Calendar „Pentagon"

The model was originally designed by Tomoko Fuse, Japan and designed as a calendar by Sara Giarrusso and Ramin Razani, Italy. Pictures and the diagrams (Paola Scaburri) are published at

http://www.origami-cdo.it/modelli/pdf/

Centro Diffusione Origami

This calendar-model was optimised by Matthias Eichel, Kassel and Stefan Delecat, Göttingen, provided with optimised folding instructions too and published as calendar in German and English language first for 2007 and now **for 2016** for the members and all friends of Origami Deutschland.

Happy folding

Stefan Delecat and Matthias Eichel
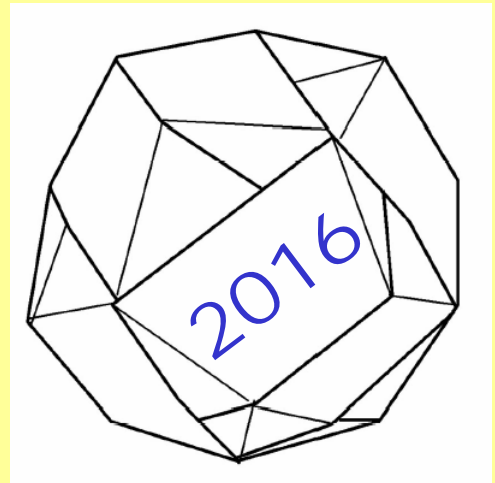
January

Origami
Deutschland

June

June

MARCH

2016

Su	M	Tu	W	Th	F	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

insert into February unit

February

October

Oktober

2016

Su M Tu W Th F Sa

JANUARY

1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29

insert into
March
unit

March

FEBRUARY

2016

Su M Tu W Th F Sa
1 2 3 4 5
6 7 8 9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 31

insert into January unit

May

May

April

Su M Tu W Th F Sa
1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30

JUNE

2016

March

March

insert into
August
unit

May

April

April

JULY

2016

Su	M	Tu	W	Th	F	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

insert into December unit

June

November

AUGUST 2016

Su	M	Tu	W	Th	F	Sa
	1	2	3	4		
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

