

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/>

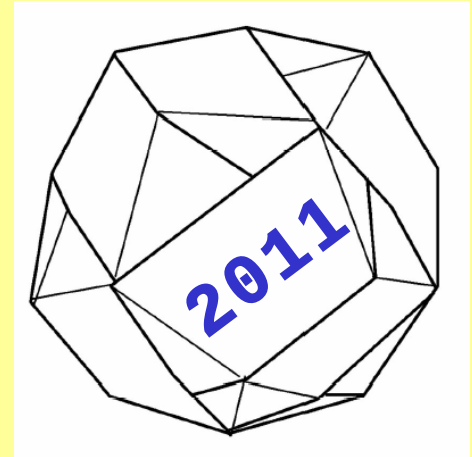


Centro Diffusione Origami

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 again **for 2011** for the members and all friends of Origami Deutschland.

Happy folding

Stefan Delecat and Matthias Eichel



January



MARCH

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

insert into
February
unit

June



June

February



JANUARY

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					

2017

insert into
March
unit

October



Oktober

March



FEBRUARY

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		

2017

insert into
January
unit

May

May

April



March

JUNE

Su	M	Tu	W	Th	F	Sa
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

2017

insert into
August
unit

March

May



JULY

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				

2017

insert into
December
unit

April

April

June



AUGUST

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		

2017

insert into
April
unit

November

November

July



September

2017

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

insert into
May
unit

September

August



APRIL

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

2017

insert into
June
unit

July



July

September



August

NOVEMBER

Su	M	Tu	W	Th	F	Sa
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	

2017

insert into
October
unit

August

October



CALENDAR GRID (rotated 45 degrees):

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

insert into
November
unit

December

December

November



Diagram of a calendar unit for October and November. The unit is a large rectangle divided into two main sections. The top section is labeled "OCTOBER" and contains a calendar grid. The bottom section is labeled "November" and contains a large "2017" graphic. The grid shows the days of the week (Su, M, Tu, W, Th, F, Sa) and the dates (1-30). The "2017" graphic is a large, stylized number.

