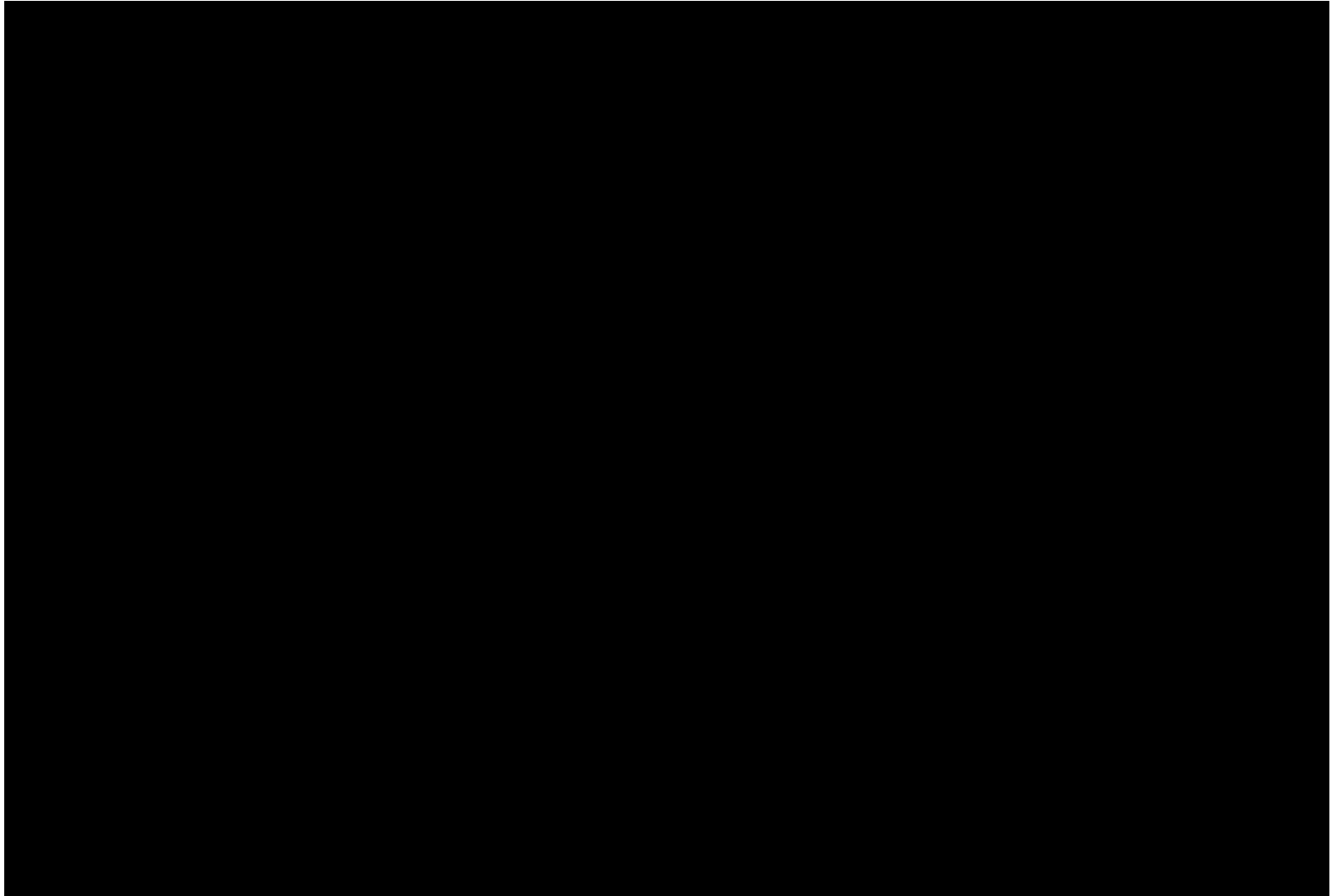


Ł (7(0270#<B*◁B:, + ° 855 *=87;
8- ° 86 6 B72F " (◁

' 850(70l (? , :) (B, :J" (7 #B*ℬ

%7℔ :: 2F 8- ' (;1270<87J#, (? 5

65° %+#! Ł*Ž+

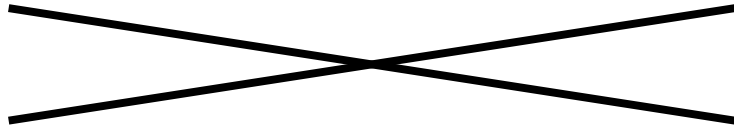


65° %+#! Ț*Ž+

65° %+#! Ł*Ž+

65°%+#!Ł*Ž+

° 86 9B< : #*27*, ~)) : , C2=87;K



EA \t ~

EA ~°/'