insert into
April
unit

November

July

September

September

September

DECEMBER 2016

Su	M	Tu	W	Th	F	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

insert into
May
unit

August

July

2016

APRIL

Su M Tu W Th F Sa
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
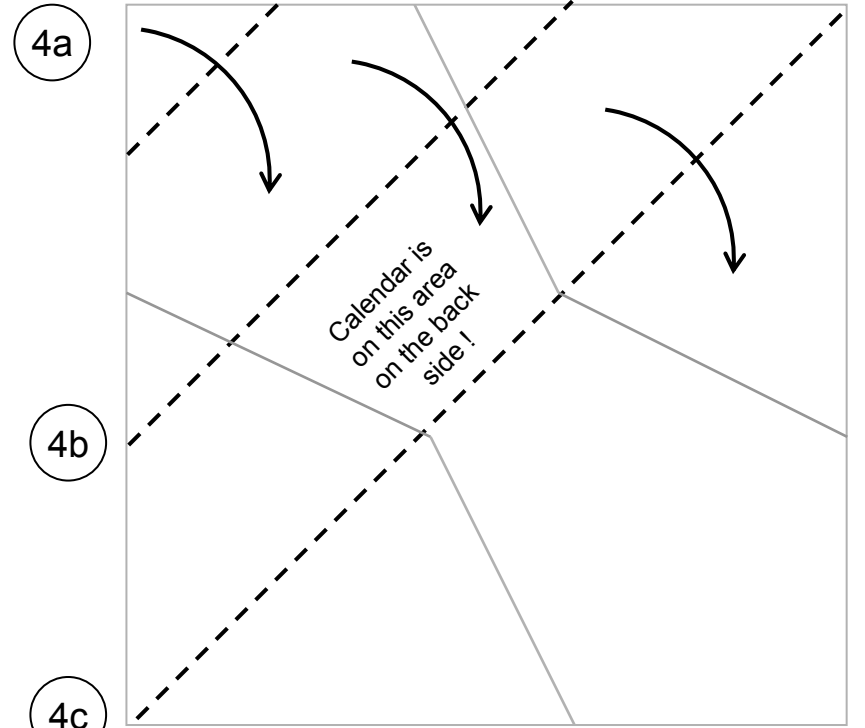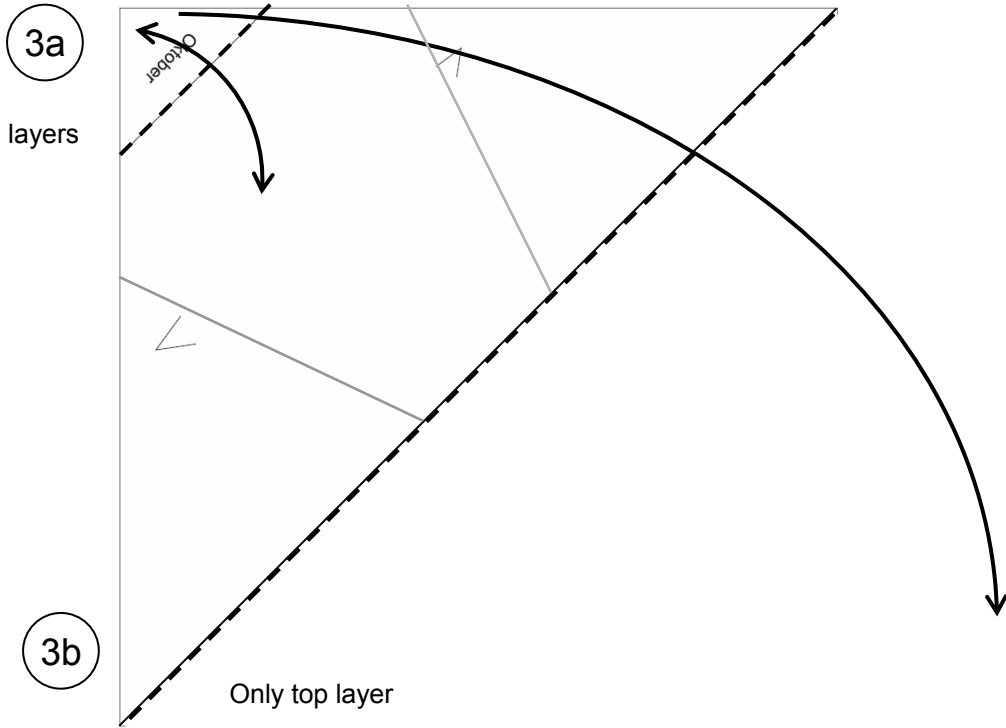28 29 30 31

