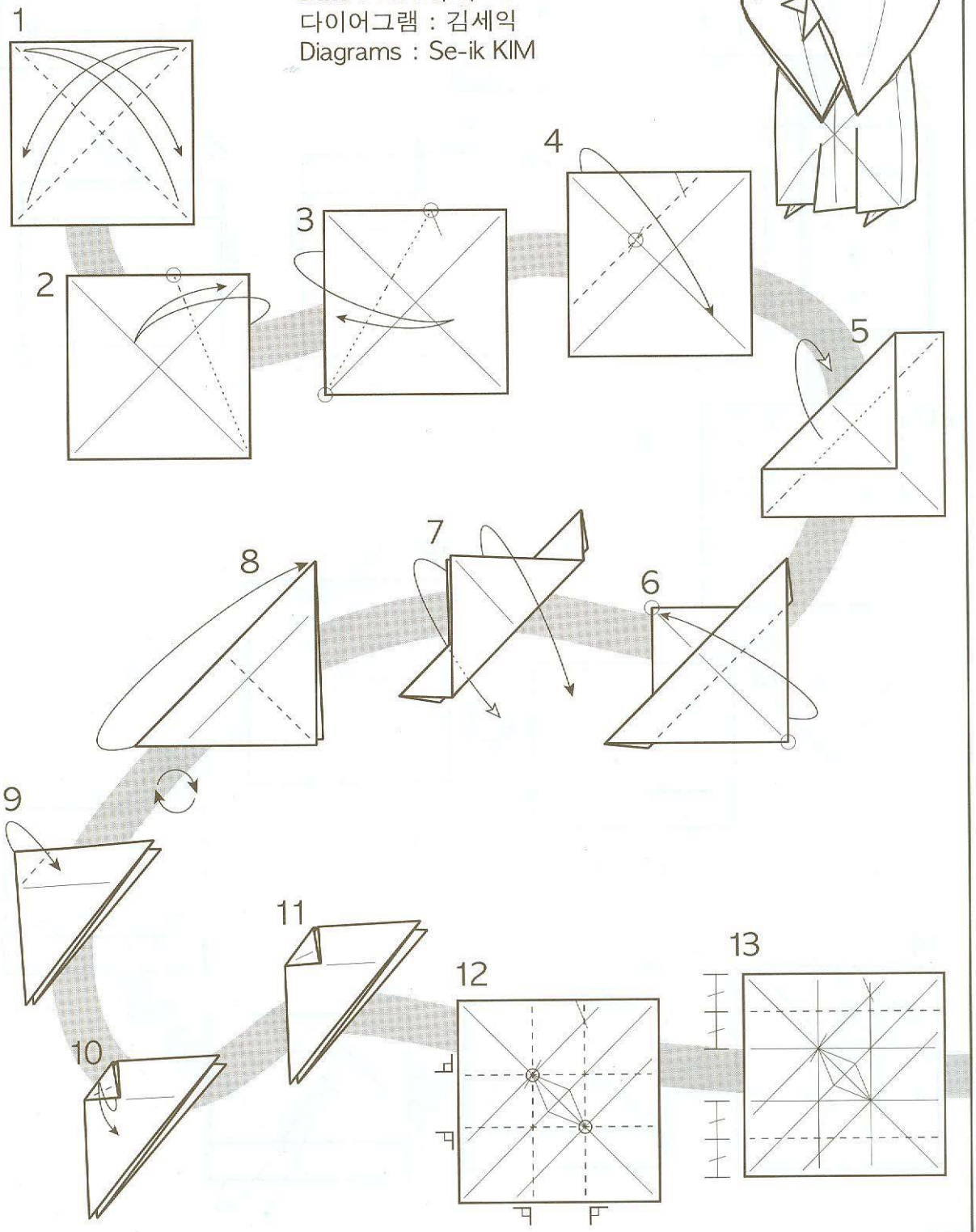
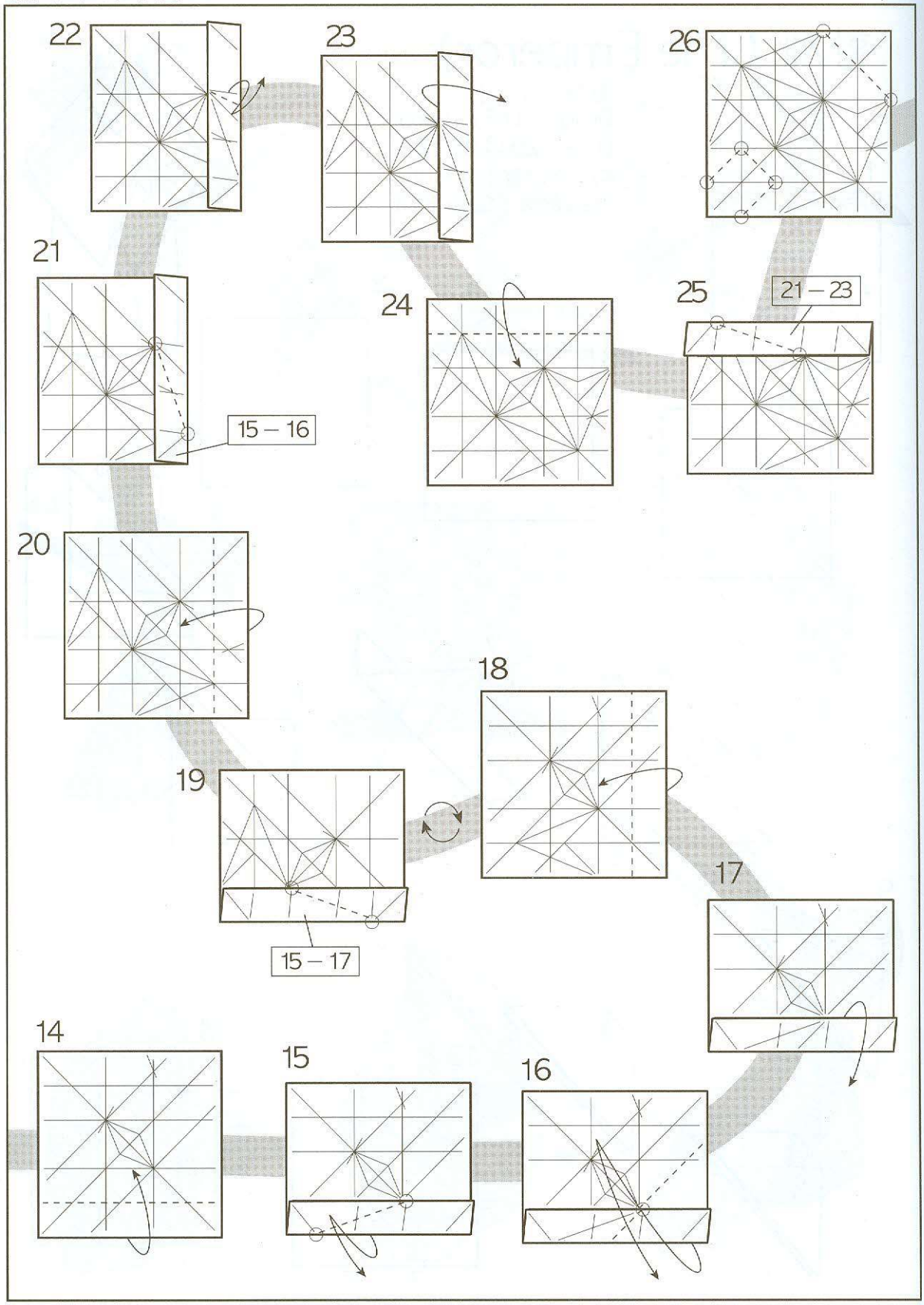
完成
Finished Swordman

