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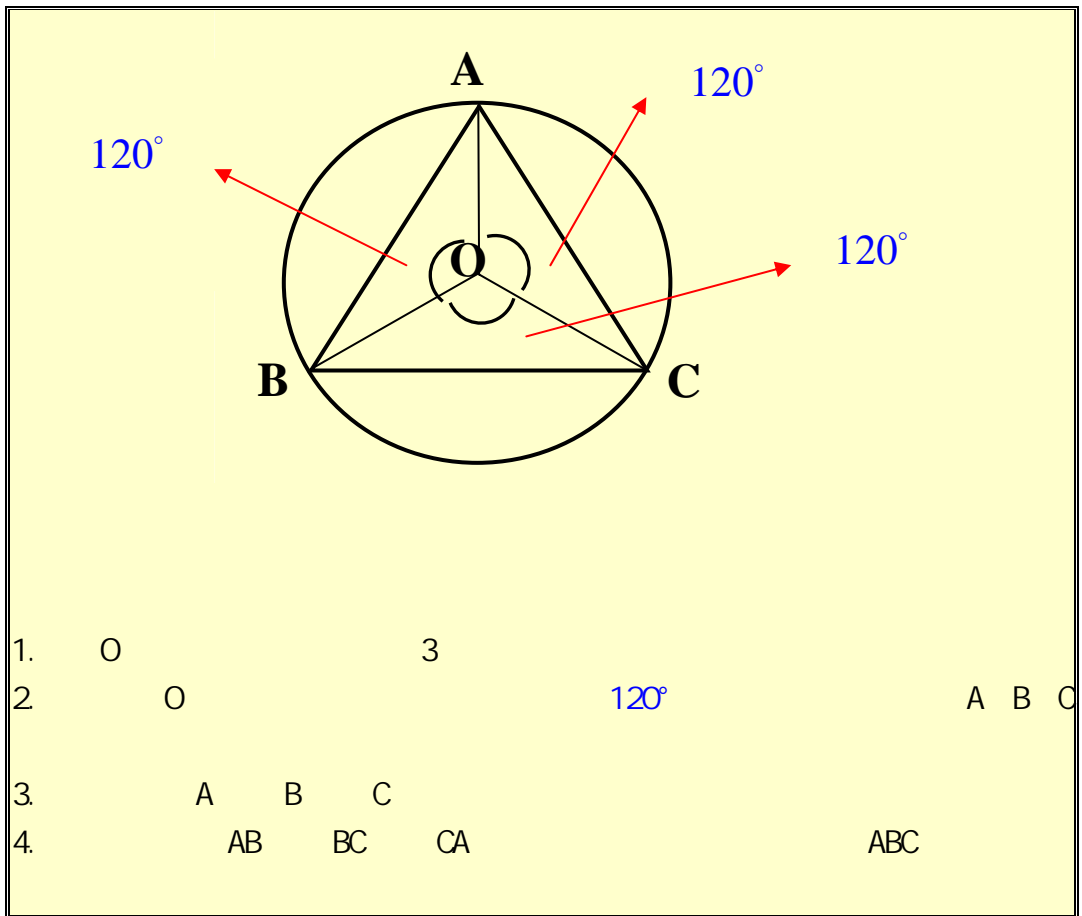
$$\begin{array}{ccccccc} & & 360 & & & & \\ & & & & (3n^2 - 3n) \div 2 & 1 & (4n^2 \\ 4n) \div 2 & 1 & 3n^2 - 3n & 1 & & & \\ & & & & 3 & & 360^\circ \end{array}$$

$$n^2 = n \times n \quad n$$

()
1.

3
120°

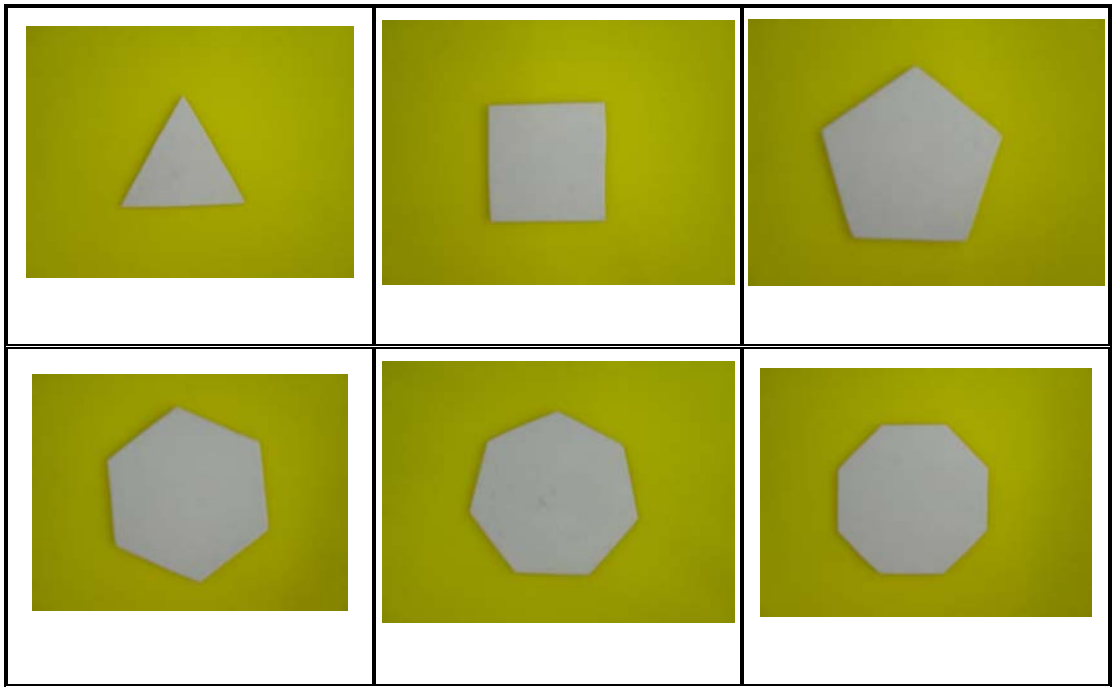
()



2

()

40



(一)

1-1

1.

)

(

2

()

3.

)

(

4.

)

(

5.

