

1. Find out the rules for each table and fill in the empty boxes:

	1	2	3	4
1				
2		4		
3	4			7
4				

	2	4	5	7
1				17
3		34		
6				
8			85	

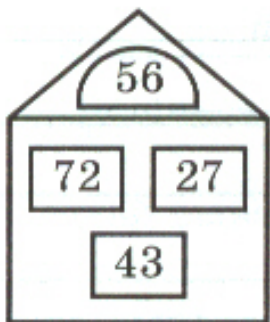
2. Using any grid paper draw rectangles with an A (area) equal to:

a) 24 unit squares; b) 30 and c) 36

How many rectangles you can draw in each case?

a) \_\_\_\_\_ b) \_\_\_\_\_ c) \_\_\_\_\_

3. Try to figure out the pattern and find the missing number:



**4.** The area of a rectangle is  $14 \text{ cm}^2$  and its length is 7 cm.

What is the width this rectangle? \_\_\_\_\_

**5.** Convert the measurements:

**1 m = 10 dm = 100 cm**

**1 m<sup>2</sup> = 100 dm<sup>2</sup> = 10000 cm<sup>2</sup>**

400 cm = \_\_\_\_\_ dm

400 cm<sup>2</sup> = \_\_\_\_\_ dm<sup>2</sup>

400 cm = \_\_\_\_\_ m

700 dm<sup>2</sup> = \_\_\_\_\_ m<sup>2</sup>

2 m = \_\_\_\_\_ cm = \_\_\_\_\_ dm

6 m<sup>2</sup> = \_\_\_\_\_ dm<sup>2</sup>

2 dm<sup>2</sup> = \_\_\_\_\_ cm<sup>2</sup>

50 dm = \_\_\_\_\_ cm = \_\_\_\_\_ m

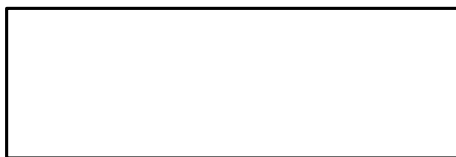
800 dm<sup>2</sup> = \_\_\_\_\_ m<sup>2</sup>

**6.** Measure the rectangles and find their areas (A) in square centimeters and their perimeters (P) in centimeters:



A = \_\_\_\_\_

P = \_\_\_\_\_



A = \_\_\_\_\_

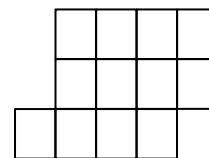
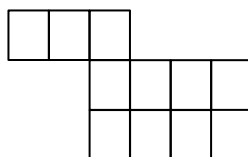
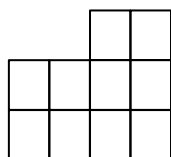
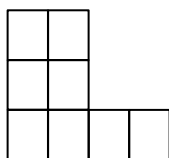
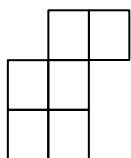
P = \_\_\_\_\_



A = \_\_\_\_\_

P = \_\_\_\_\_

**7.** Split each shape into two identical shapes by drawing along the grid lines. Show the lines clearly by using a colored pencil.



8. Fill the blanks with numbers:

$$12 + (6 \times \dots) = 24$$

$$29 + (6 \times \dots) = 53$$

$$19 + (6 \times \dots) = 54$$

$$45 + (6 \times \dots) = 93$$

9. Solve the problems:

a) Four kids shared 12 pancakes. How many pancakes did each kid eat?

\_\_\_\_\_ Check: \_\_\_\_\_

b) A mom bought 5 cakes and spent \$25. How much did each cake cost?

\_\_\_\_\_ Check: \_\_\_\_\_

c) There are 24 cookies total in 6 boxes. How many cookies are in one box?

\_\_\_\_\_ Check: \_\_\_\_\_

d) A boy walked 18 km in 3 hours. How many kilometers did he walk each hour?

\_\_\_\_\_ Check: \_\_\_\_\_

10.

Write the correct numbers in the squares in order to obtain the correct multiplication problems in rows and columns.

5	6	30
3	8	24
15	48	

		80
		32
40	64	

		27
		32
36	24	

		42
		72
54	56	

		12
		30
18	20	

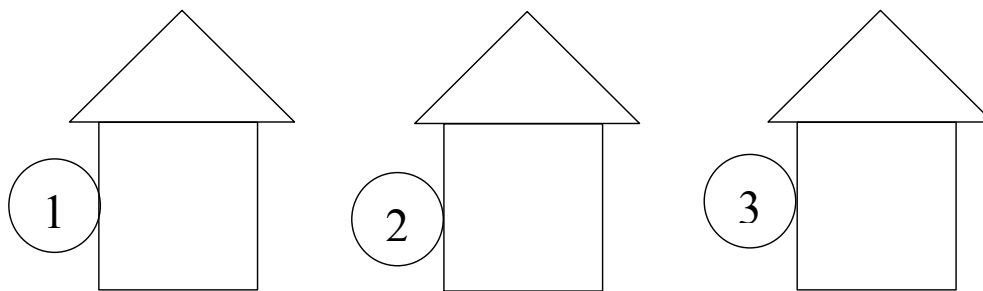
		56
		9
7	72	

		9
		35
21	15	

		24
		36
16	54	

		63
		2
18	7	

11. Once upon a time there lived three kittens: a white kitten, a gray kitten, and a red kitten. Each of the kittens had it's own house:



The gray kitten did not live in the first house and the white kitten lived in the second house. Find the houses where each kitten live. Follow the reasoning to solve the problem and write in the numbers of the houses:



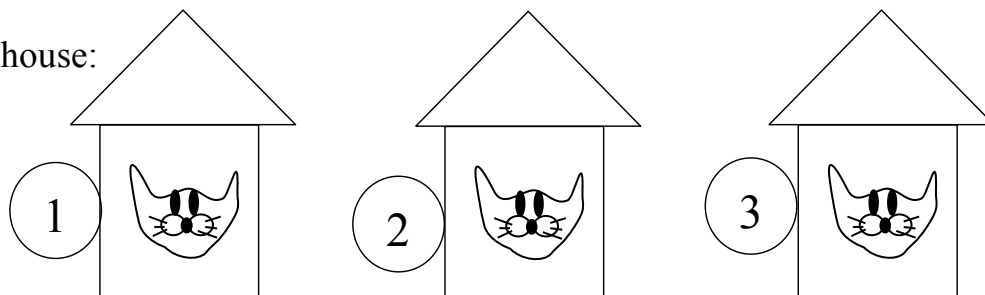
Did not live in the house \_\_\_\_\_, therefore he lived either in the house \_\_\_\_\_ or in the house \_\_\_\_\_.










Lived in the house \_\_\_\_\_. Therefore  lived in the house \_\_\_\_\_

Thus  lived in the house \_\_\_\_\_.

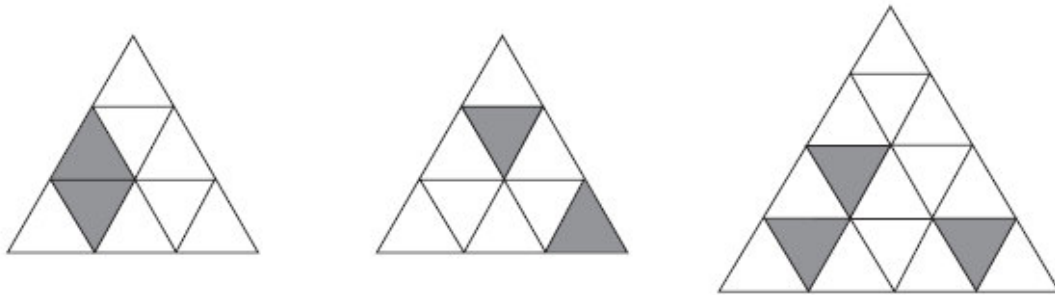
Color each kitten in his house:



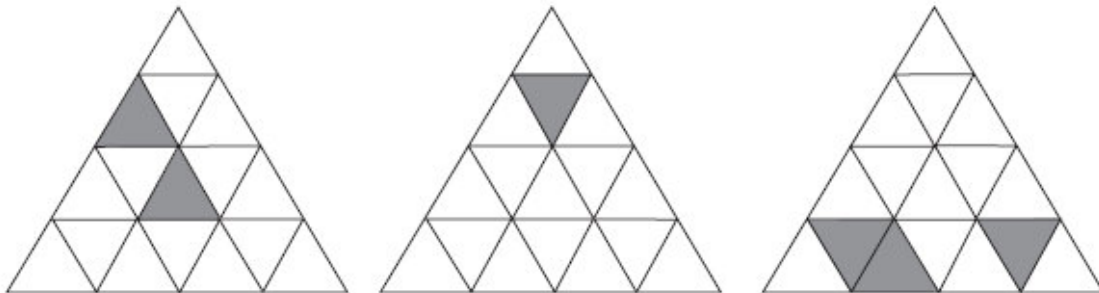
Check the correct statements and X the incorrect statements	
 Did not live in the third house	<input type="checkbox"/>
 Lived neither in the first nor in the second house	<input type="checkbox"/>
 Lived next to 	<input type="checkbox"/>
 Lived either in the first or in the second house	<input type="checkbox"/>
 Did not live next to 	<input type="checkbox"/>

12.

- (a) On each of these grids complete the shading so that the pattern has reflection but **not** rotation symmetry.



- (b) On each of these grids complete the shading so that the pattern has rotation but **not** reflection symmetry.



- (c) On each of these grids complete the shading so that the pattern has reflection **and** rotation symmetry.