황제 (The Emperor)

창작 : 이인섭
Design : LEE in-Seop
Date : 2011/6/18
다이어그램 : 김세익
Diagrams : Se-ik KIM



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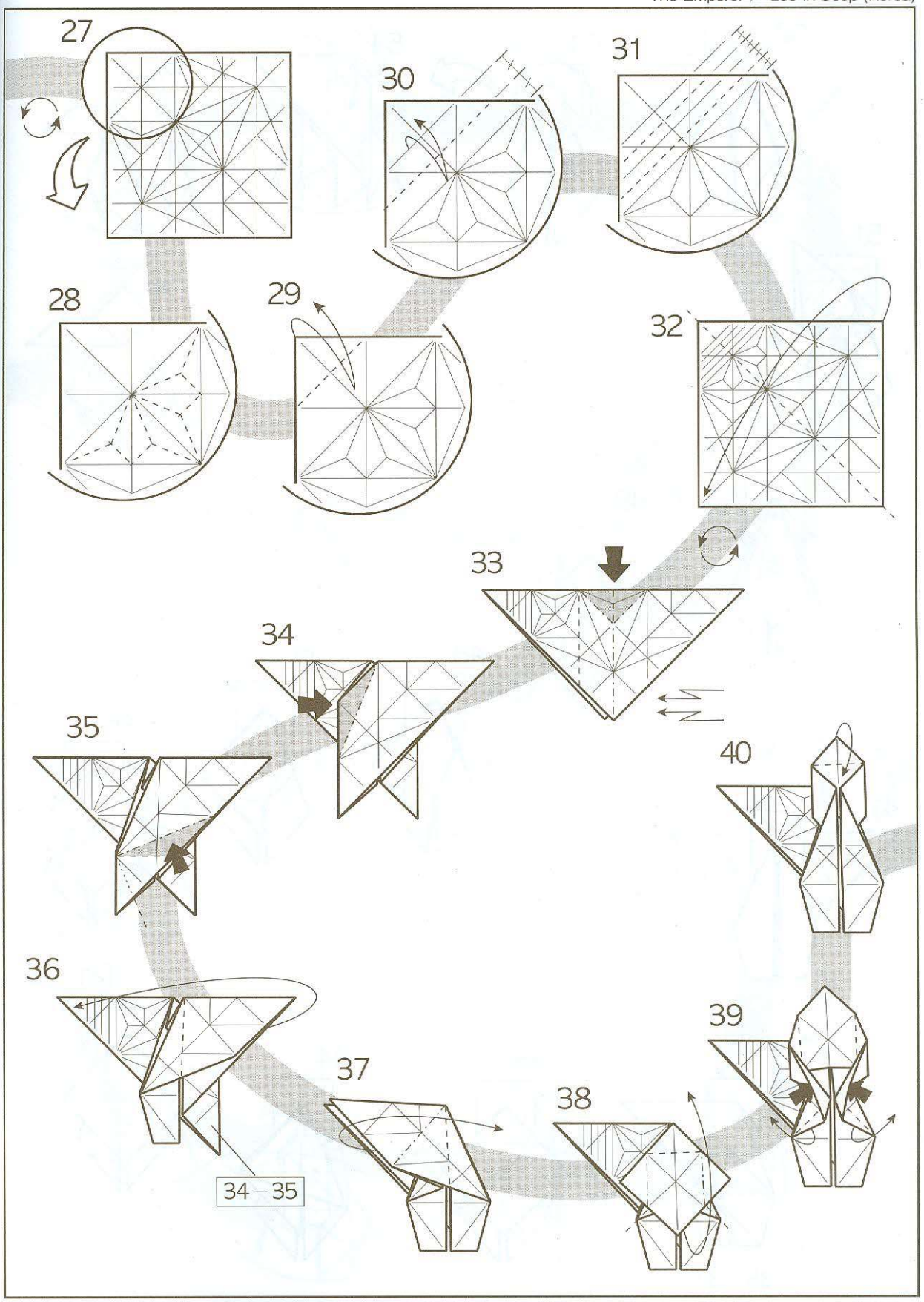
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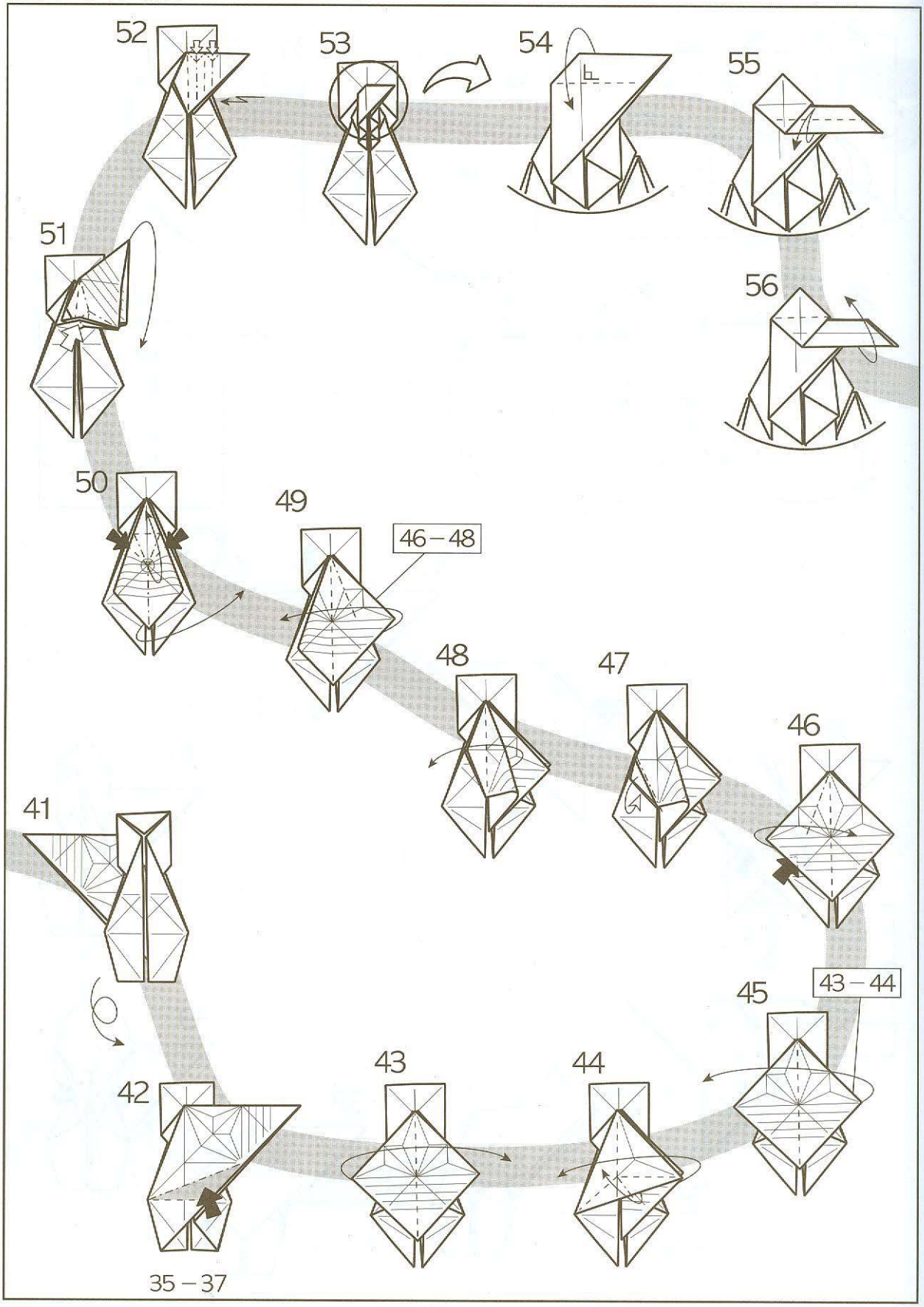