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

insert into
September
unit

January

January

December



February

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

2017

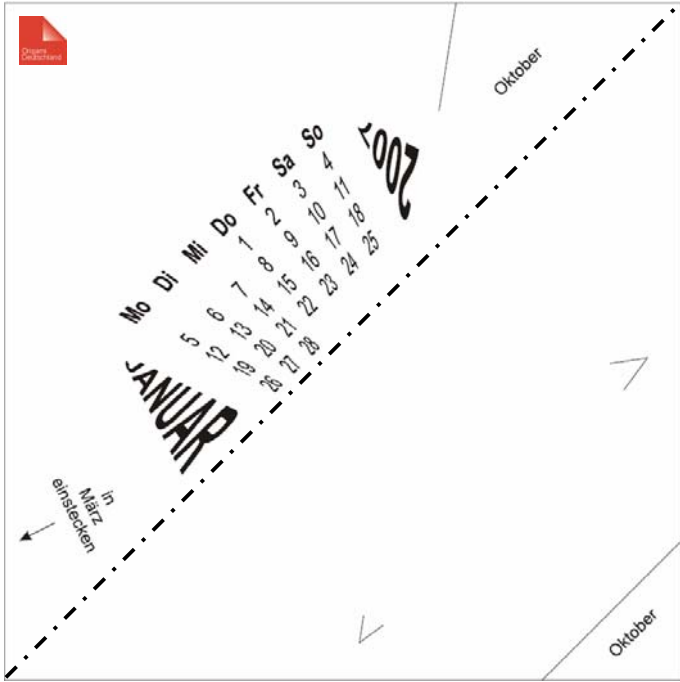
insert into
July
unit



February

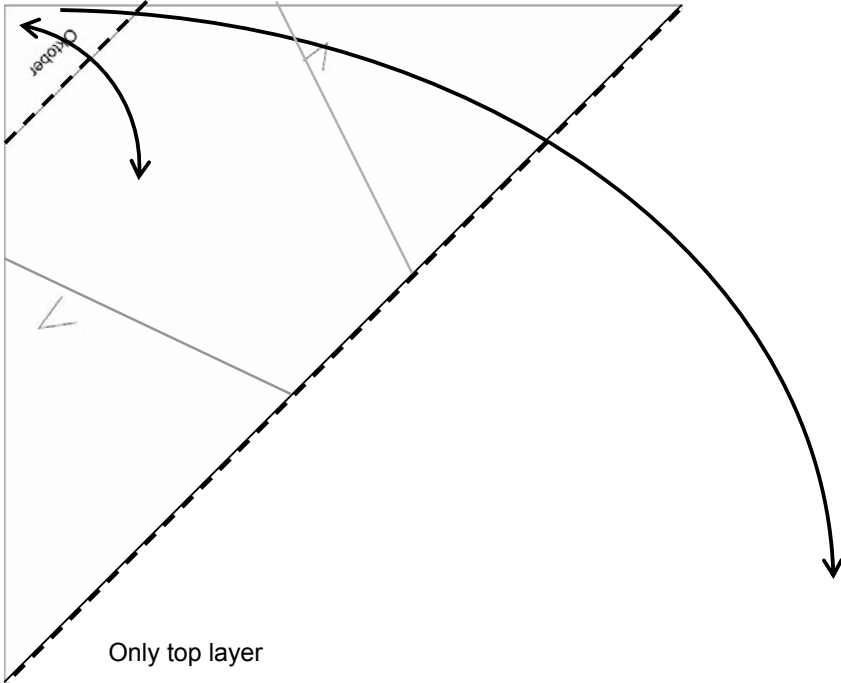