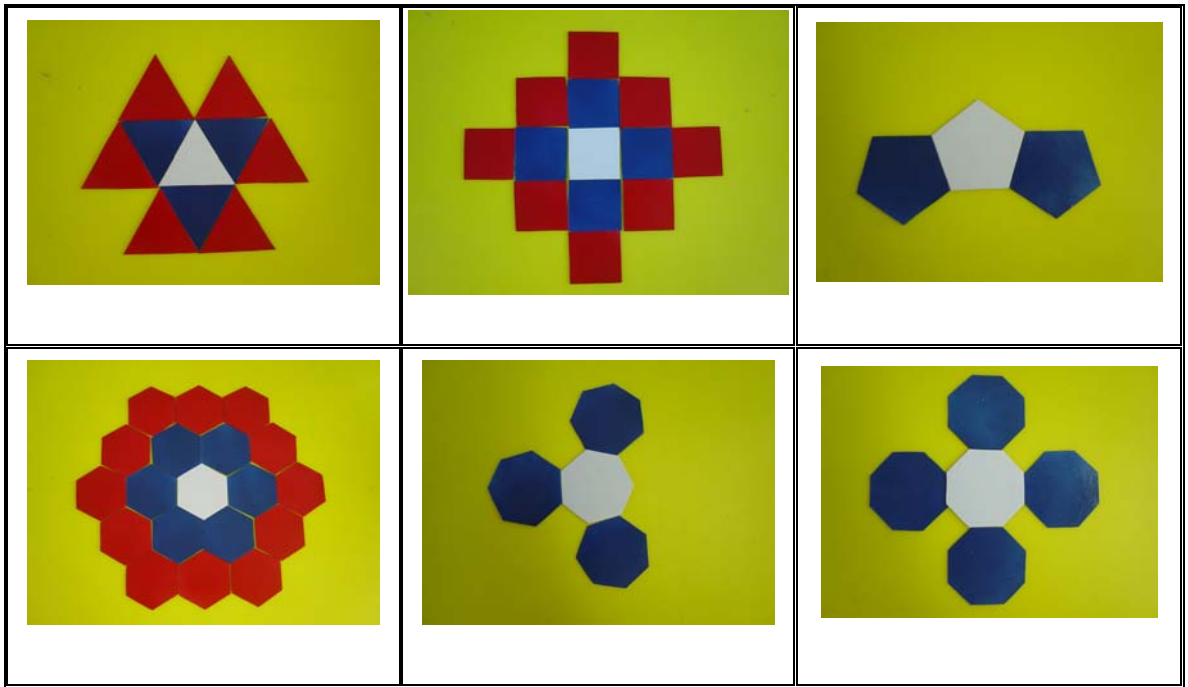
)

(

6.

)

(



1-1-3

1-2

1.

n

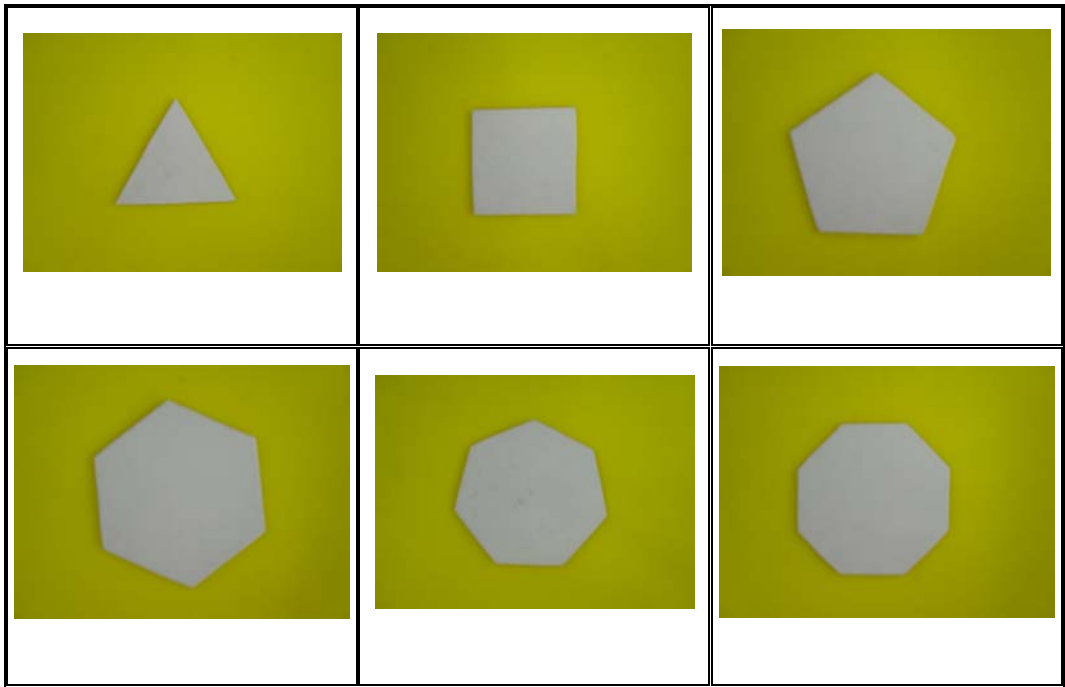
2.

n

3.

n

()

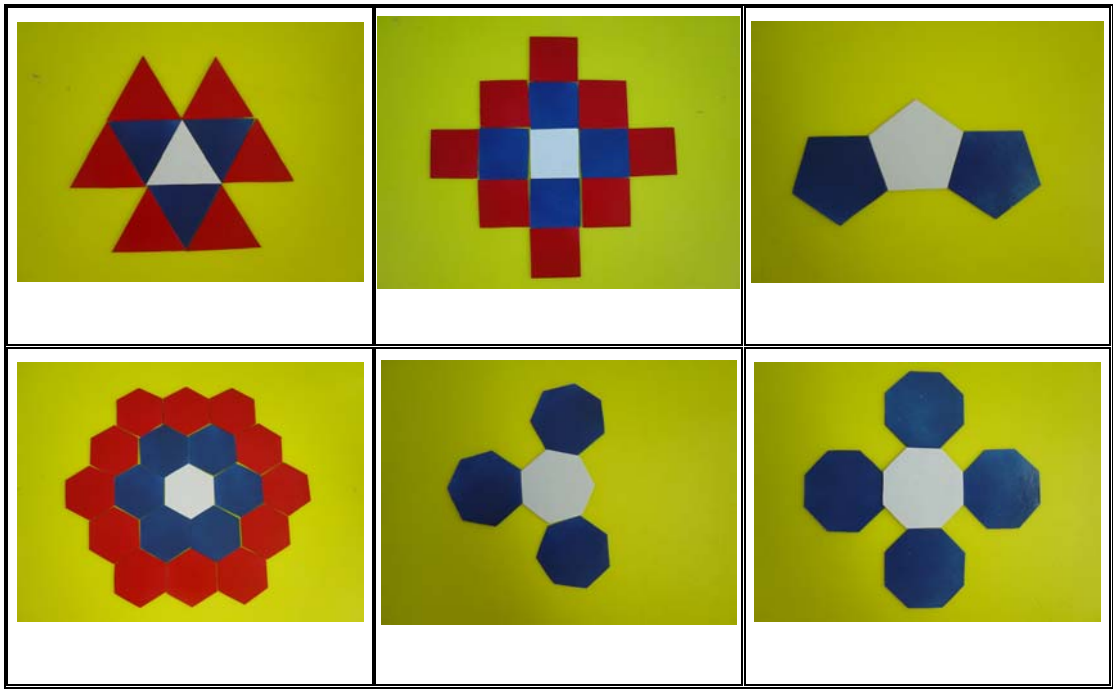


2-1

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.