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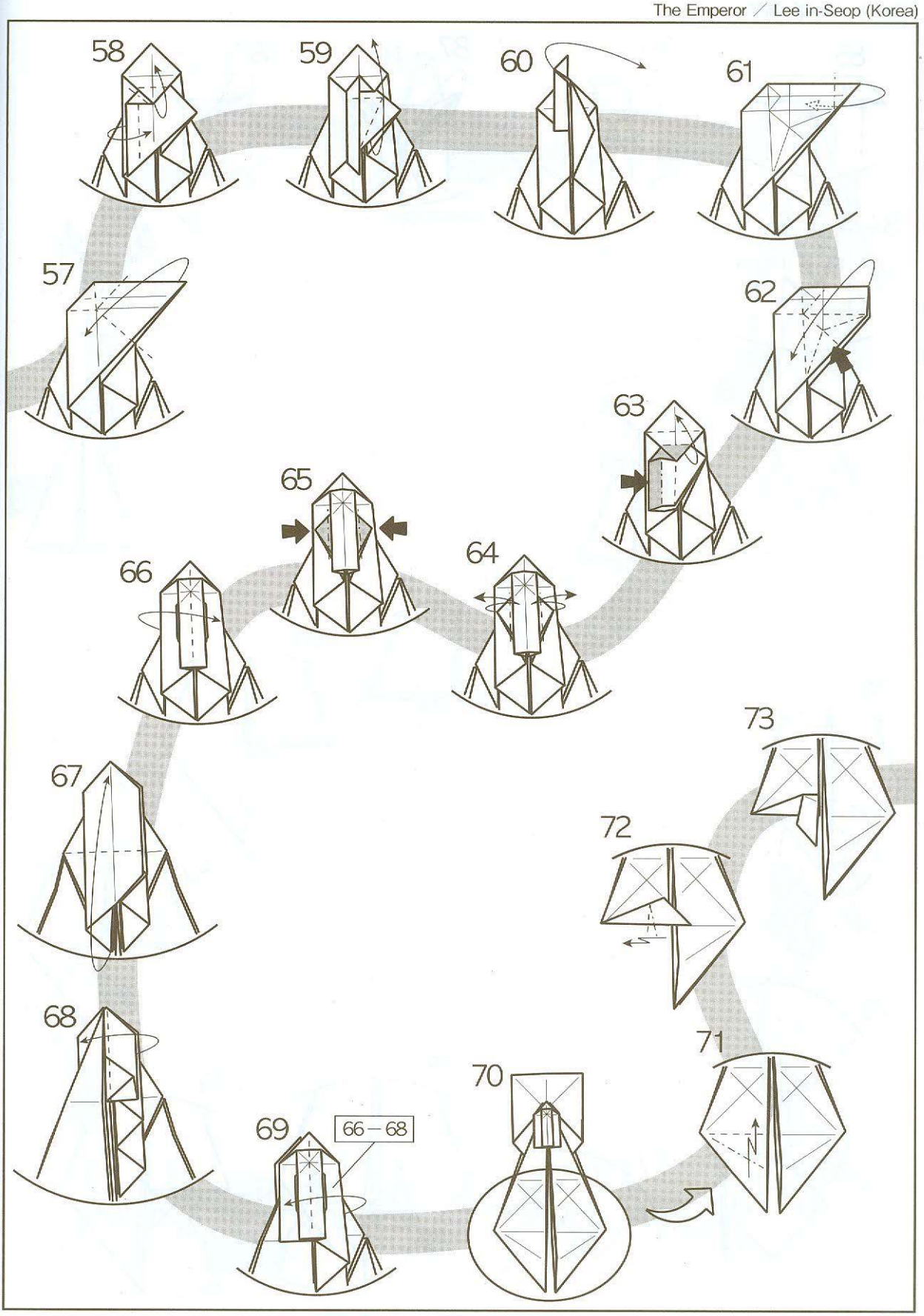
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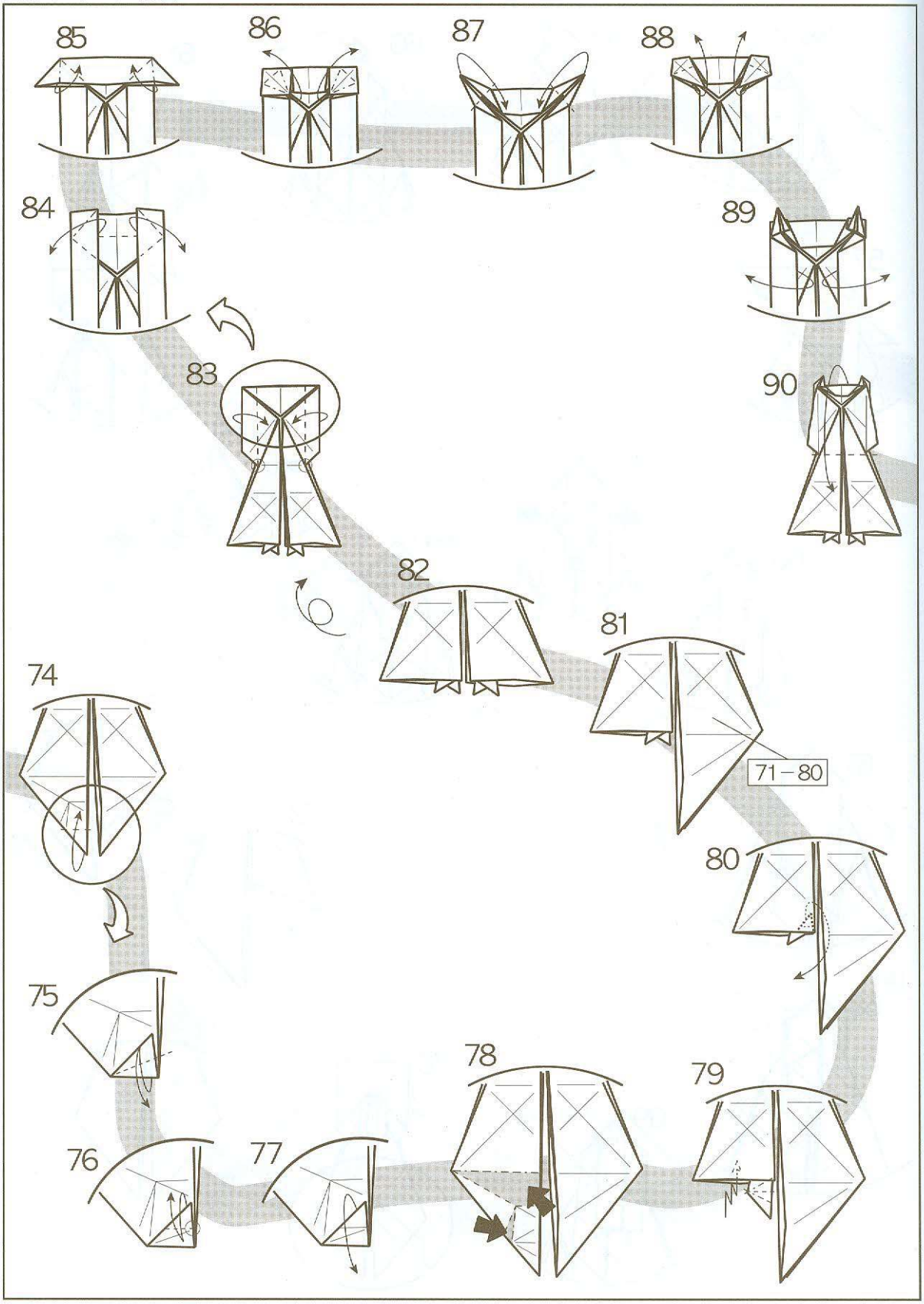
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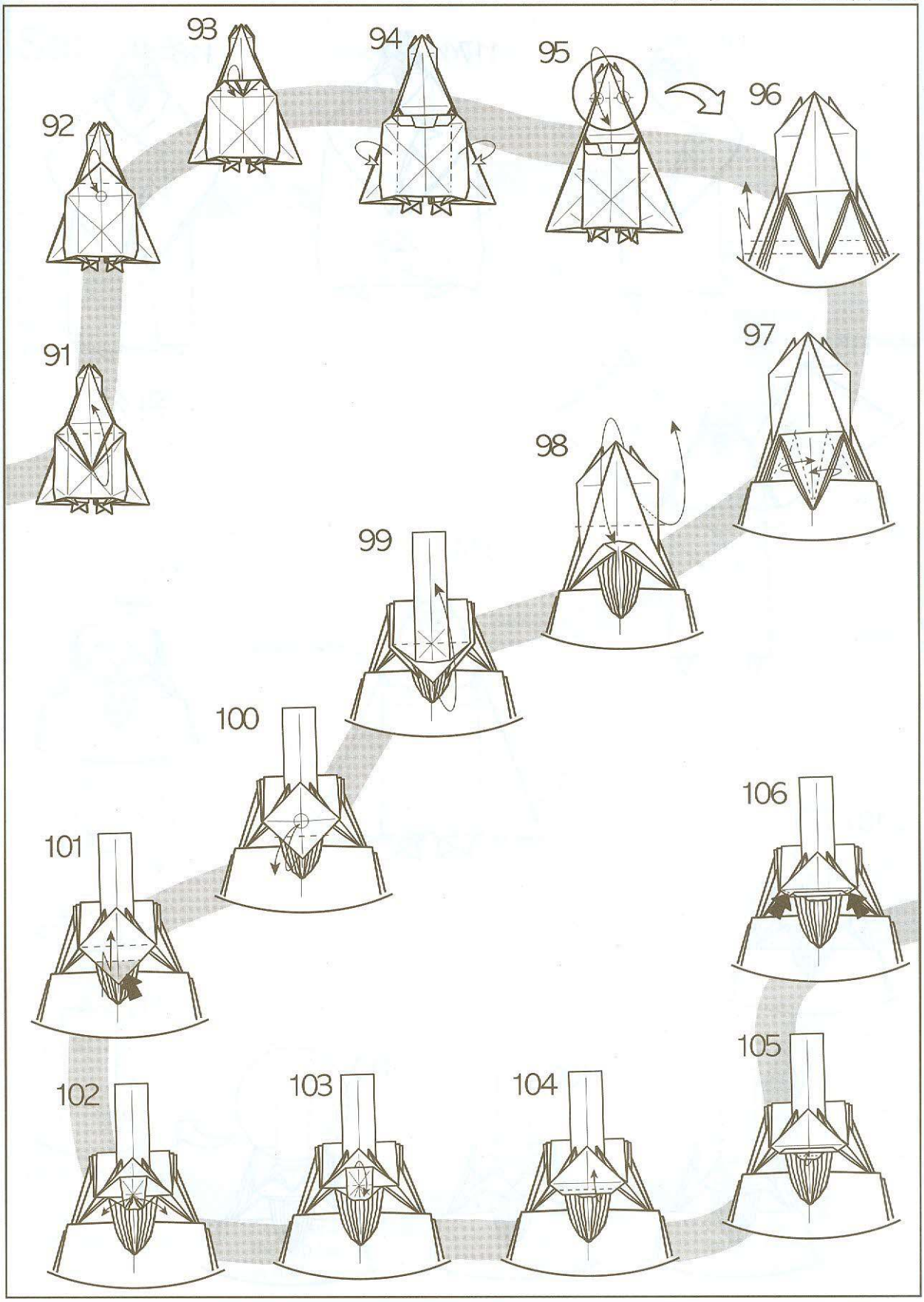