insert into
June
unit

July

September

Origami
Deutschland

Su M Tu W Th F Sa

2016

1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30

NOVEMBER

insert into
October
unit

August

August

October

2016

SEPTEMBER

Su	M	Tu	W	Th	F	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

insert into
November
unit

December

December

November

January

OCTOBER

2016

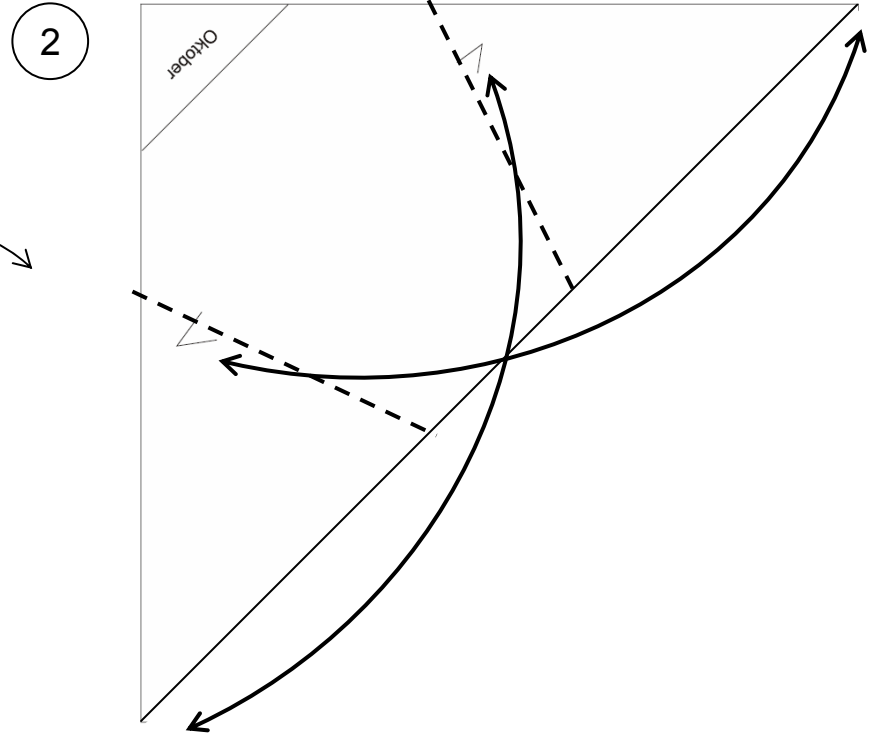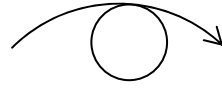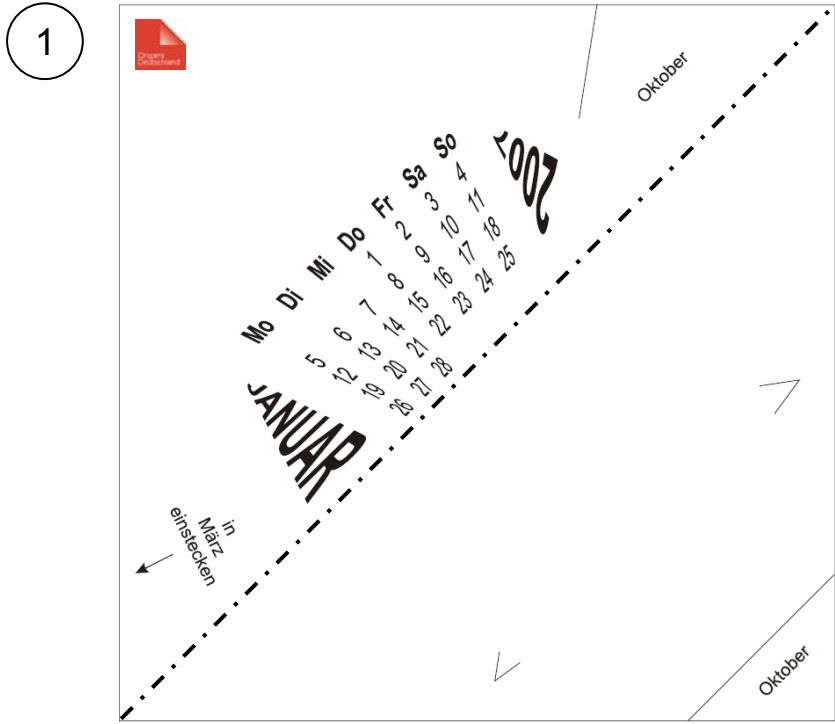| Su	M	Tu	W	Th	F	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

insert into
September
unit

January

December

MAY

Su M Tu W Th F Sa
1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
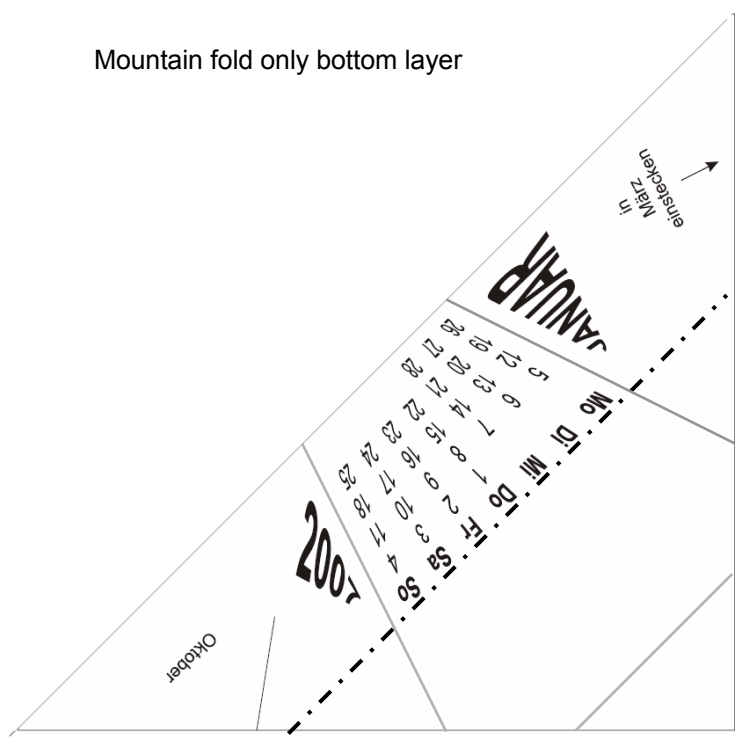25 26 27 28 29 30 31