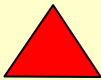
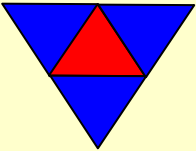
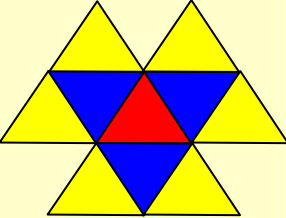
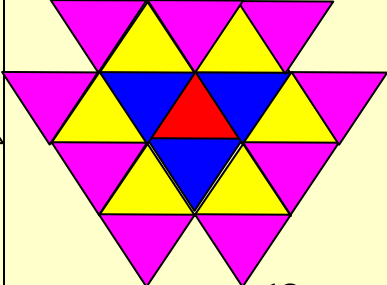



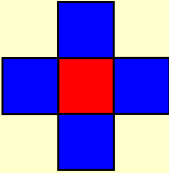
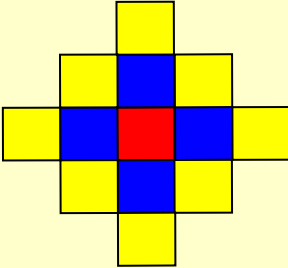
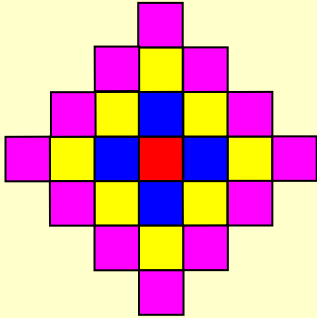
1 1


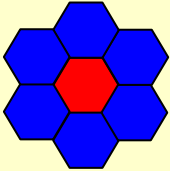
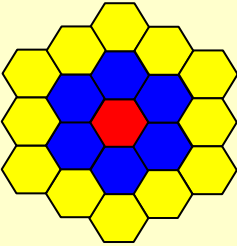
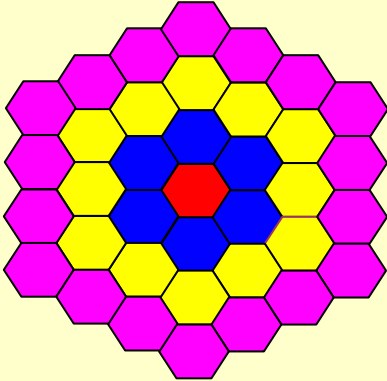


1 2

		1		3
	6		9	
8		1		4
	12	12		6
		1	18	

1	3	6	9
			
1	4	10	19

1	4	8	12
			
1	5	13	25

1	6	12	18
			
1	7	19	37

- 1.
- 2.

/		
		4
		6
		8
		12
		20

1 1.

360°

180°

90° (360 ÷ 4)

60° (180 ÷ 3)

360

180°

6

4

2

5

3

	2	3	4	5	6

1-2-6

n

$180^\circ \times (n - 2) \div n$

n

$180^\circ \times (n - 2)$

(n - 2)

n

360

360

360

360

1 2 3 4 5 6 8 9

10 12 15 18 20 24 30 36 40 45 60 72 90 120 180 360

24

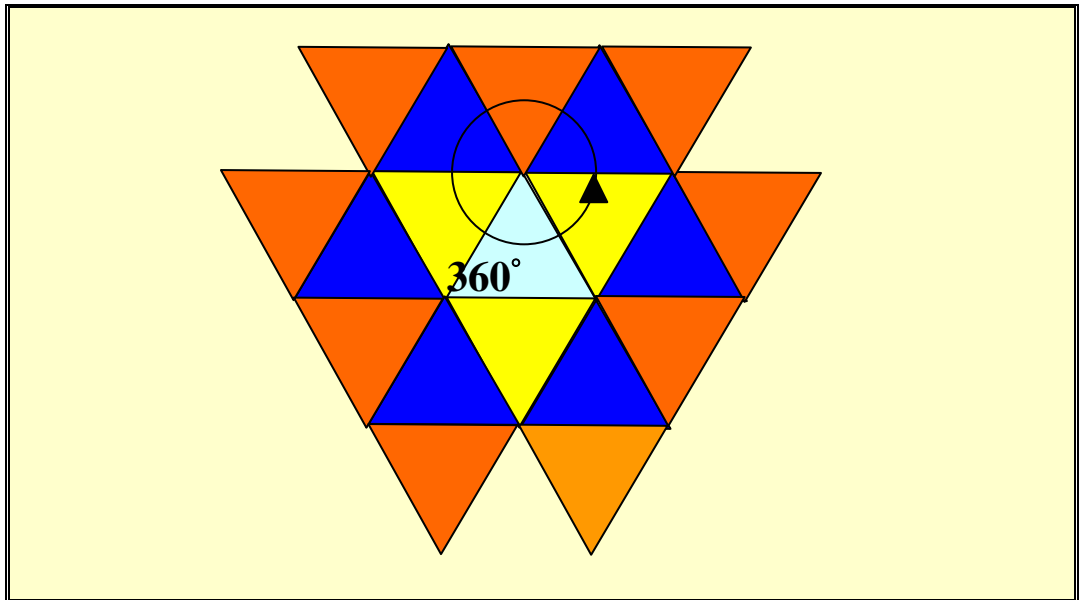
n		n
	$180^\circ \times (3 - 2) \div 3$	60°
	$180^\circ \times (4 - 2) \div 4$	90°
	$180^\circ \times (5 - 2) \div 5$	108°
	$180^\circ \times (6 - 2) \div 6$	120°
	$180^\circ \times (7 - 2) \div 7$	128.57°
	$180^\circ \times (8 - 2) \div 8$	135°
	$180^\circ \times (9 - 2) \div 9$	140°
	$180^\circ \times (10 - 2) \div 10$	144°
	$180^\circ \times (11 - 2) \div 11$	147.27°
	$180^\circ \times (12 - 2) \div 12$	150°

60 90 120 360
1-2-7 n

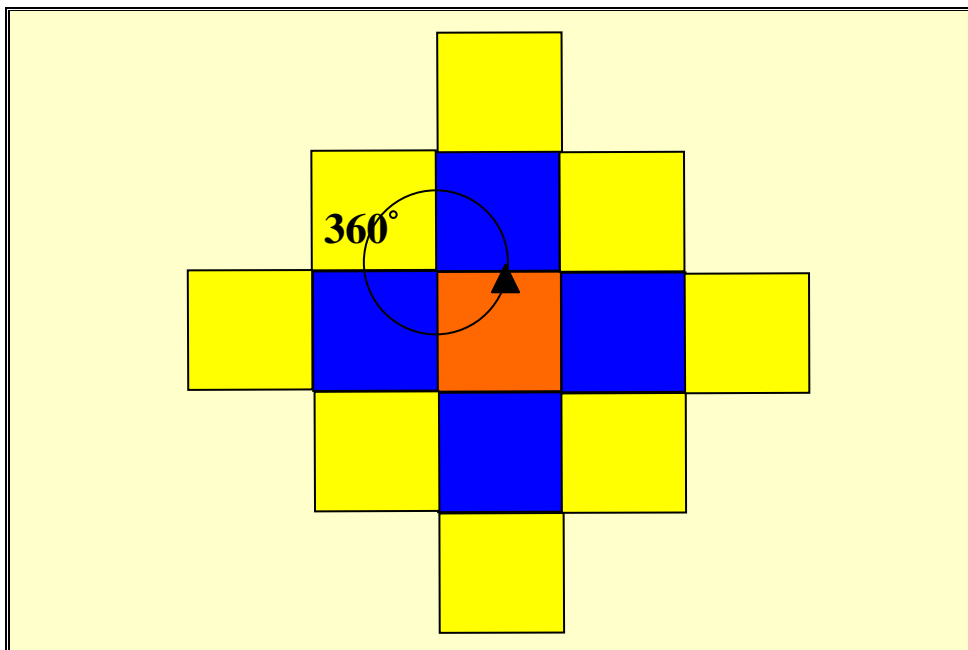
150° n
120° 360 120 180 360
n
180° 360° n
180°
180° 360°