EA Ł &"

EA " ~/'

EA #! fl

EA ~Ž! ~

EA ~\$fl

EA 𐀀

° 86 9B< : #*27*, ° 87*, 9<K

EA Ł , :Q #8: <

EA \$D8N91(;, 58*420

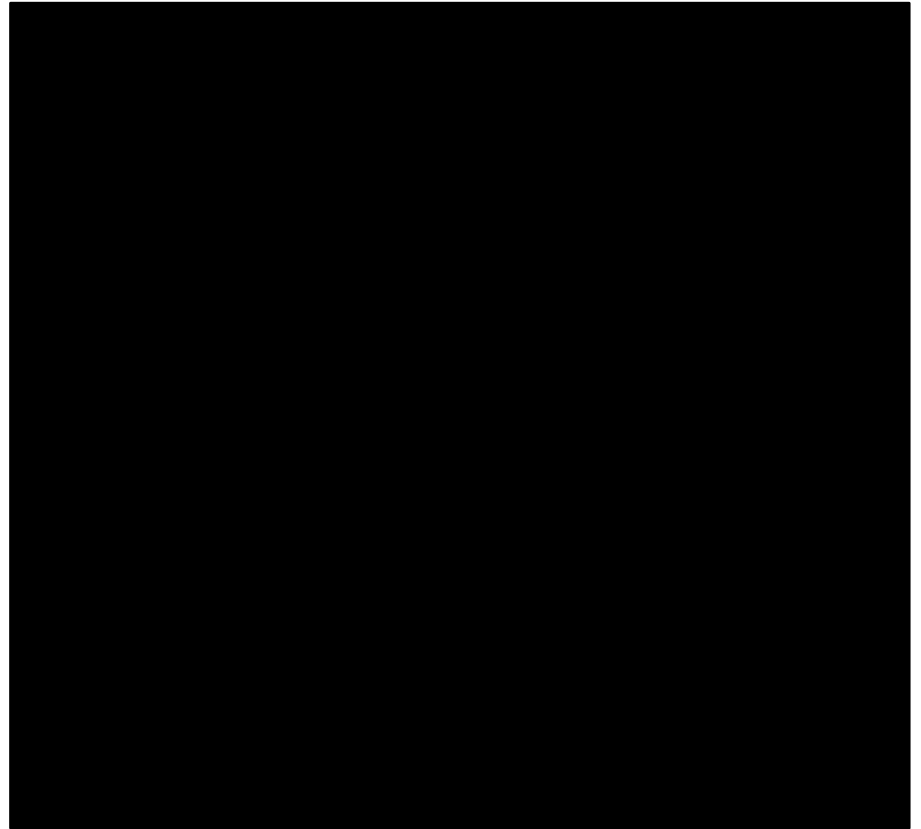
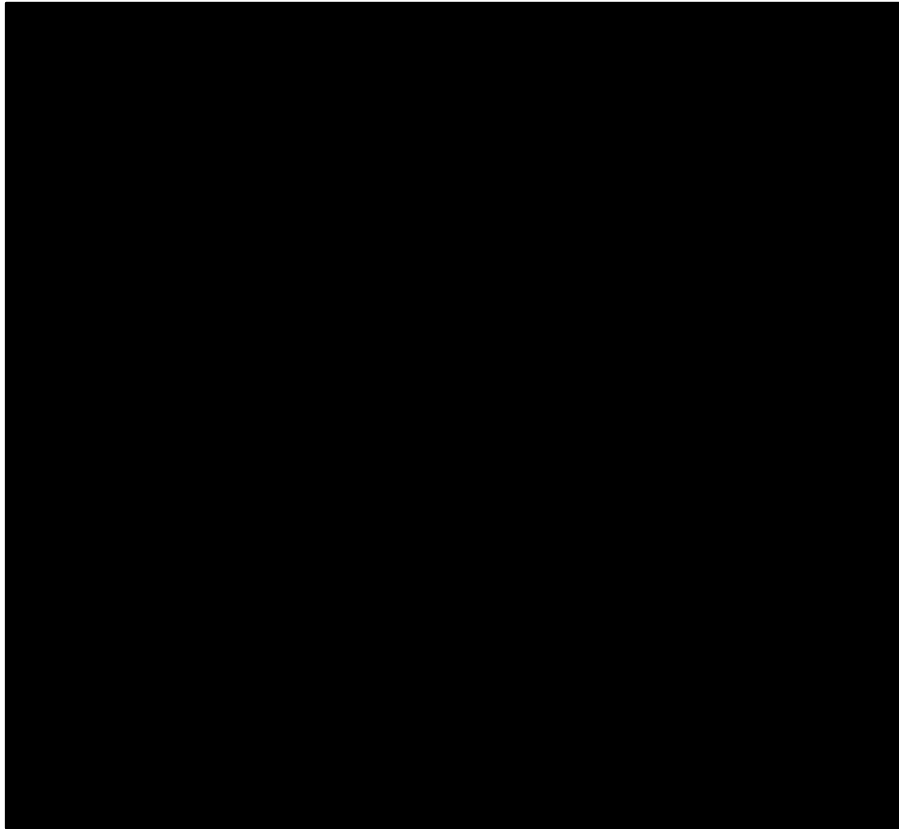
EA 𐀀