2016

February

February

insert into
July
unit

1

Oktober

Mo Di Mi Do Fr Sa So

2007

JANUAR

in
März
einstecken

Oktober

2

Oktober

3a

Both layers

Oktober

3b

Only top layer

4a

Calendar is
on this area
on the back
side !

4b

4c

5 Mountain fold only bottom layer

in März einstecken

JANUAR

Mo Di Mi Do Fr Sa So

2007

Oktober

6 Mountain fold the existing crease through all layers

in März einstecken

JANUAR

Oktober

Mo Di Mi Do Fr Sa So

2007

Oktober

Unit is finished !
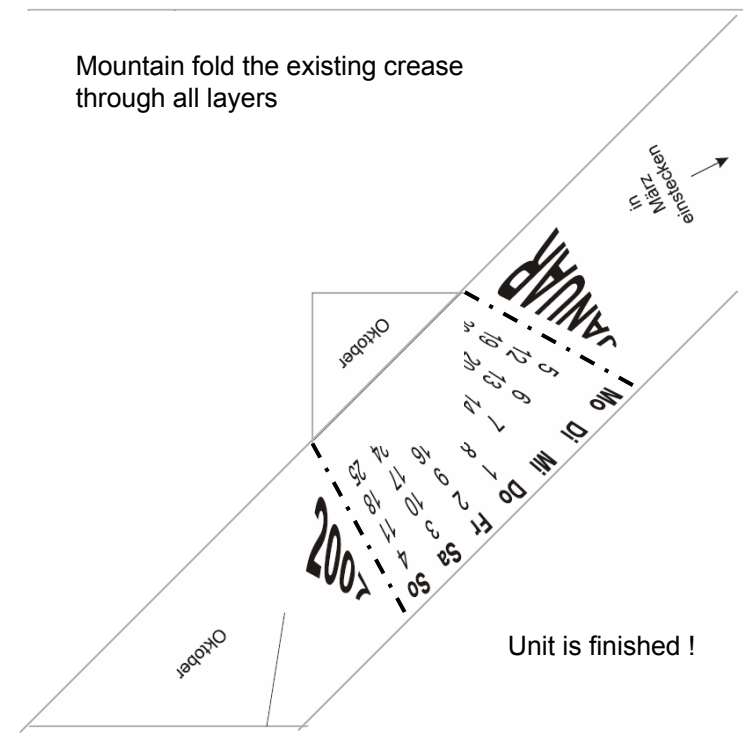
Folding Diagram page 2

7a Put the flap of unit 2 into the pocket of unit 1
Note: The month written on the flap of unit 2 refers to the unit with the imprinted name of this month with expanded font (unit 1)

7b Put the outer edge of unit 2 to the marking line of unit 1. Fold the supernatant little flaps over and put them into the pockets.