1-1

$360^\circ (\quad)$



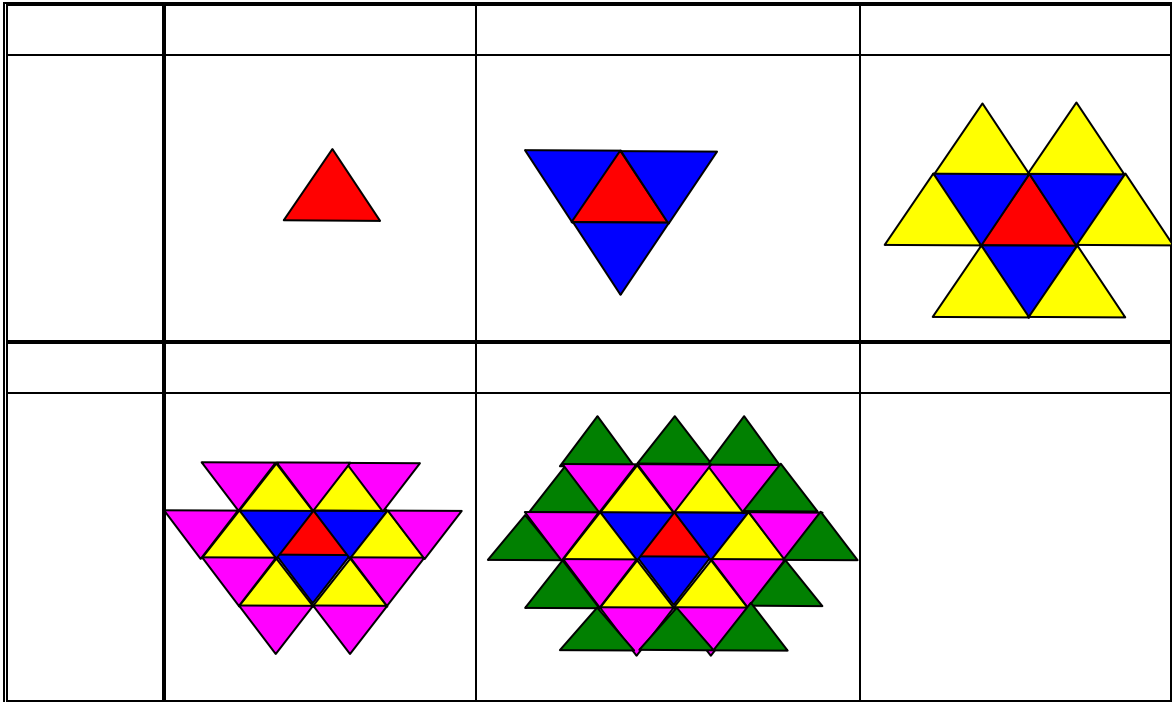
360° ()



360° ()

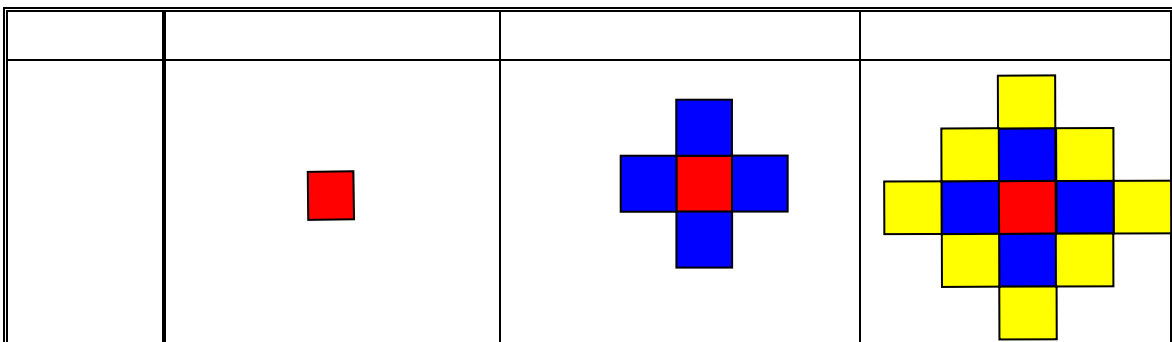
1 2

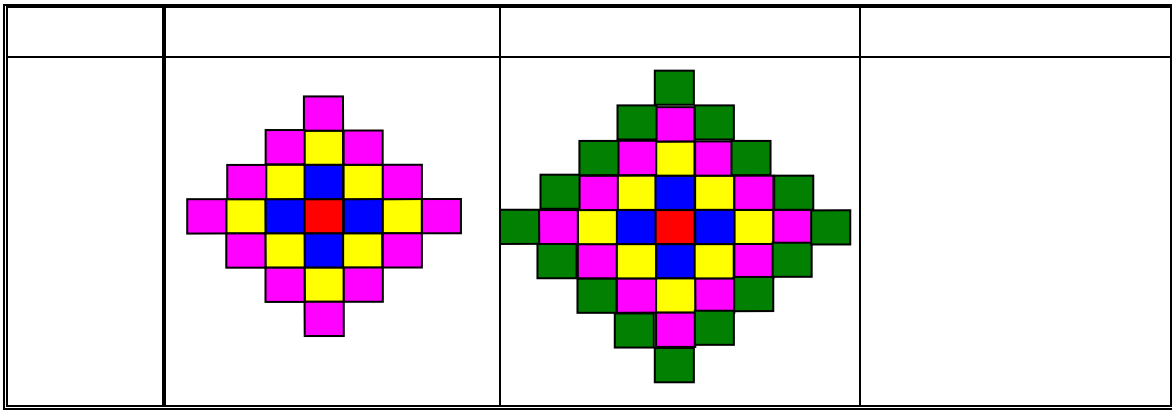
(一)



	1	1
	2+1	3
	2+2+2	6
	3+2+2+2	9
	3+2+2+2+3	12
	4+2+2+2+2+3	15
	4+2+2+2+2+2+4	18
	1+2=3	
n		3x n-1