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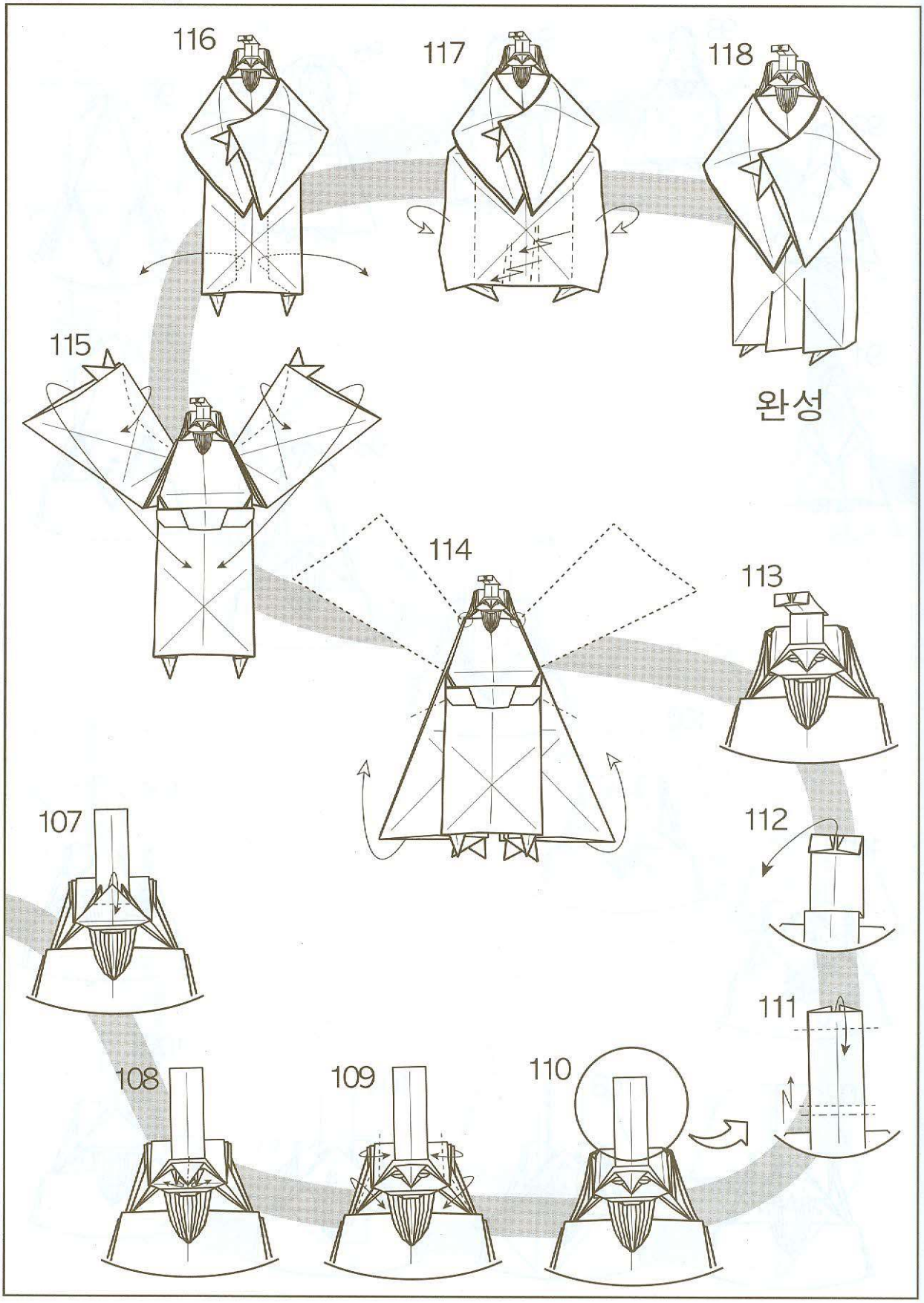
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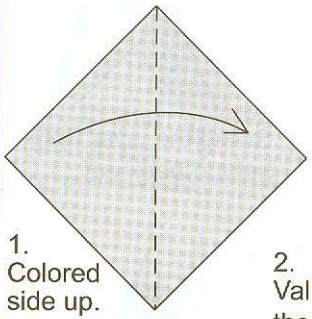
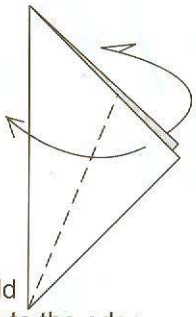
Satellite by Marc Kirschenbaum (NY) ©2011