7c Put the outer edge of unit 1 to the marking line of unit 2. Fold the supernatant little flaps over and put them into the pockets
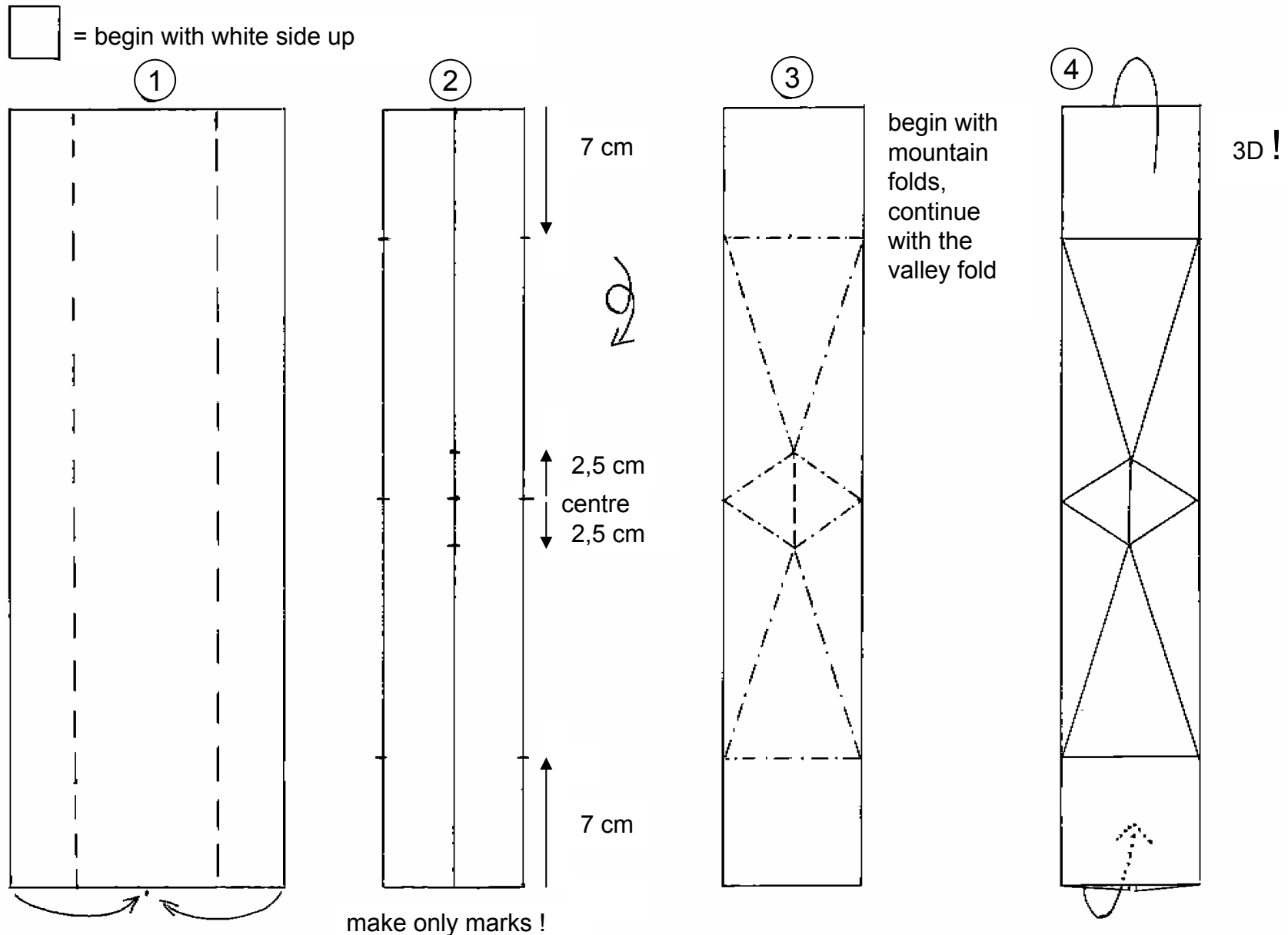
unit 1