65° №1 Ł*Ž+

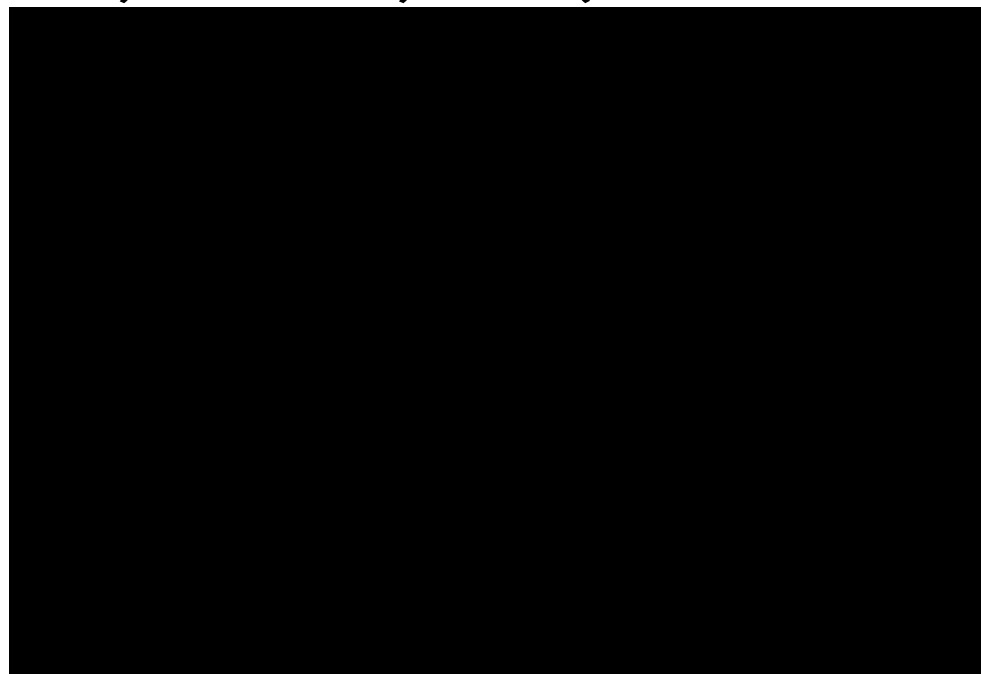


65° %+#! Ł*Ž+

\$, E(; " ž#Ł 8<8: *F*5 Ž 9, :(<8:; Ł (7B(5

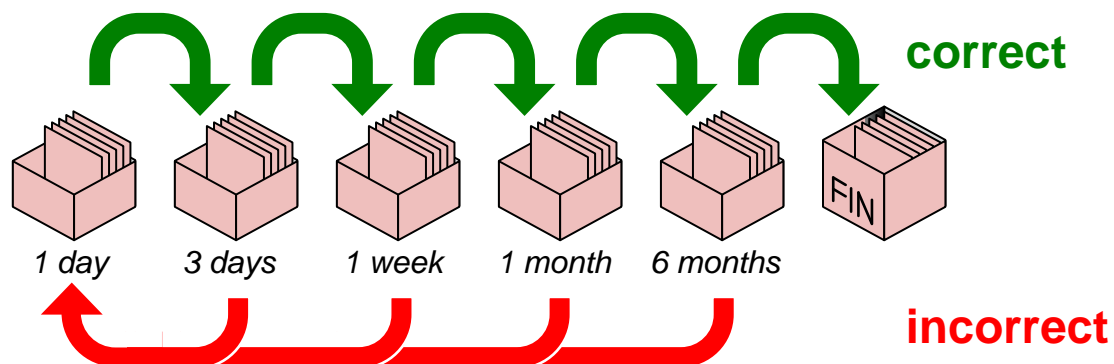


75) 44 žž 1 ž) ž- - ('