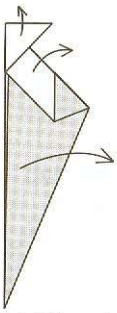
1.
Colored side up.
Valley fold in half.



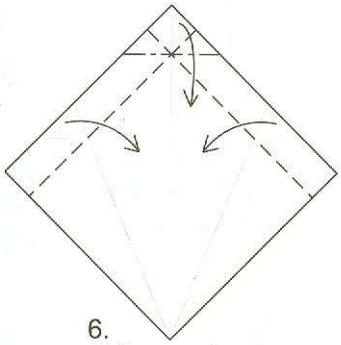
2.
Valley fold the sides to the edge.

3.
Mountain fold to the colored corner behind.

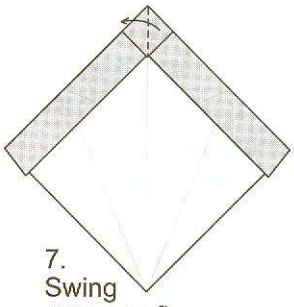
4.
Valley fold along the angle bisector



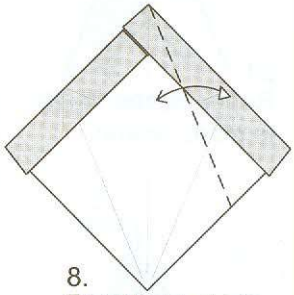
5.
Unfold the pleat.



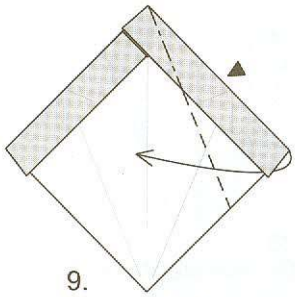
6.
Collapse down.



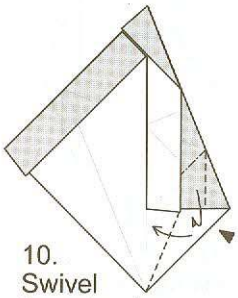
7.
Swing over one flap.



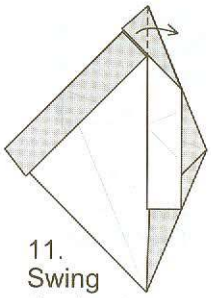
8.
Precrease along the angle bisector.



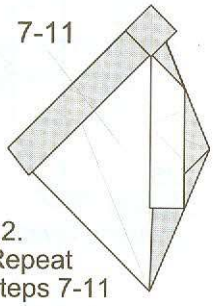
9.
Reverse fold.



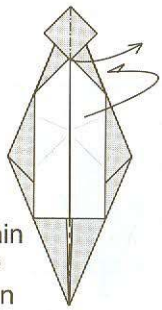
10.
Swivel the edge in.



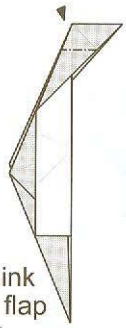
11.
Swing the flap back over.



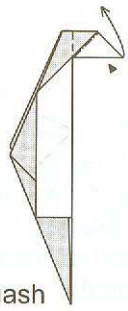
12.
Repeat steps 7-11 in mirror image.