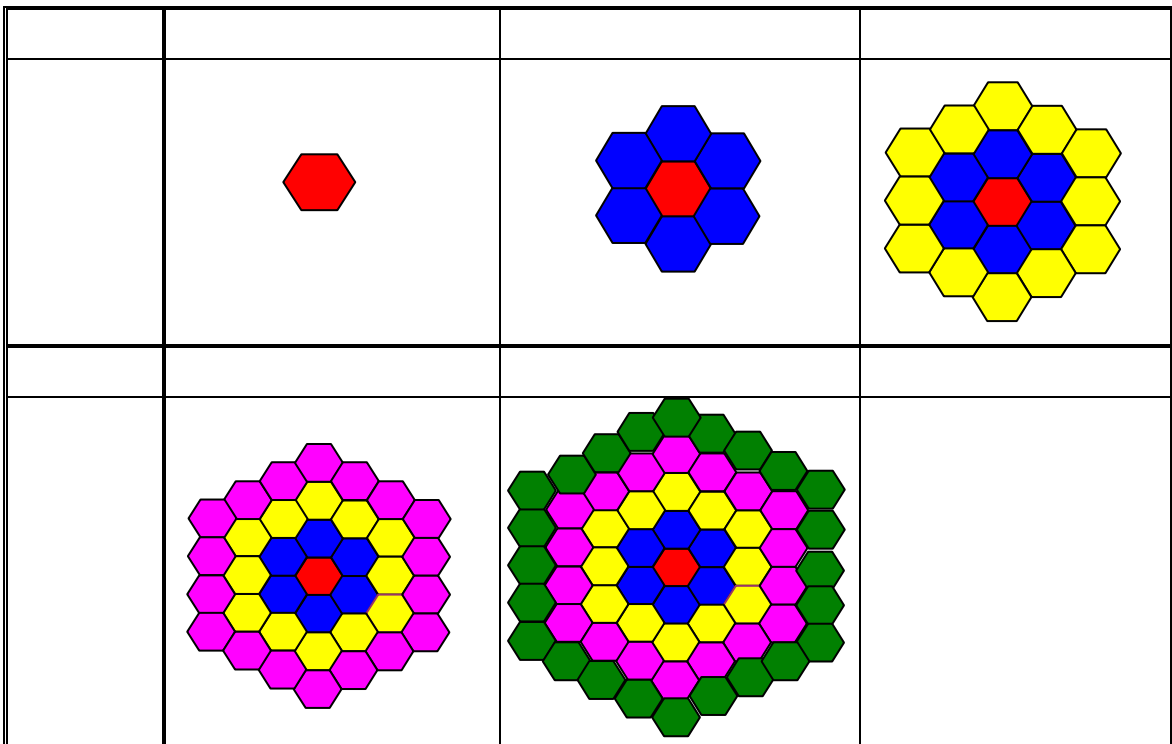
(二)





	1	1
	1+2+1	4
	1+2+2+2+1	8
	1+2+2+2+2+2+1	12
	1+2+2+2+2+2+2+2+1	16
	1+2+2+2+2+2+2+2+2+2+1	20
	1+2+2+2+2+2+2+2+2+2+2+2+1	24
	2+2=4	
n		4x n-1

(三)



	1	1
	2×6-6(2)	6
	3×6-6(3)	12
	4×6-6(4)	18
	5×6-6(5)	24
	6×6-6(6)	30
	7×6-6(7)	36
n		6× n-1

()

所需圖形種類 所需圖形個數			
	3	4	6
	6	8	12
	9	12	18
	12	16	24
	15	20	30
	18	24	36
	21	28	42
	24	32	48
	27	36	54
	30	40	60
n	3 ×(n 1)	4 ×(n 1)	6 ×(n 1)

30 3 6 9 12 15 18 21 24 27 3

3

4 8 12 16 20 24 28 32 36 40

4

6 12 18 24 30 36 42 48 54 60

6

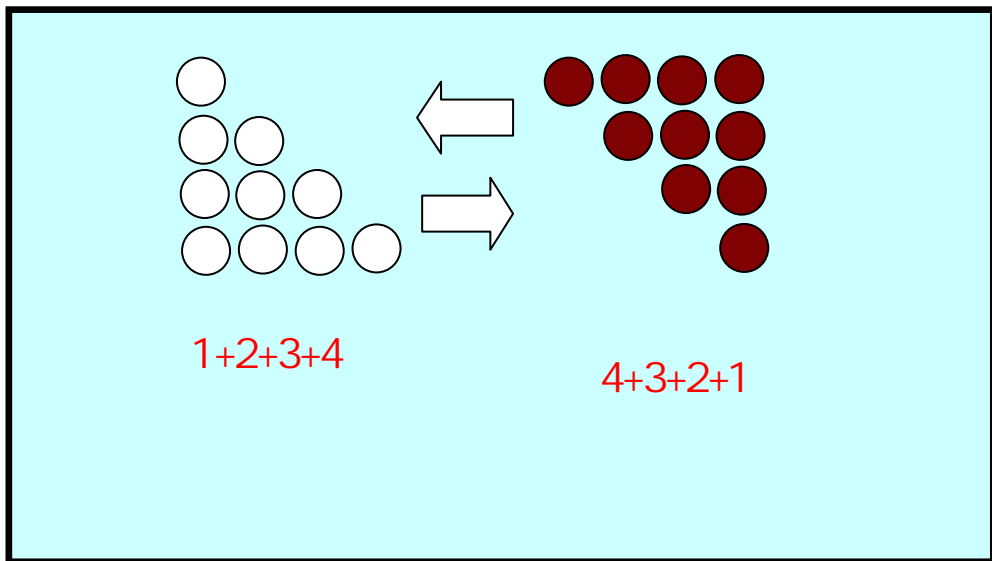
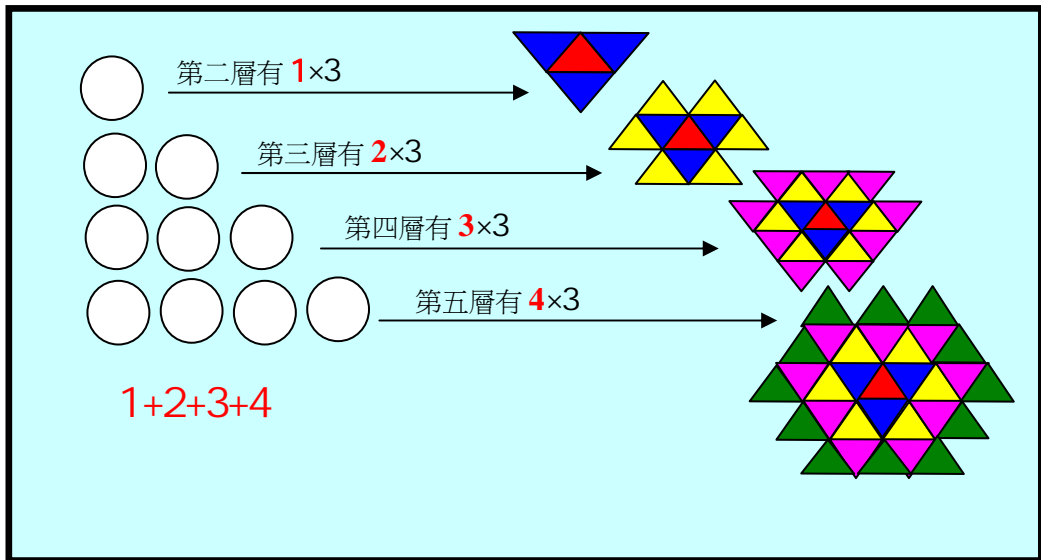
1x3 2x3 3x3 4x3

