school nova™   Math 2   Homework 21

1

_____

Learn multiplication table by 0, 1, 2, 3, 4, 5 and 10 by heart!

$4 \times 0 =$	$2 \times 5 =$	$1 \times 5 =$
$10 \times 50 =$	$20 \times 3 =$	$4 \times 40 =$
$6 \times 30 =$	$6 \times 20 =$	$30 \times 4 =$
$30 \times 1 =$	$50 \times 10 =$	$20 \times 5 =$
$20 \times 7 =$	$20 \times 9 =$	$2 \times 60 =$
$10 \times 100 =$	$4 \times 50 =$	$30 \times 3 =$
$70 \times 3 =$	$40 \times 2 =$	$50 \times 30 =$

Report the time you spent: _____ minutes

_____

2

Practice Math Kangaroo:

A square was cut into 4 parts as shown in the picture below. Which of the following shapes cannot be made using only these 4 parts?
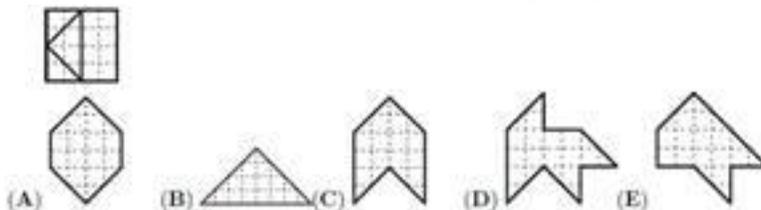
3

 Which of the shapes shown below will fit the above shape exactly to make a rectangle?

4

Cogwheel *A* turns around completely once. At which place is *x* now?
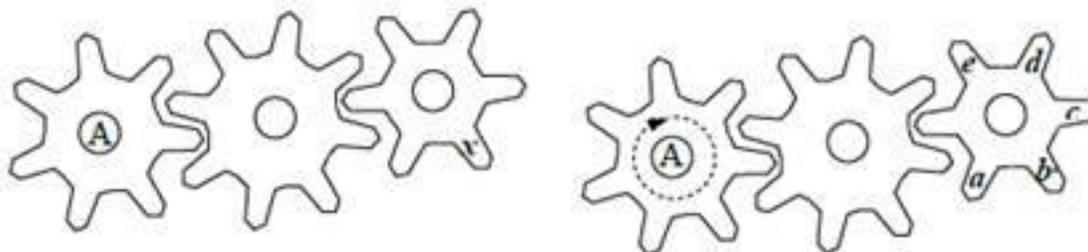
A) *a*   B) *b*   C) *c*   D) *d*   E) *e*

5

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	

6.