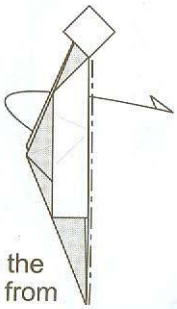
13.
Mountain fold the model in half while pulling out the top corner.



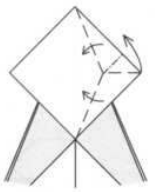
14.
Open sink the top flap in half (precrease first).



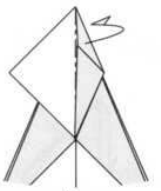
15.
Squash fold the flap up.



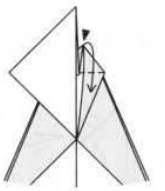
16.
Swing the layers from behind back over.



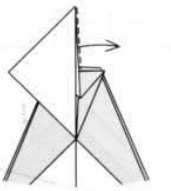
17.
Rabbit ear the corner up.



18.
Swing one layer through.

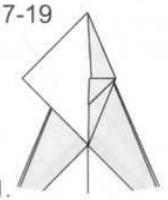


19.
Reverse fold the corner.

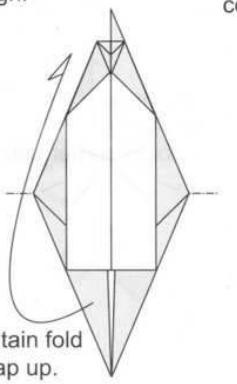


20.
Swing the layer from behind back out.

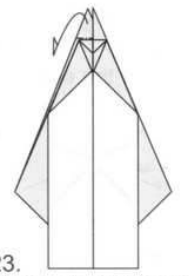
17-19



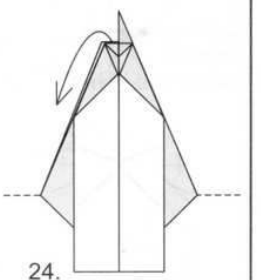
21.
Repeat steps 17-19 in mirror image.



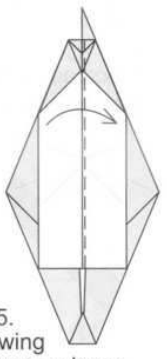
22.
Mountain fold the flap up.



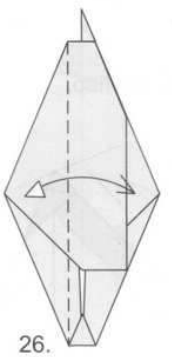
23.
Mountain fold to align with the folded edge.



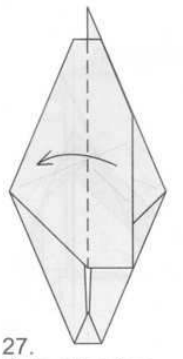
24.
Swing the flap back down.



25.
Swing overone layer.

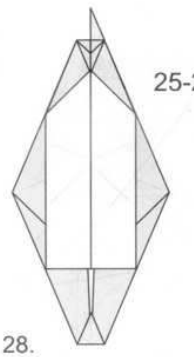


26.
Precrease.

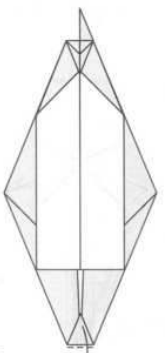


27.
Swing the flap back over.

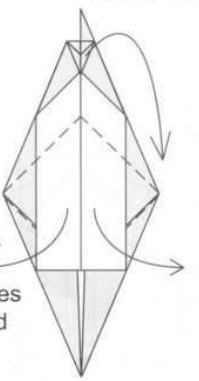
25-27



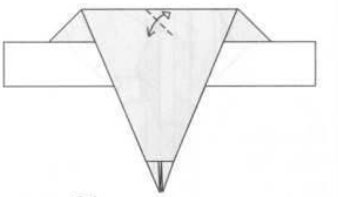
28.
Repeat steps 25-27 in mirror image.



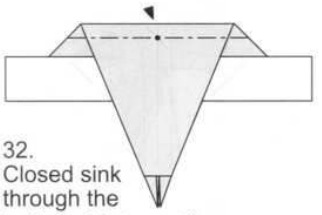
29.
Swing the tip down.



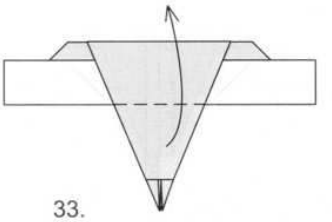
30.
Valley fold down while swiveling the sides outwards. Note in the next step how the creases align with the folded edges.



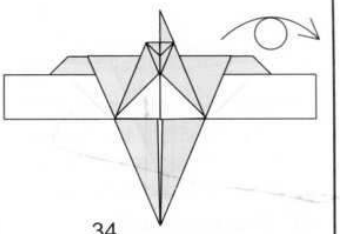
31.
Lightly precrease.



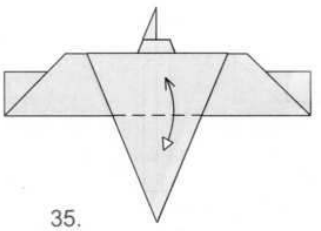
32.
Closed sink through the indicated intersection.



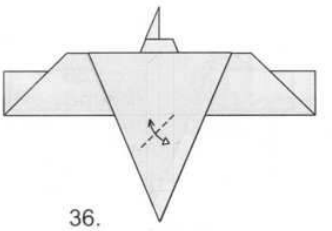
33.
Lightly valley fold up.



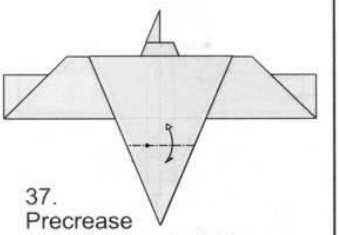
34.
Turn over.



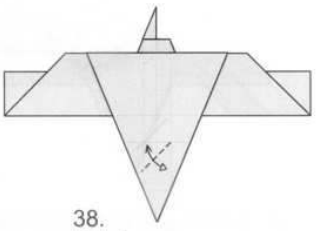
35.
Lightly precrease.



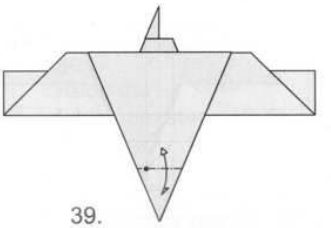
36.
Lightly precrease.



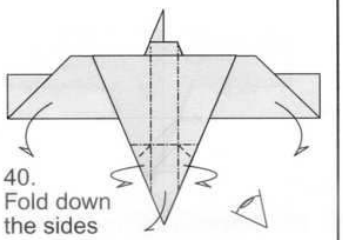
37.
Precrease with a mountain fold.



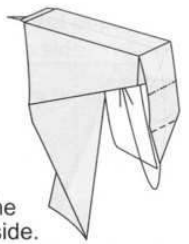
38.
Lightly precrease.