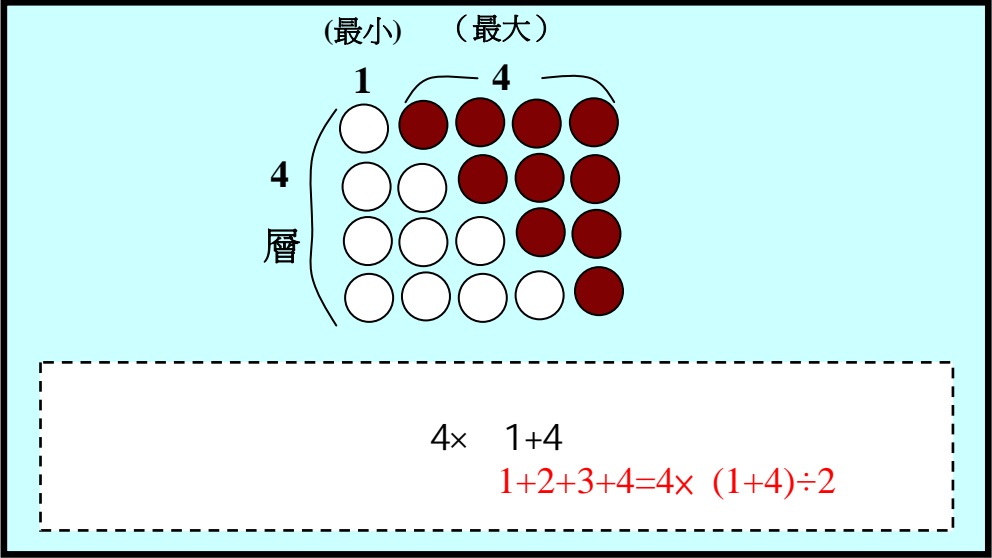
$1 \times 3 + 2 \times 3 + 3 \times 3 + 4 \times 3 = (1 + 2 + 3 + 4) \times 3$

1 3 2 3 3 3 4

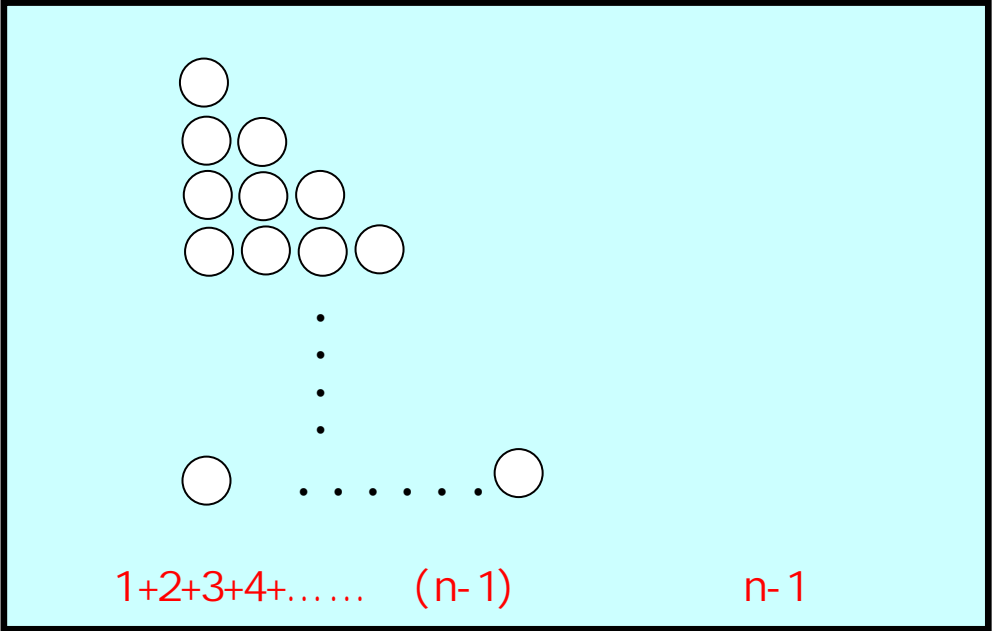
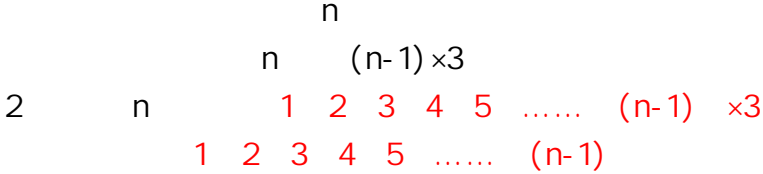
3