Assembly

unit 2
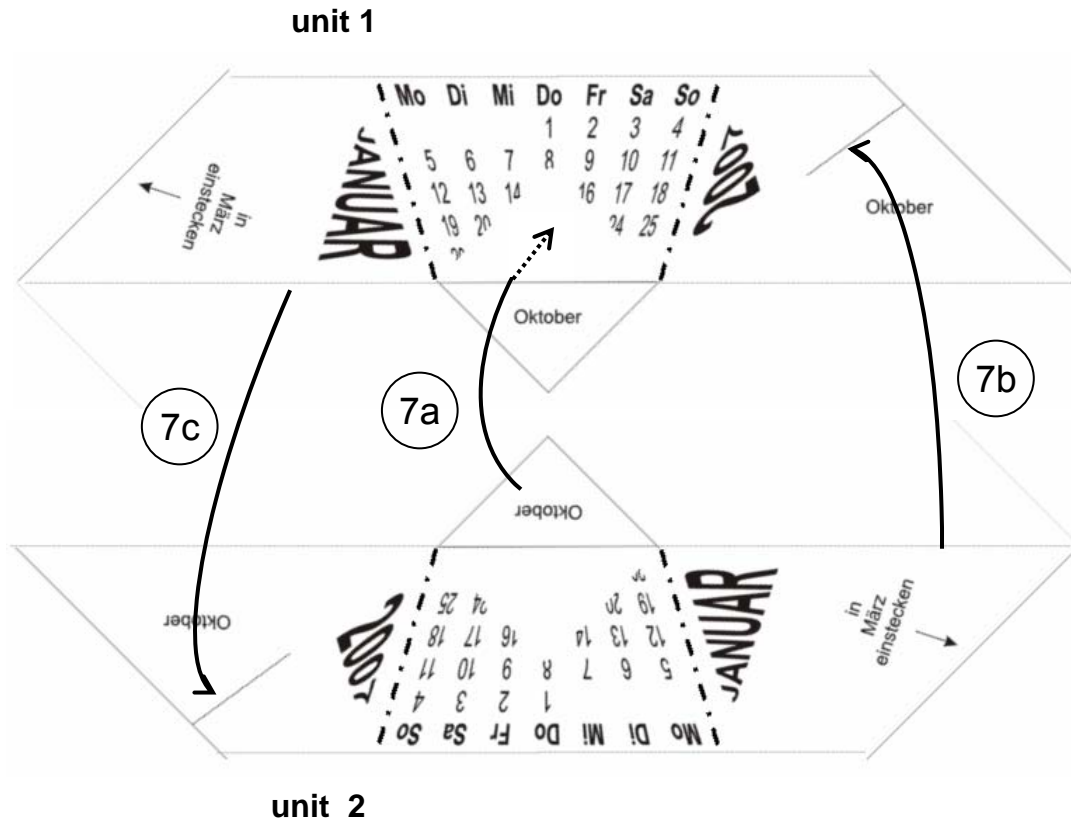
8 Make 6 of these „duo-units"

9 Put the „duo-units" together to finish the Pentagon
Note: The advice „put into pocket of month" means, that the flap of the unit with this advice is put into the pocket of the unit with imprinted name of the month with expanded font

Paper with imprinted name of the month ...	Coloured calendar with 1 colour	Coloured calendar with 3 colours	Coloured calendar with 6 colours	Coloured calendar with 12 colours
March	Colour 1	Colour 1	Colour 1	Colour 1
June	Colour 1	Colour 1	Colour 6	Colour 2
September	Colour 1	Colour 1	Colour 6	Colour 3
December	Colour 1	Colour 1	Colour 1	Colour 4
November	Colour 1	Colour 2	Colour 2	Colour 5
August	Colour 1	Colour 2	Colour 5	Colour 6
May	Colour 1	Colour 2	Colour 5	Colour 7
February	Colour 1	Colour 2	Colour 2	Colour 8
October	Colour 1	Colour 3	Colour 3	Colour 9
January	Colour 1	Colour 3	Colour 4	Colour 10
April	Colour 1	Colour 3	Colour 4	Colour 11
July	Colour 1	Colour 3	Colour 3	Colour 12

Suggestion for multi-coloured calendars

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Recommendation: Pay attention to sufficient contrast between colour of the paper and the imprinted calendar, for best result do not use dark paper

Folding Diagram for a calendar holder „column"
(a variation of the „chopstick holder " by Didier Boursin)

= begin with white side up

1

2

7 cm

2,5 cm

centre

2,5 cm

7 cm

make only marks !

3

begin with mountain folds, continue with the valley fold

4

3D !

Suggestion for paper format: ½ of DIN A 3 = 42 cm x 14,8 cm, best result with 160g-paper,
Suggestion for colour: black paper (coloured on both sides)