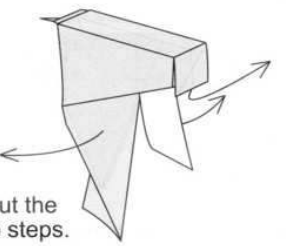
39.
Precrease with a mountain fold.



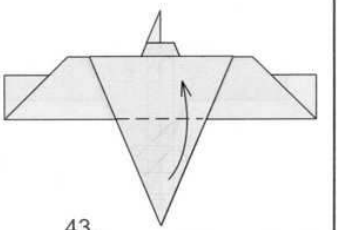
40.
Fold down the sides (do not crease sharply) and collapse the front down.



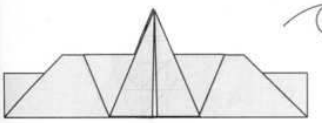
41.
Tuck the flap inside.
The tip will lie flush with the top of the model.



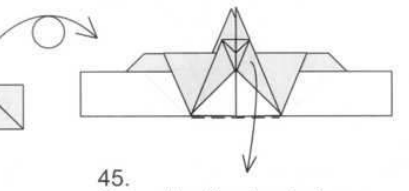
42.
Open out the last two steps.



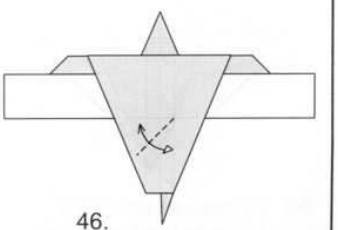
43.
Lightly valley fold up.



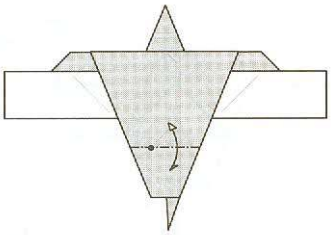
44. Turn over.



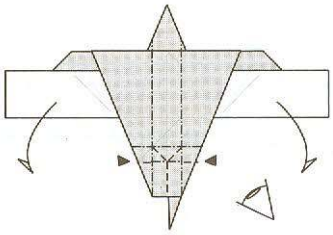
45.
Swing the flap back down.



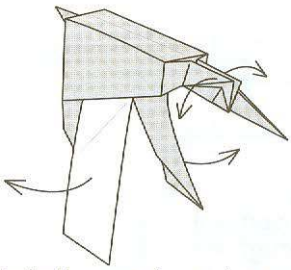
46.
Lightly precrease.



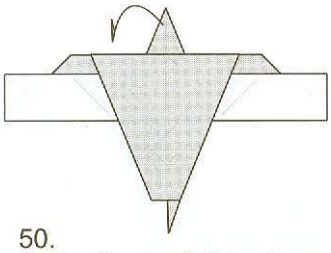
47. Precrease with a mountain fold.



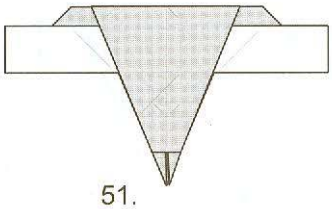
48. Swing down the sides while rabbit earing the front.



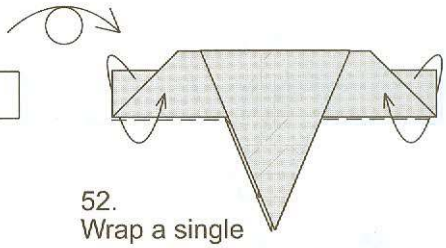
49. Undo the previous step.



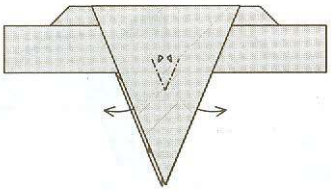
50. Swing the back flap down.



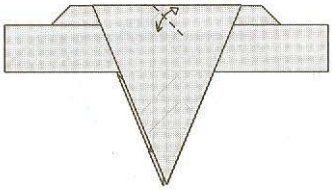
51. Turn over.



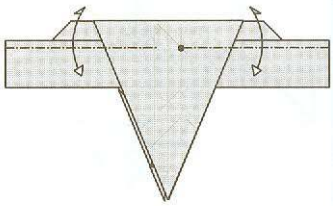
52. Wrap a single layer around from each side.



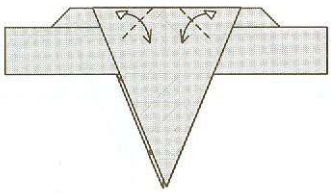
53. Reverse fold the hidden corners. Note the alignment to the surface creases.



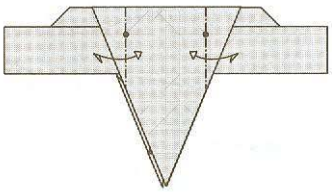
54. Lightly precrease.



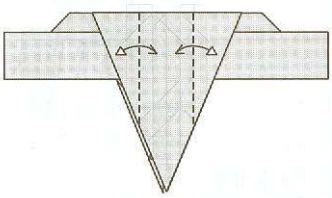
55. Precrease with mountain folds, using the indicated intersection as a guide.



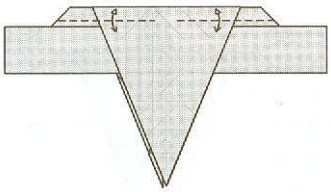
56. Precrease.



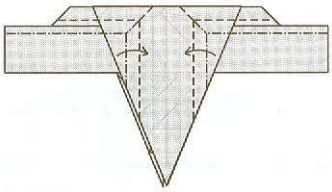
57. Precrease with mountain folds.



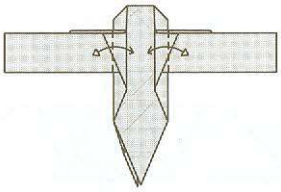
58. Precrease.



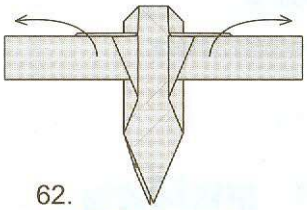
59. Precrease the sides towards the horizontal crease.



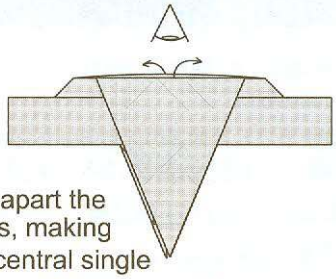
60. Collapse the sides inwards.



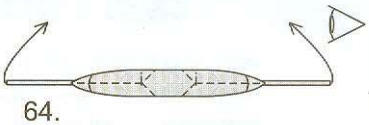
61. Precrease through all layers.



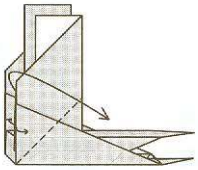
62.
Unfold to step 60.



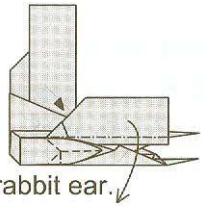
63.
Pull apart the sides, making the central single layer as flat as possible.