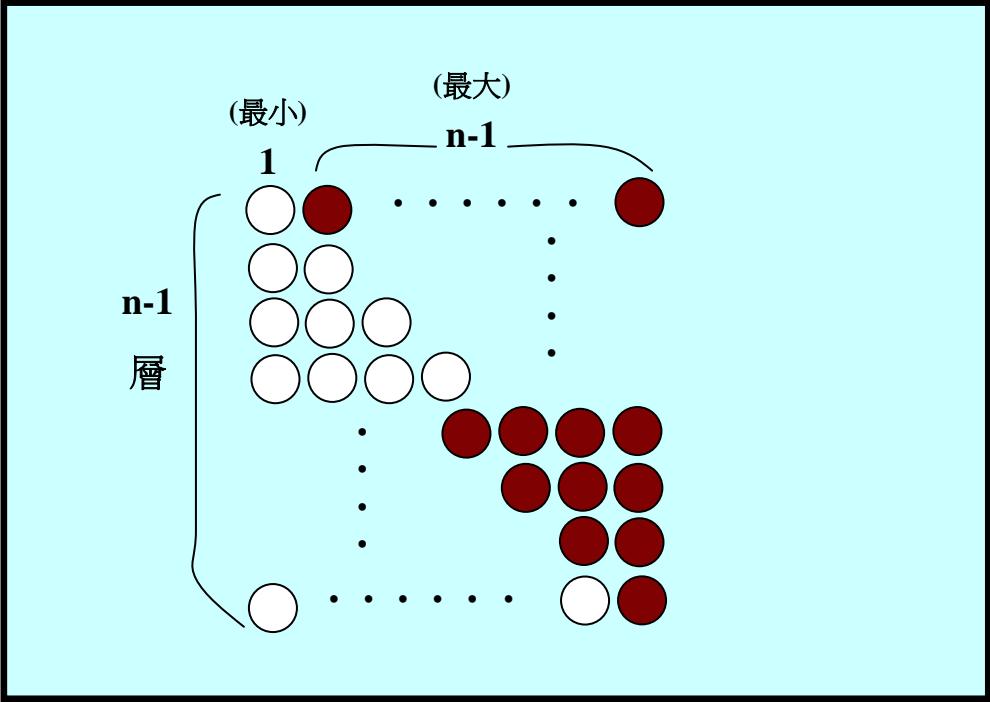
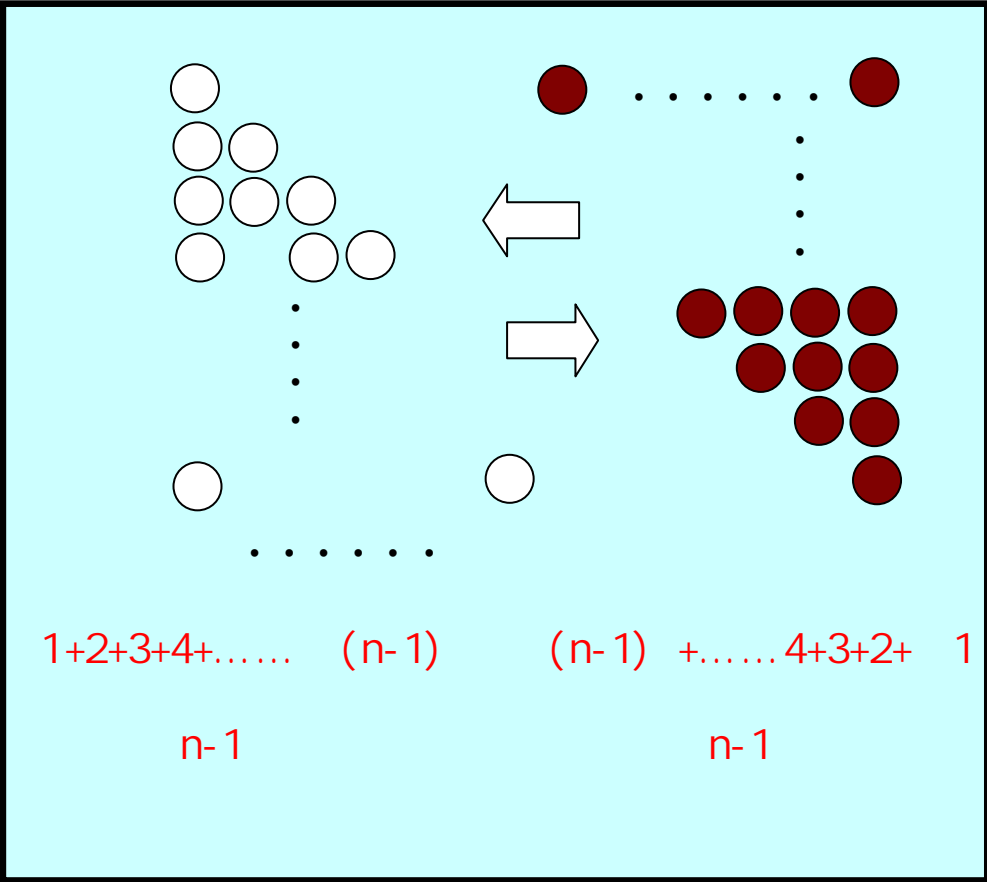
1+2+3+4





$3 \times (1+4) \times 4 \div 2$ 】





$$(n-1) \quad (n-1) \times 1 \quad 2$$

$$1+2+3+4+5+\dots+(n-1) = (n-1) \times \frac{1}{2} (n-1) \div 2 = (n-1) \times n \div 2 = (n^2 - n) \div 2$$

$$3 \times (n^2 - n) \div 2 = (3n^2 - 3n) \div 2$$

$$\div 2 \quad (3n^2 - 3n) \div 2 \quad 1$$

$$4 \times (n-1) \times \frac{1}{2} (n-1) \div 2 \quad 6 \times ((n-1) \times \frac{1}{2} (n-1)) \div 2$$

$$n \quad 4 \times (n-1) \quad 4 \quad n \quad 4 \times (n-1)$$

$$(4n - 4) \quad 4 \times (n-1) \times \frac{1}{2} (n-1) \div 2 \quad (4n^2 - 4n) \div 2 \quad 1$$

$$n \quad 11 \quad (4 \times 11 \times 11 - 4 \times 11) \div 2 \quad 1 \quad 221$$

$$(1 - 2 - 8)$$

$$1 \quad 4 \quad 8 \quad 12 \quad 16 \quad 20 \quad 24 \quad 28 \quad 32 \quad 36 \quad 40 \quad 221$$

$$n \quad 6 \times (n-1) \quad 6 \quad n \quad 6 \times (n-1)$$

$$6 \times (n-1) \quad (6n - 6) \quad 6 \times ((n-1) \times \frac{1}{2} (n-1)) \div 2 \quad 1$$

$$(n-1) \quad 6 \quad (6n - 6) \times (n-1) \div 2 \quad 1$$

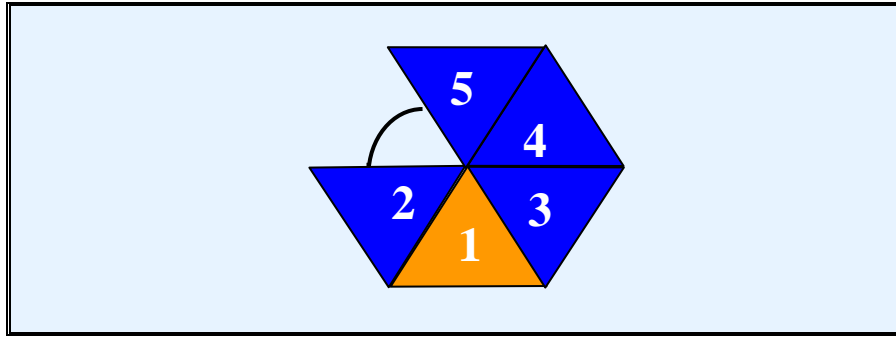
$$(6n^2 - 6n) \div 2 \quad 1 \quad 3n^2 - 3n \quad 1$$

$$n \quad 11 \quad (6 \times 11 \times 11 - 6 \times 11) \div 2 \quad 1$$

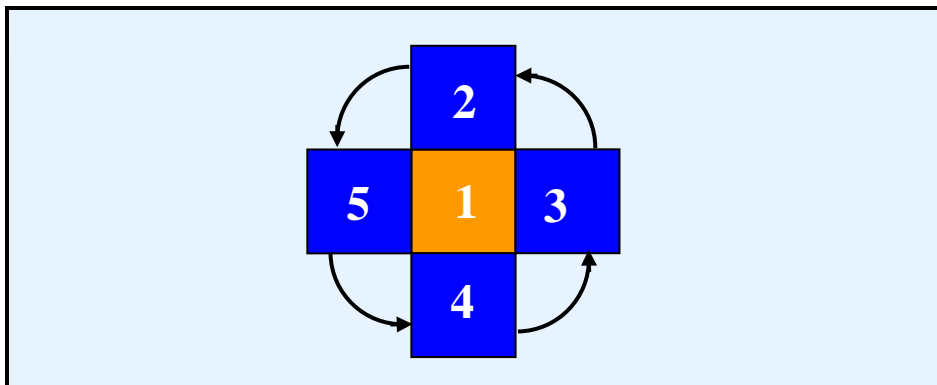
$$(1 - 2 - 9)$$

$$331 \quad 1 \quad 6 \quad 12 \quad 18 \quad 24 \quad 30 \quad 36 \quad 42 \quad 48 \quad 54 \quad 60 \quad 331$$