)) 201(B;
~ 8: Q @ 70° B: C

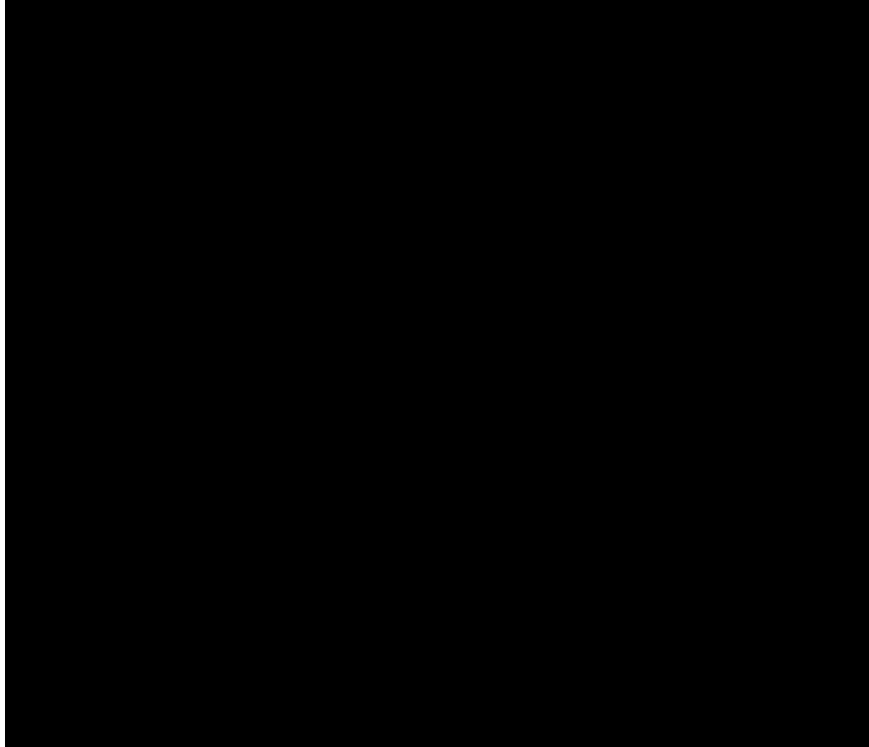
f| 27, : #F; < 6
Q 26; 5B: \$ Q (+B(< +
2< : Q(5, *(5R



75) ě ě ž ž ě ě - - ('

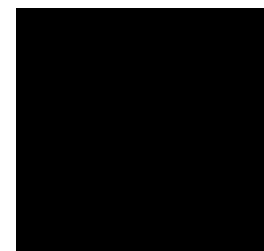
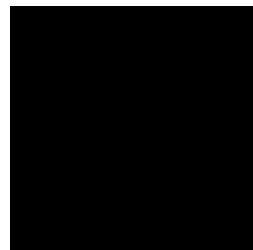
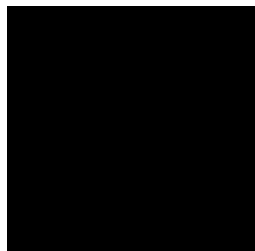
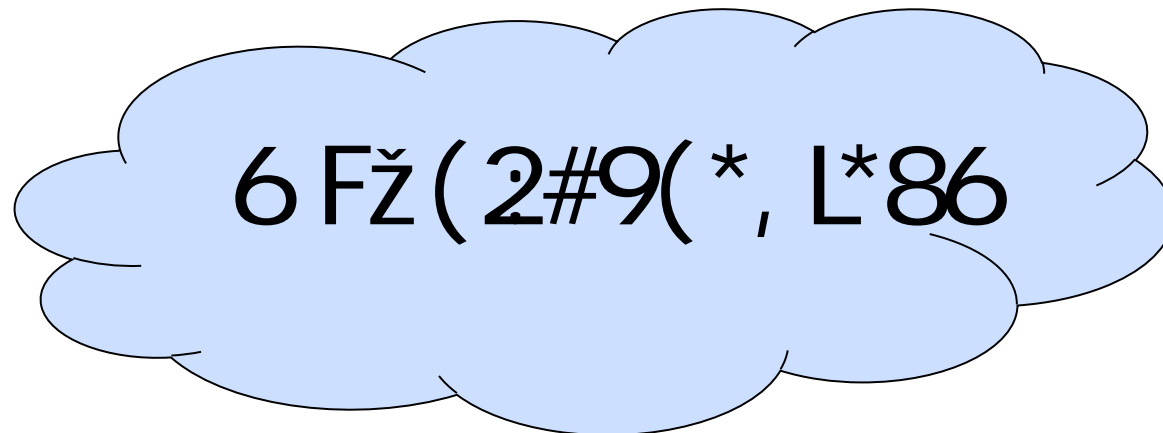
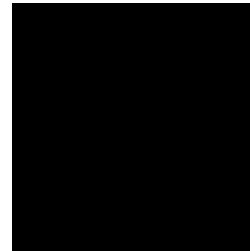
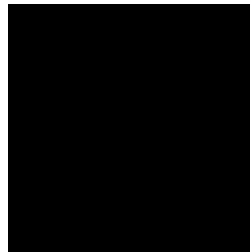
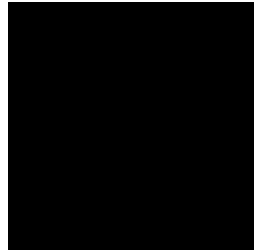