Using a grid paper below, draw rectangles with an A (area) equal to:
a) 24 unit squares;   b) 30   c) 36
How many rectangles you can draw in each case?
a) _____   b) _____   c) _____
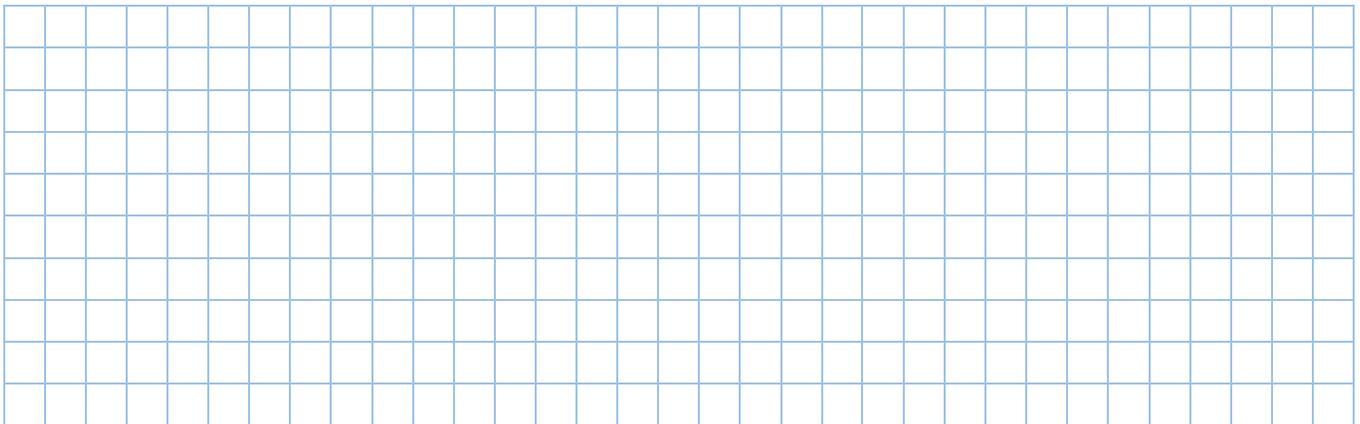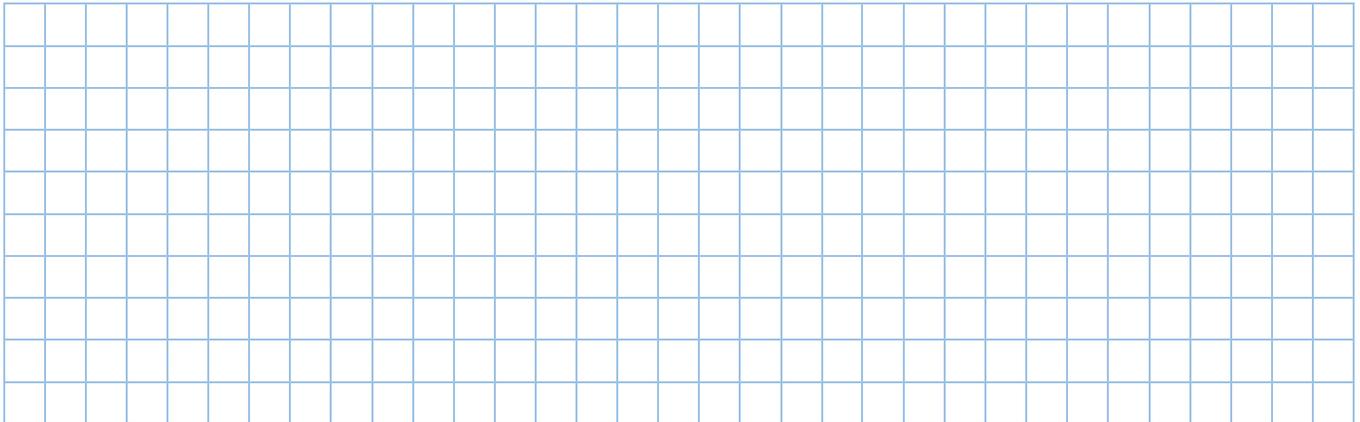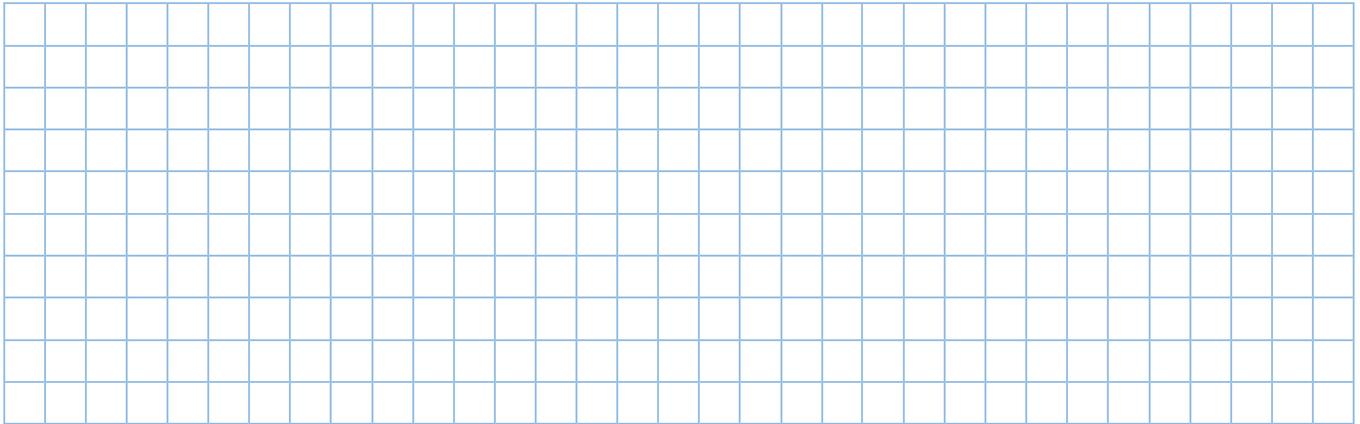
7 The area of a rectangle is 14 cm^2 and its length is 7 cm. What is the width this rectangle? _____