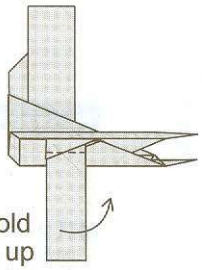
64.
View from previous step. Rabbit ear the sides up, allowing the central section to become boxlike.



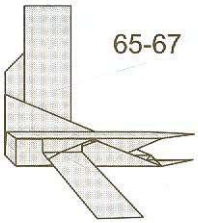
65.
View from previous step. Valley fold the flap down, allowing the side edge to spread apart (mostly) flat.



66.
Squash fold the flap down, inserting a rabbit ear.

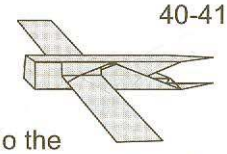


67.
Valley fold the flap up at a right angle.



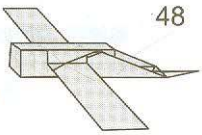
68.
Repeat steps 65-67 on the other side.

65-67



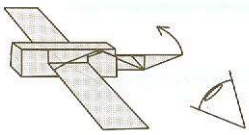
40-41

69.
Redo the folds from steps 40-41.

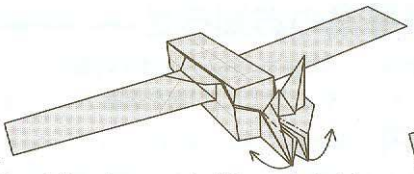


48

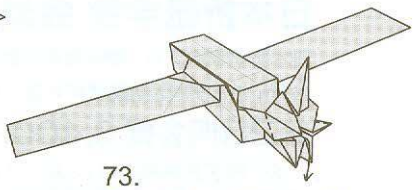
70.
Redo the folds from step 48.



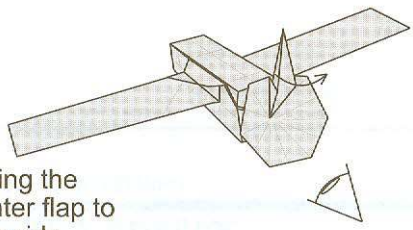
71.
Pull out a set of pleats from each side.



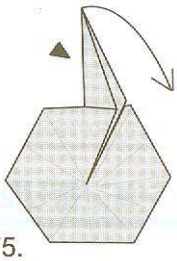
72.
Pull out the trapped sides at right angles. A hidden valley fold will be formed at each side.



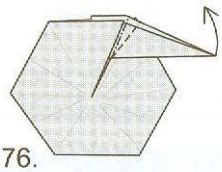
73.
Spread out the pleats.



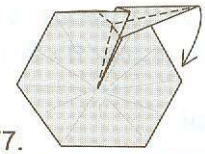
74.
Swing the center flap to one side.



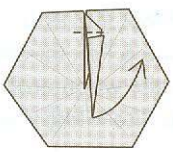
75.
Reverse fold.



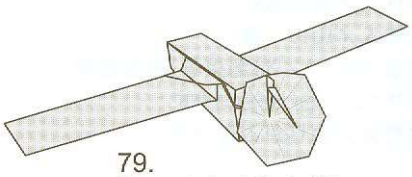
76.
Pleat the flap up.



77.
Rabbit ear down.



78.
Point the flap outwards.



79.
Completed Satellite
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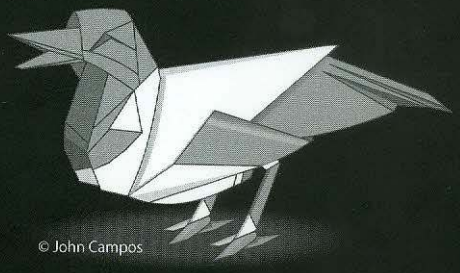

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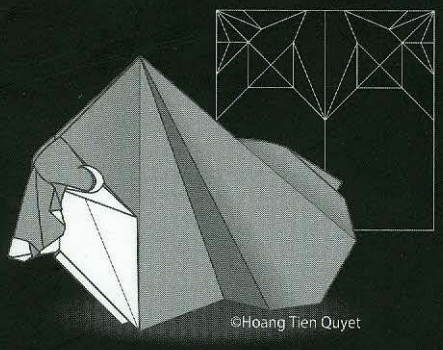

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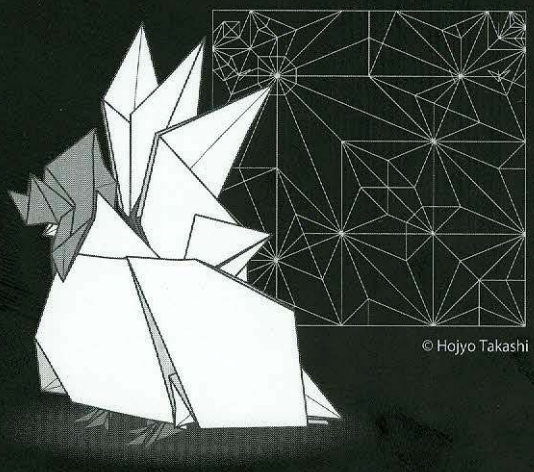

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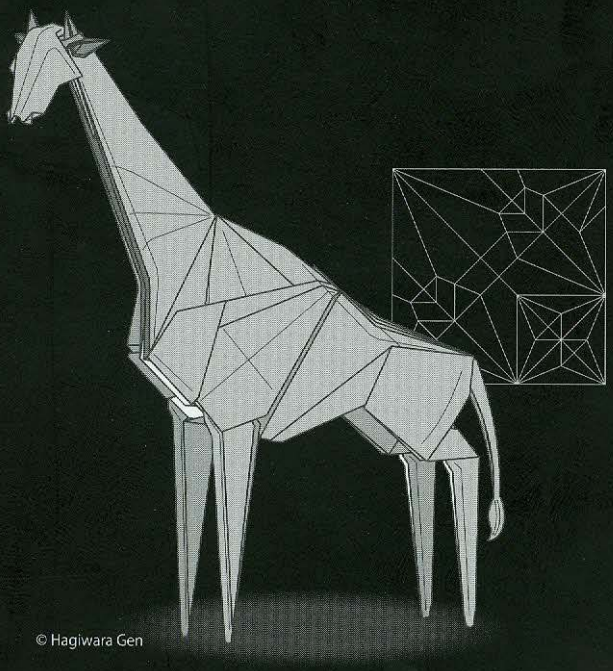

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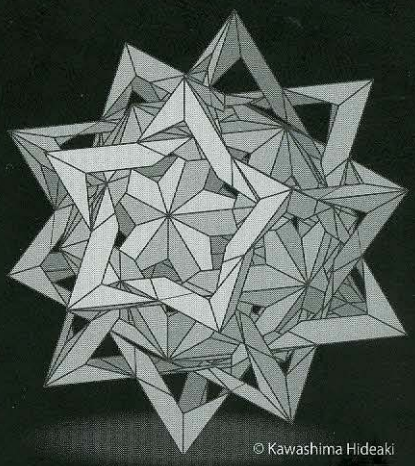

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