75) Łł žŽ ĺ ž) ž- - ('



#9, *25G + #8/ D(:,
E A B; , +) F [LXXX; *1885
E A ; 85+] XXLXXX =6 , ;

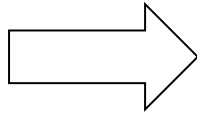
85~ · (&&/' \$3



~ ' ž2&) % ~ Ł\$ /) Łłž +ž' Ł*\$



~ 5,



/) Ł' \$ # 6

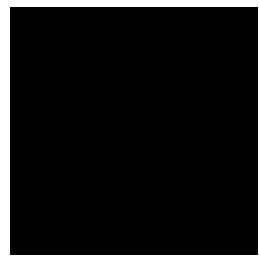
YL 08N2

ZL 9(FM9(Ł:

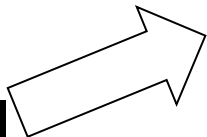
[L *86, N, 72

III III

YXXL 1, (:N82



· 8)



/) Ł' \$ # 6

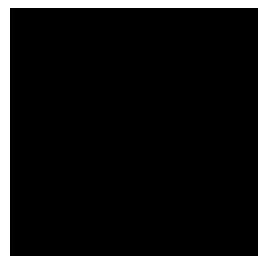
YL 08N(17+(:

ZL 9(FM9(Ł:

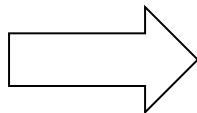
[L *86, N, 72

III III

YXXL 1, (:N82



° 1(:5



I

~ L ~ 5, 2, : < 1, : . : <
#9(721 5 ; ; 87

· L · 8) ; , (: *1, ; (7+
. 7+; ~ 5, \$ 5 ; ; 87

° L · 8) (+ (9 < 12 *89F
8- 1, : 8: 22(55 ; ; 87

" L ° 1(: 5 *86, ; (7+
; , (: *1, ; -8: #9(721
5 ; ; 87;

· ž ~ + + &) f l +) % 3 ž & / + &
') f l * f p % + 3 ž & / + & (- f l) 13
~ % f i ž & / + &) ~ % ' 2

#L% "ž 6



/) L' \$ # 6

YL OBN

ZL 9(FM9(Q:

[L *86, N, 72

III III

YXXL 1, (:N82



/) L' \$ # 6

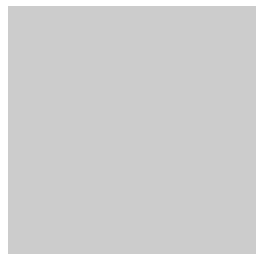
YL OBN(17+(:

ZL 9(FM9(Q:

[L *86, N, 72

III III

YXXL 1, (:N82



° 1(:5

|

94, ž ~ ++&)fl+)%2

EA ~ 5, \$ 08: 22(R

EA ' 8) \$ 0 8; <:, *, 7<R

EA <1, 2 2<:;, *=87

EA <1, 2 B727

EA 9., :, 7=70<1, 87,
/&% !, %ž <B95

~ &/ +&!%&)\$ +ž fl- *f)

~ ! &- ++ž fl*+)-/+)~ #

. ~)!~, &%!%/&##V, &%*2

· #L% "ž 7

~ 5,

→

/) L' \$ # 6

YL OBN

ZL 9(FM9(α:

[L *86, N, 72

III III

YXXL 1, (:N82

· 8)