Convert the units:

8 **1 m = 10 dm = 100 cm**   **1 m^2 = 100 dm^2 = 10000 cm^2**

400 cm = _____ dm   400 cm^2 = _____ dm^2 400 cm = _____ m

700 dm^2 = _____ m^2 2 m = _____ cm = ___ dm   6 m^2 = _____ dm^2

2 dm^2 = _____ cm^2 50 dm = _____ cm = ___ m   800 dm^2 = _____ m^2

9 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	

3

10

(a) On each of these grids complete the shading so that the pattern has reflection but **not** rotation symmetry.
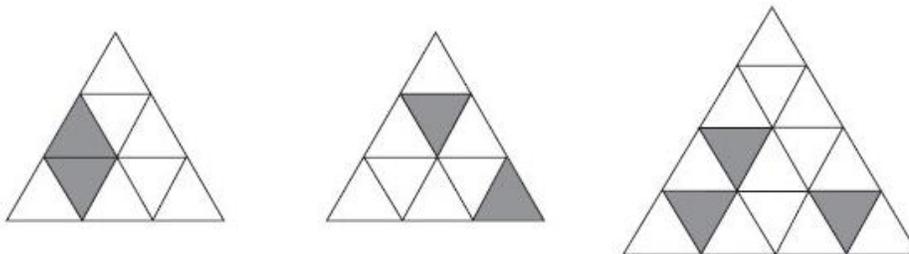
(b) On each of these grids complete the shading so that the pattern has rotation but **not** reflection symmetry.
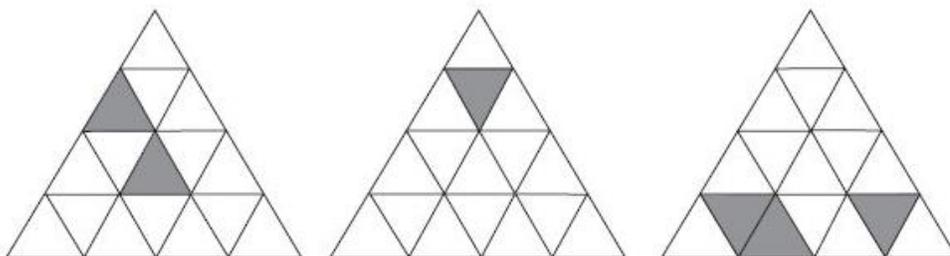
(c) On each of these grids complete the shading so that the pattern has reflection **and** rotation symmetry.
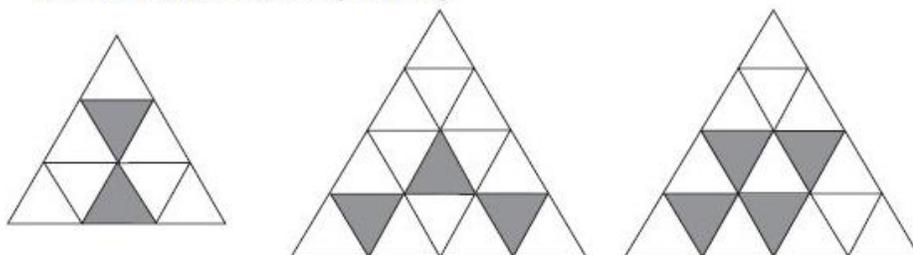
11

What numbers can you make with 1, 2, and 3, using operations of addition, subtraction, and multiplication, as well as parentheses?

For example, here is the way to make 9: $3 \times (2 + 1) = 9$ and 7: $3 \times 2 + 1 = 7$

- Find a way to make 1.
- Find a way to make 3.
- Find a way to make 4.
- Find 3 different ways to make 5

Can you make 10?