Folding Diagram page 1

1



3a

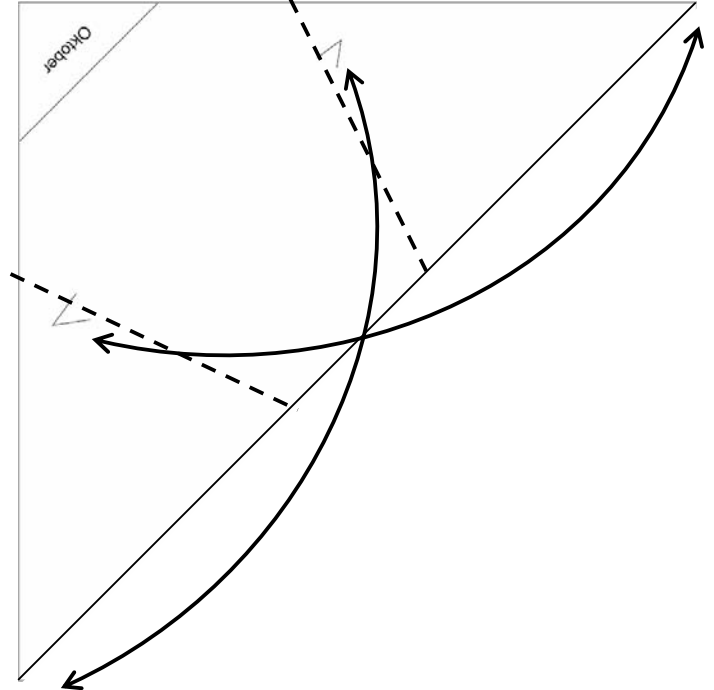
Both layers



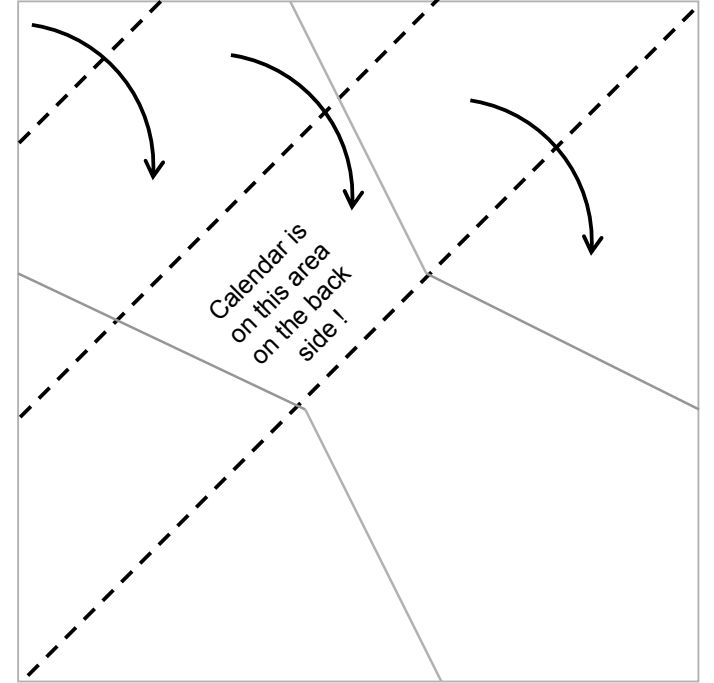
3b

Only top layer

2



4a

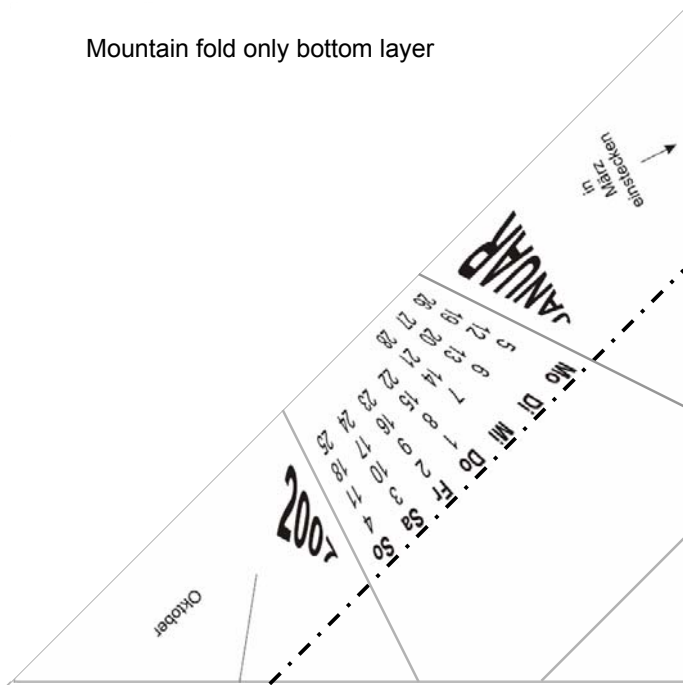


4b

4c

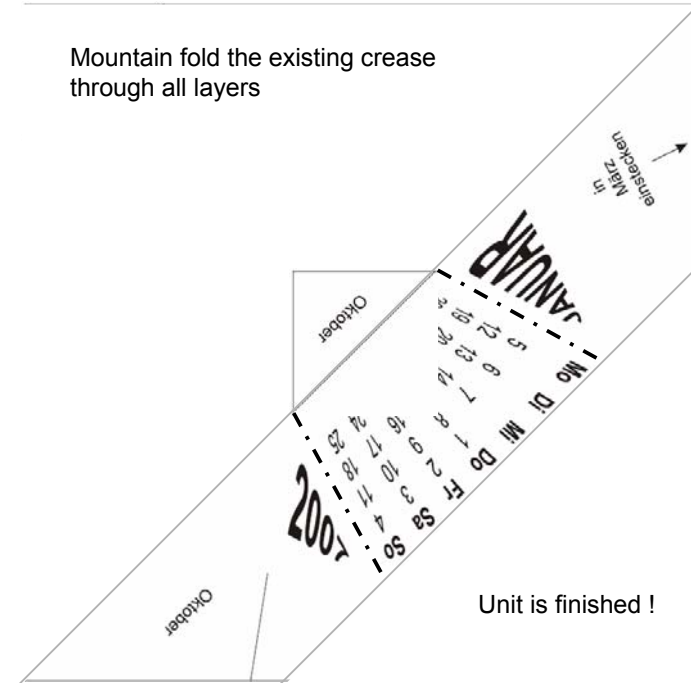
5

Mountain fold only bottom layer



6