→

/) L' \$ # 6

YL OBN(17+(:

ZL 9(FM9(α:

[L *86, N, 72

III III

YXXL 1, (:N82

° 1(: 5

→

|

: 4~ &/ +&')f!*fp%+2

EA 5< 8- <B95;

EA 5< 5;; 87; U , E(6 95
<B95;

EA 6 (3: 2F C; +2; :: 2F

EA *B; < : *85 *=87; 2<8
6, <(N85 *=87;

· ž~ +~)f|&' , \$ ~ #8f|+)%
*+)-/+)f!*8~ %fi-žf!) .!*- ~ #
)f|)f!*fp%+ , &%2

· #L% "ž 8



~ 5,

/) L' \$# 6

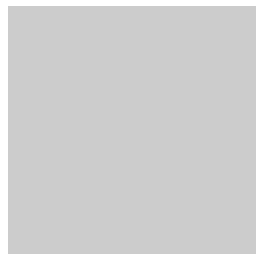
YL	08N1
ZL	9(FM9(Q:
[L	*86, N, 72
III	III
YXXL	1, (:N82



· 8)

/) L' \$# 6

YL	08N(17+(:
ZL	9(FM9(Q:
[L	*86, N, 72
III	III
YXXL	1, (:N82



° 1(:5

|

; 4~ &/ +&*fī)/ž2

E_A fī, FD8: +N) (:, +

E_A ~ 8: 6 N) (:, +

E_A f(7OB(Q N) (:, +

-_A Q:F270<B; <

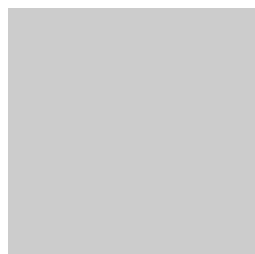
-_A 02, 7 D, ;, (:*1 -8:
85=87;

~ &/ +&I fī*+4~*+3fī*17

~ #&/ - *fī)* +& +&fīD)fī**

+žfī!)*fī)/ž %fīfī*2

· #L% "ž 9



/) L' \$ # 6

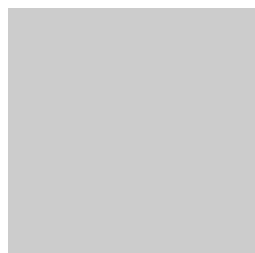
YL OBN

ZL 9(FM9(Q:

[L *86, N, 72

III III

YXXL 1, (:N82



/) L' \$ # 6

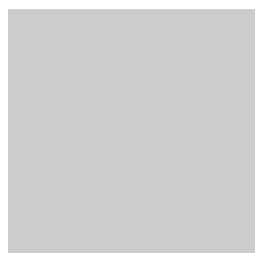
YL OBN(17+(:

ZL 9(FM9(Q:

[L *86, N, 72

III III

YXXL 1, (:N82



|

<4~ &/ +&)~ %' 2

EA #F7<(*=* U ; , 6 (7=*
; 2 2: 2F Q*: 8; ; 57OB(Q ; R

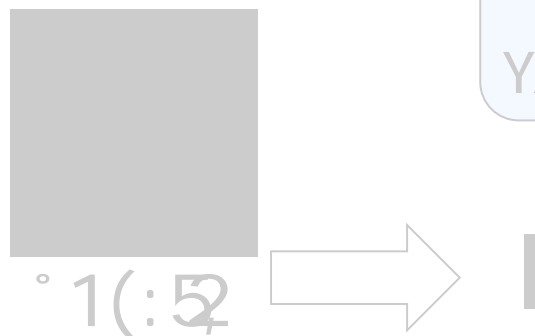
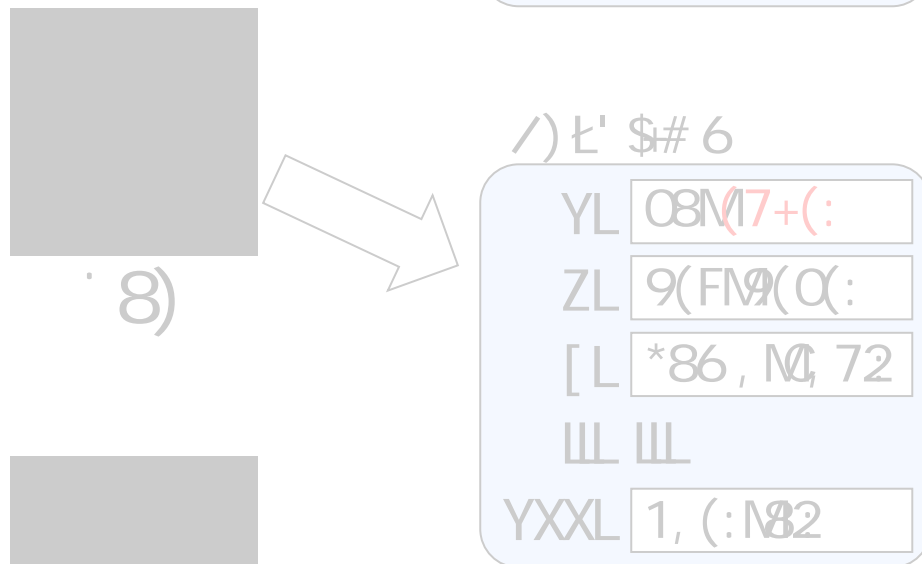
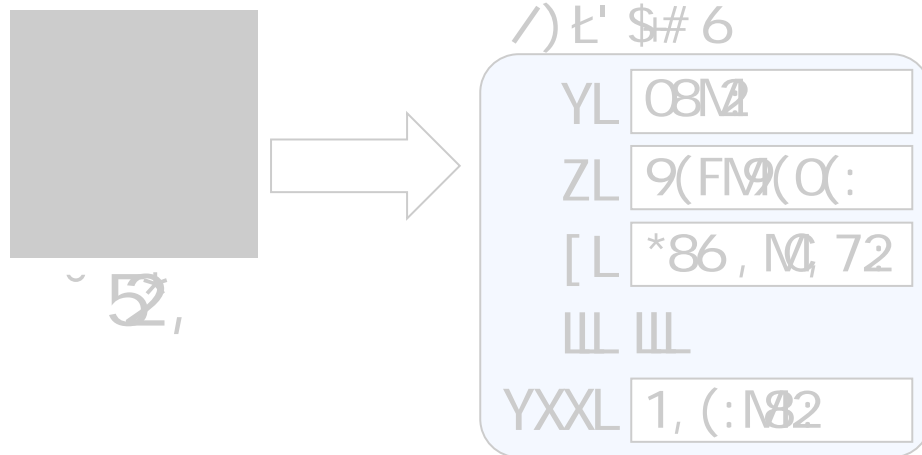
EA #< B* <B: , Q, 6 ; C
*85 *=87R

EA \$: B; <O8< NC ; B5 N
) (; , +

EA ž: 8C, 7(7*, O87
*85 *=87; R

EA f| (: 72OM+ B; <6 , 7<
8C : =6 ,

Œ*Œ1 (!`#L% "ž+



P t , D ° 1(5 7Q ;
 0' , 9. , ; , 7< =87
 07< :-(* ,
 0' , 5Q(7* , 6 , (:B. , ;

P ° :8 ; ; N B@ 70
 ° 1(5 7Q ;
 02*87 ; 2< 7*FM4B ; <
 0787N6 878<872F
 QF7(6 2 , C8B=87R
 0B7* , :< 24F
 09.8C, 7(7* ,

/(&ž)*(&\$+\$" +(%-(' +

Pł, D ° 1(5 7Q ;

0', 9., ;, 7< =87

07< :-(*,

0', 5Q(7*, 6, (;B., ;

P ° :8, ; N B@ 70

° 1(5 7Q ;