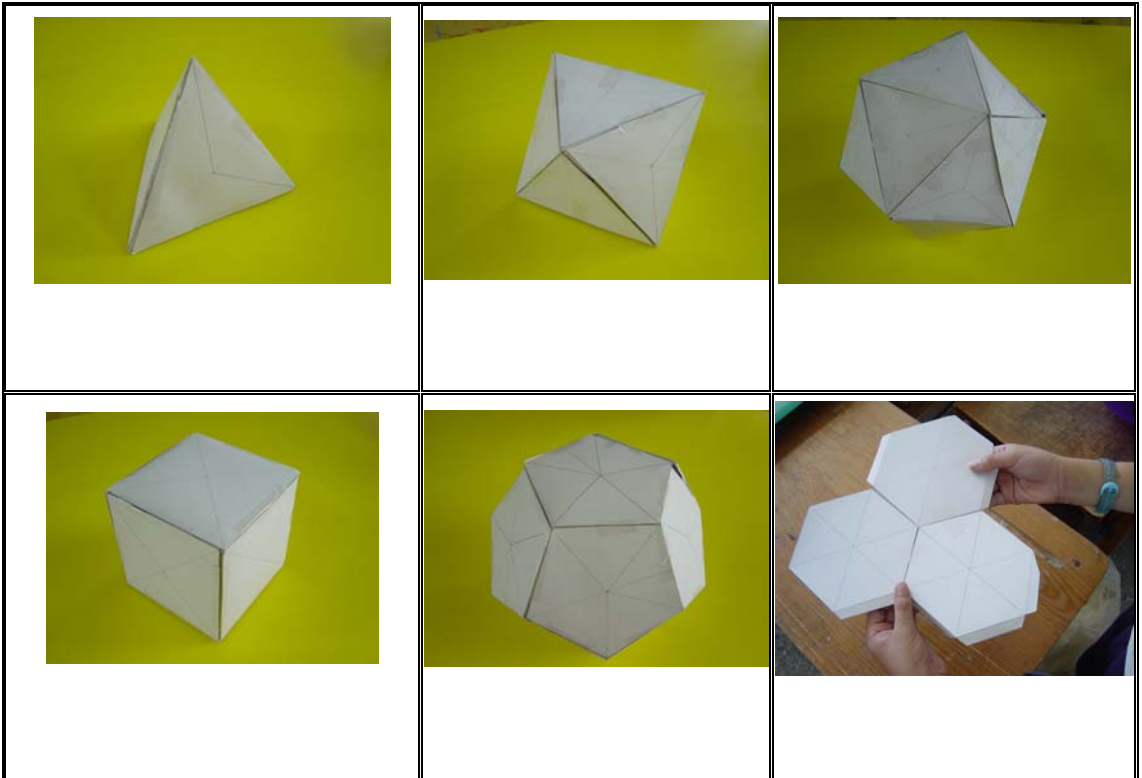
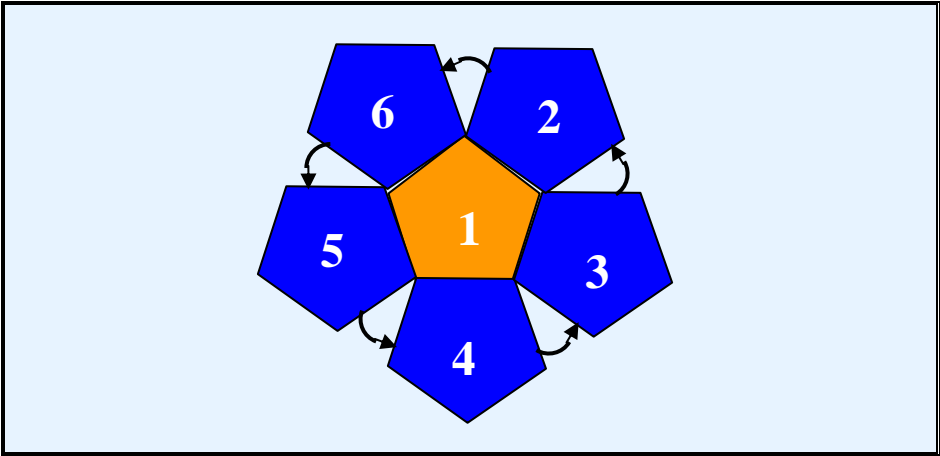


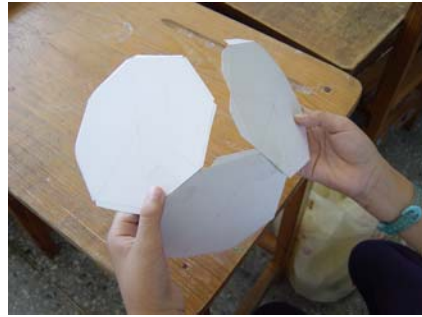
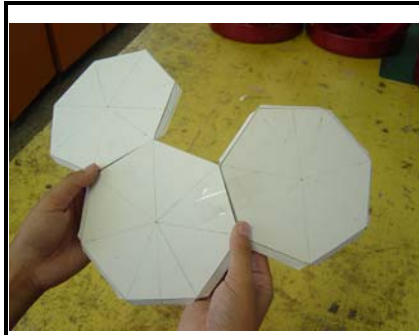


1 1 2
 3 4 2
 3 4 5
 2 3 3 4 4 5
 5 2
 ()



1 1
 2 3 4 5 3
 6 4 5 6 2 5 3
 2 3 4 4
 5 5 6 6 2
 ()

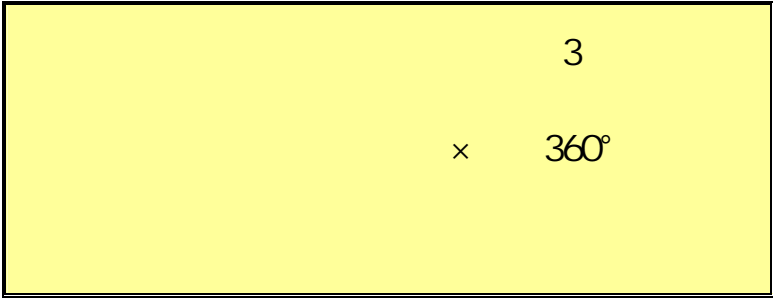




$60^\circ \times 3$ 360° $60^\circ \times 4$ 360° $60^\circ \times 5$ 360°

6

1. 60°
 - 1 3
 $60^\circ \times 3$ 180° 180° 360° **3**
 - 2 4
 $60^\circ \times 4$ 240° 240° 360° **4**
 - 3 5
 $60^\circ \times 5$ 300° 300° 360° **5**
 - 4 6
 $60^\circ \times 6$ 360° 360° 360°
2. 90°
 - 1 3
 $90^\circ \times 3$ 270° 270° 360° **3**
 - 2 4
 $90^\circ \times 4$ 360° 360° 360°



- (一) _____ 11 2 p. 32-36 2005.
(二) _____ 1
p. 61 p. 85 2003.
(三) _____ 1 p. 8 p. 21
2003 .

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