Mountain fold the existing crease through all layers



Folding Diagram page 2

7a

Put the flap of unit 2 into the pocket of unit 1

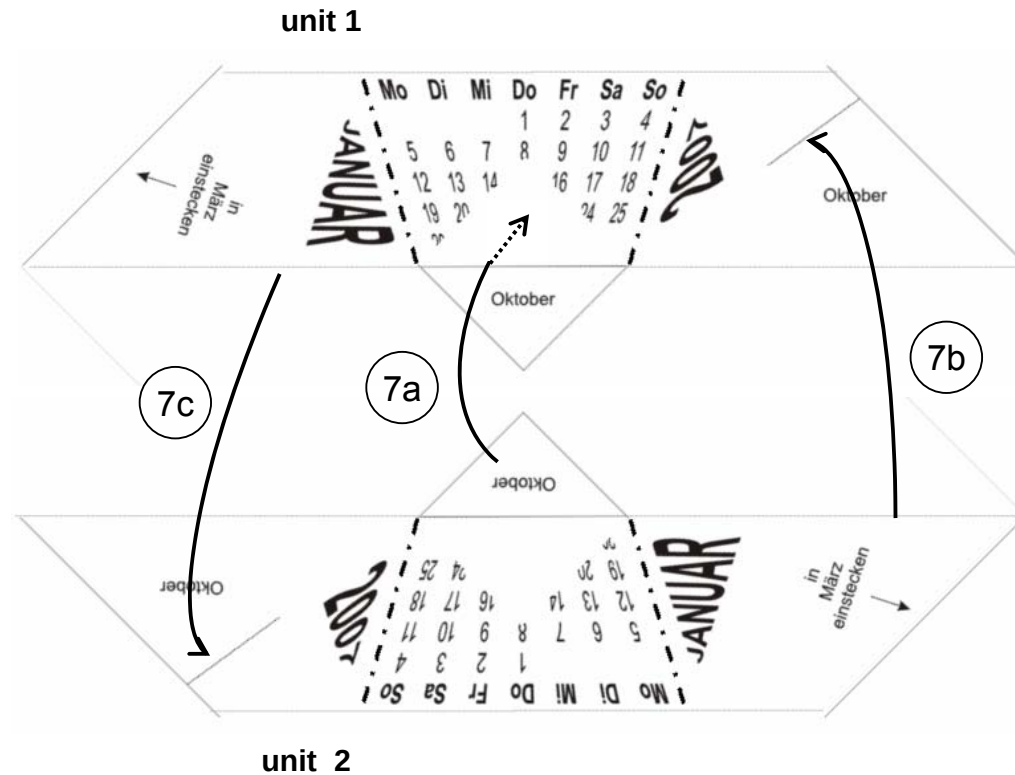
Note: The month written on the flap of unit 2 refers to the unit with the imprinted name of this month with expanded font (unit 1)