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Background-Information: geometrical basis
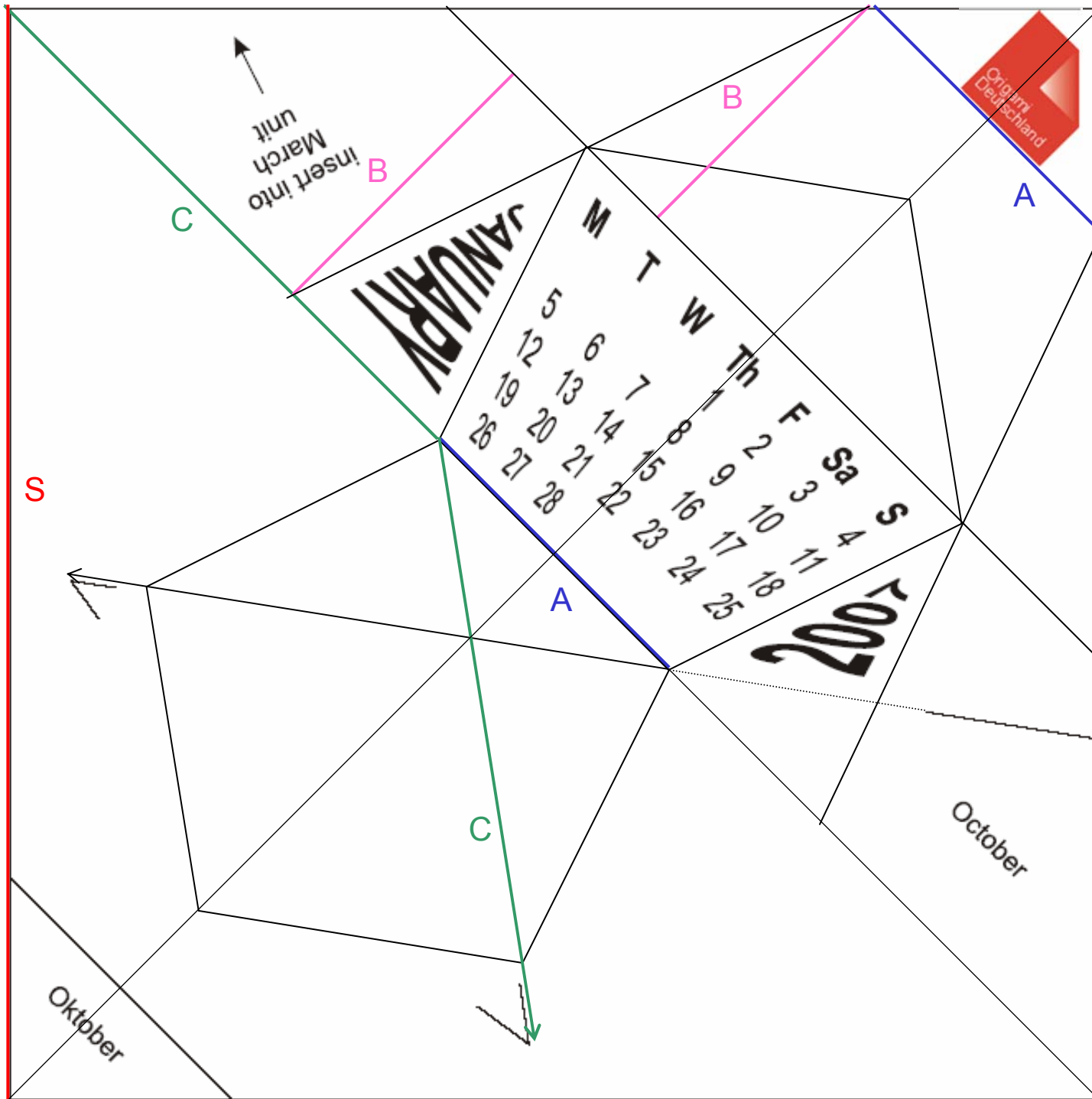
For a given regular pentagon with side length „**A**" the size of the square is the following:

The "height" of the Pentagon from the bottom line up to the broadest place „**B**" (1st parallel line to the diagonal line of the square) is duplicated (2nd parallel line to the diagonal line).

The length of this diagonal line is „**A**". On top we put another right-angled triangle. This entire construction make up 1/2 of the length of the diagonal line of the final square.

The side length „**S**" of the final square results as:

$$S = 2 \times \sqrt{\frac{(2B + 0{,}5A)^2}{2}}$$

The position of the arrows is:

You take an arrow with length: From an edge of the square to the beginning of the bottom edge of the pentagon „**C**" and twist it that it starts at the bottom edge of the pentagon and points through the meeting point of the 1st parallel line with the pentagon. The end of the arrow is the "magic" point we looked for.