&fł' · ZXxa

#26 8+ ZXYX

Ł %" ZXYX

&fł' · ZXYR

02*87; 2< 7*FM B; <

0787M 878<872F

QF7(6 2, C8B=87R

0B7*, :< 2<F

09.8C, 7(7*,

" Ł' Ł"\$ " ,#ž #/&Ł' "ž' (&ž

1: ACCGCAACGTTATAGGCACGCTATATCG

2: ACCGCAACGTATTATAGGCACGCTATATCG

3: ACCGCAACGTATTATAGGCACGATATCTCG

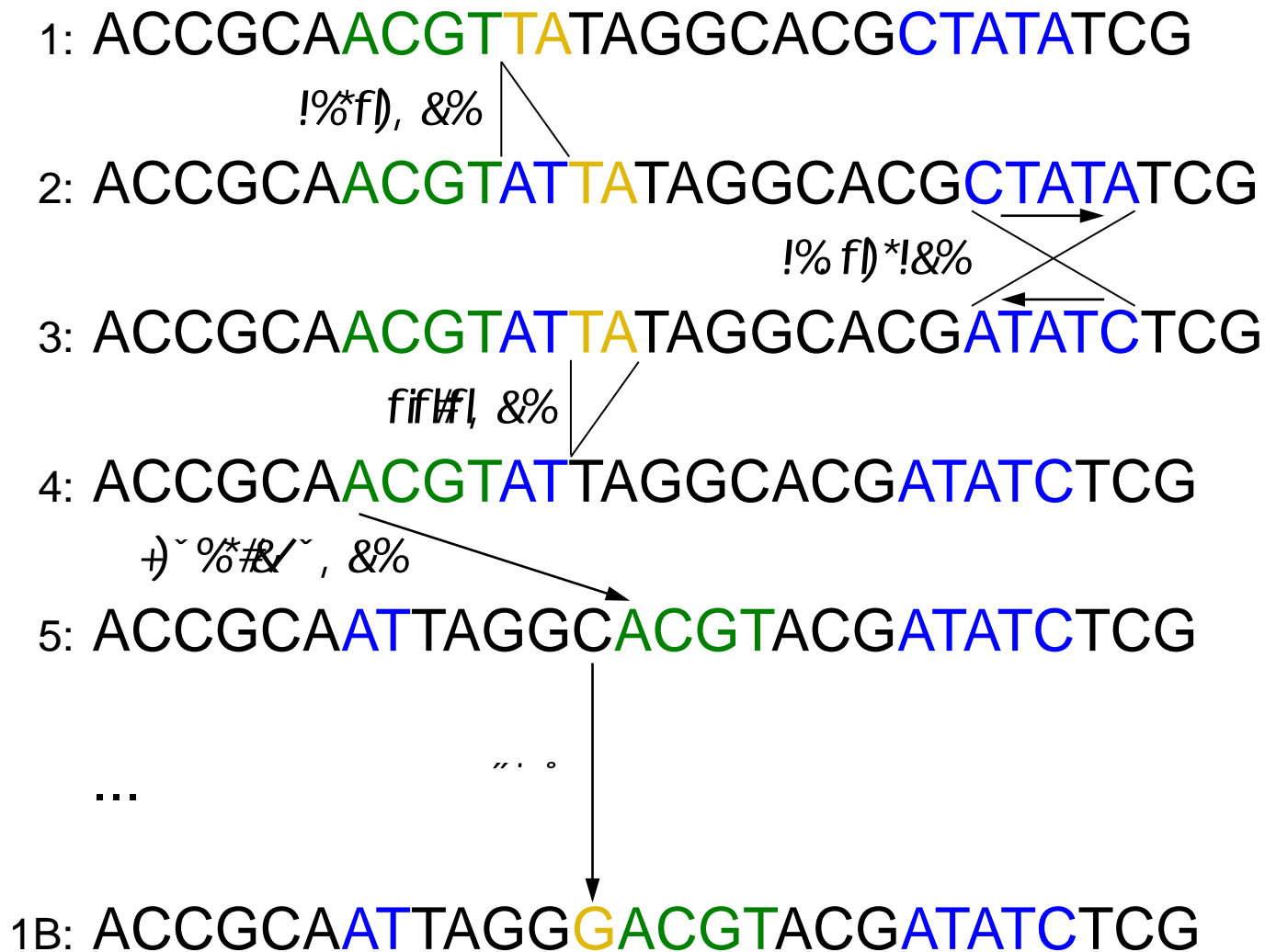
4: ACCGCAACGTATTAGGCACGATATCTCG

5: ACCGCAATTAGGCACGTACGATATCTCG

...

1B: ACCGCAATTAGGGACGTACGATATCTCG

" Ľ' Ľ"\$ " ,#ž #/&Ľ' "ž' (&ž



#)žfB*/~ #l
 *+)-/+)~ #
 .~)!~ , &%*

*!%ž#l
 %/#l&, fifl
 ' &#l\$ &)' ž!*\$

f#ž fl\$'\$

P 6 Fž(2#9(*, L*86

087, 6(;; 2, *, 7<(5, 98; 28:F -8: *, N5(:72707,, +;

01(; <1, <F92(5" Ł *1(5 70; 8- (7F *86 6 B72F " ' .

07, DK6 (7(Q 6, 7<8- /&#fY, &%* (7+ <1, 2, C8B=87

P \$1, 7 (); < (*<(7+ (995 5 (:7, + 9: 27*25;

0+(< +, <:6 2, ; <1, ; <B* <B:

06 (7(Q 6, 7<8- <1, 1B6 (7 Q 786,

Q6 (7(Q 6, 7<7C ::B; T; *27=. * 6 (7(Q 6, 7<7R