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



Assembly

8

Make 6 of these „duo-units“

9

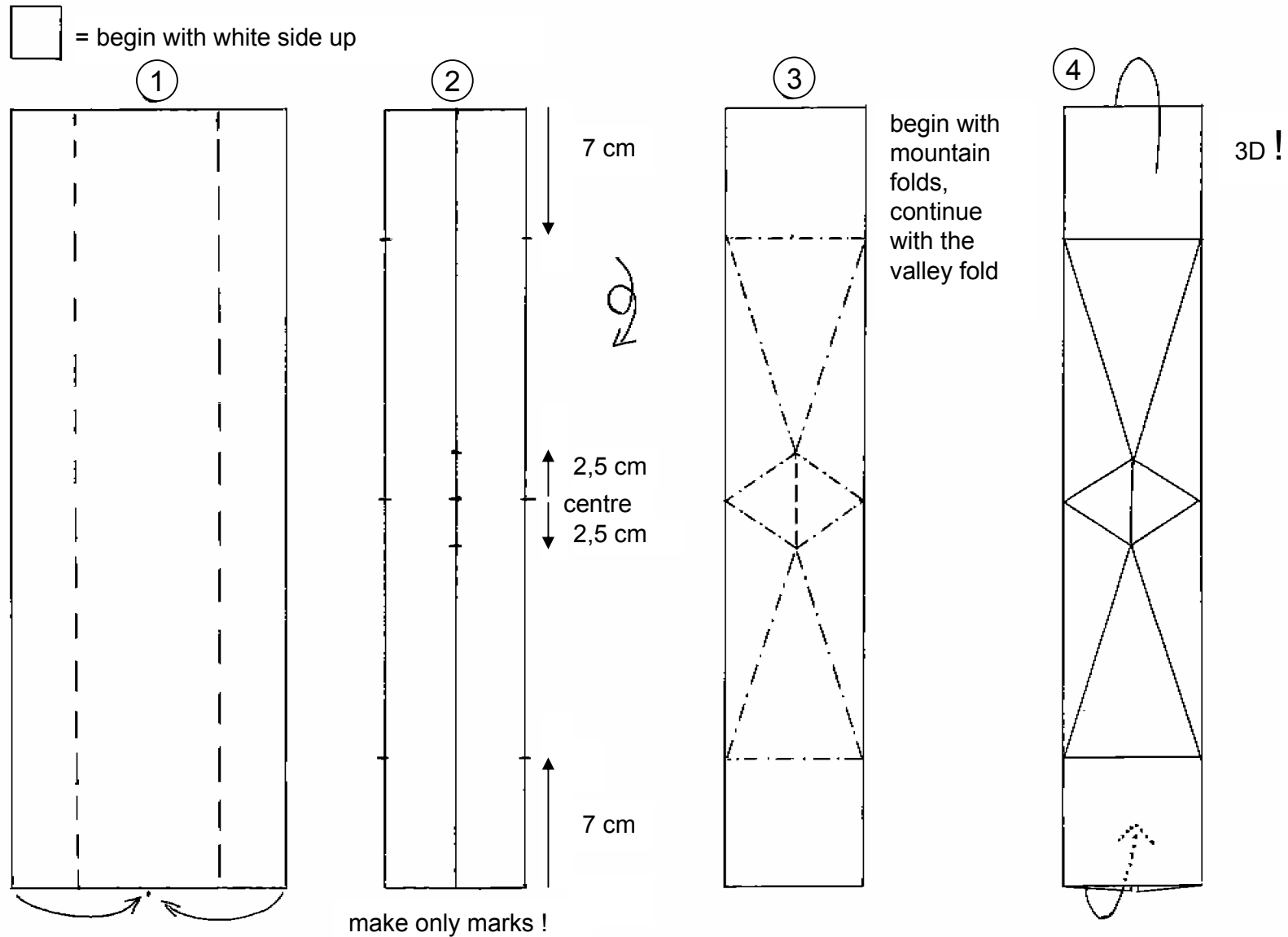
Put the „duo-units“ together to finish the Pentagon

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

Suggestion for multi-coloured calendars

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

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



Suggestion for paper format: $\frac{1}{2}$ of DIN A 3 = 42 cm x 14,8 cm, best result with 160g-paper,
Suggestion for colour: black paper (coloured on both sides)

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.

