



1

Luke repeats the same four stickers on a strip. Which is the tenth sticker put by Luke?



(A)

(B)

(C)

(D)

(E)

2

A dragon has 3 heads. Every time a hero cuts off 1 head, 3 new heads emerge. The hero cuts 1 head off and then he cuts 1 off head again. How many heads does the dragon have now?

(A) 4

(B) 5

(C) 6

(D) 7

(E) 8

3

Winnie the Pooh bought 4 apple pies and Eeyore bought 6 cheesecakes. They paid the same and together they paid \$24. How much does 1 cheesecake cost?

(A) 2

(B) 4

(C) 6

(D) 10

(E) 12

Report the time you spent: _____ minutes



4

Open up parenthesis:

$$(56 + s) + (d + 15) =$$

$$k - (b + m) =$$

$$(n + 4) - (a + b + c) =$$

$$(d + f) - (s - w) =$$

$$a - (45 - b) =$$

$$(170 - e) - (80 - a) =$$

5

There are N pencils in the red box and M pencils in the white box. Masha took a pencils from the red box. Monty took b pencils from the white box. Explain the meaning of the following expressions.

a) $N + M$ _____

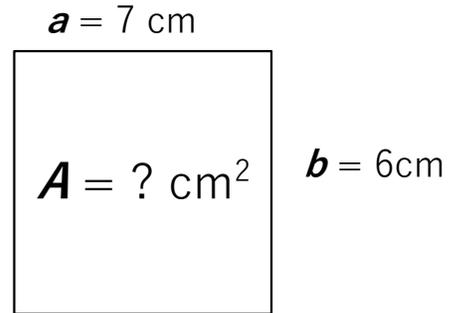
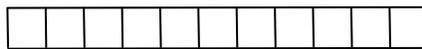
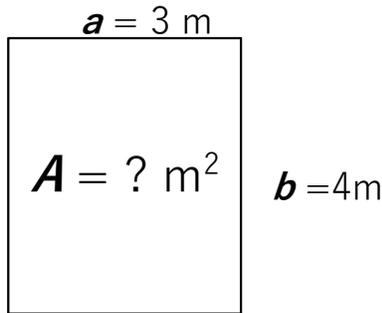
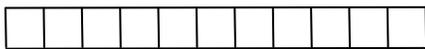
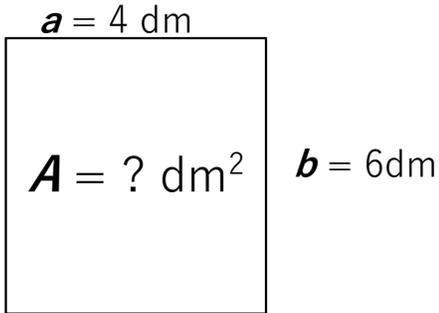
c) $M - b$ _____

b) $N - a$ _____

d) $a + b$ _____

6

Find the area of the rectangles. Write your answer below, don't forget the units of measure!



7

Calculate:

$20 \times 30 =$
 $50 \times 5 =$

$15 \times 100 - 15 \times 10 =$
 $25 \times 20 - 25 \times 10 =$

$200 \times 2 - 200 \times 0 =$
 $40 \times 5 + 40 \times 10 =$

8

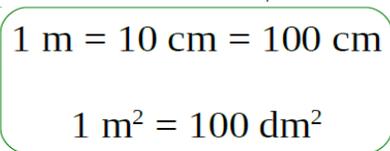
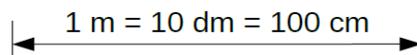
What is the area of the shaded part?

Use the given scale (the area of one small square is 1 dm^2 or 100 cm^2).

$A =$ _____

Color the rectangle with the area 10 dm^2 on the grid.

Complete the equalities on the left.



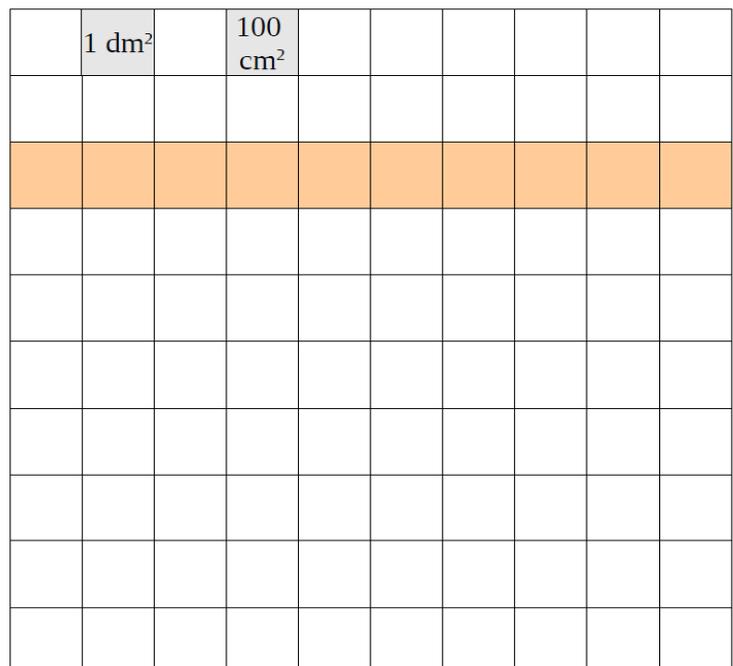
$2 \text{ m}^2 =$ _____ dm^2

$300 \text{ dm}^2 =$ _____ m^2

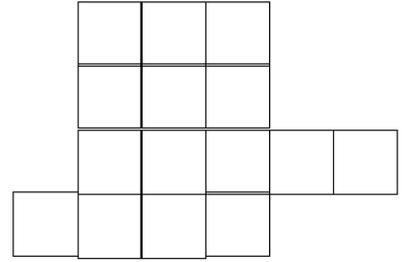
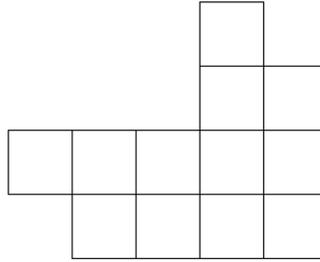
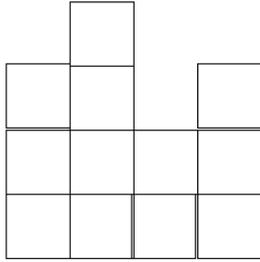
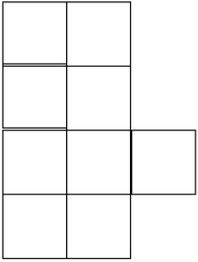
$500 \text{ dm}^2 =$ _____ m^2

$7 \text{ m}^2 =$ _____ cm^2

$900 \text{ dm}^2 =$ _____ m^2



9 Split the shapes below into 3 identical shapes. Color each part by a different color.



10 Fill in missing numbers:

$_ \times 8 = 64$	$_ \times 7 = 49$	$_ \times 6 = 54$	$_ \times 8 = 16$	$_ \times 2 = 20$
$_ \times 7 = 63$	$_ \times 5 = 45$	$_ \times 8 = 40$	$_ \times 4 = 36$	$_ \times 8 = 24$
$4 \times _ = 16$	$6 \times _ = 36$	$10 \times _ = 60$	$9 \times _ = 18$	$3 \times _ = 27$

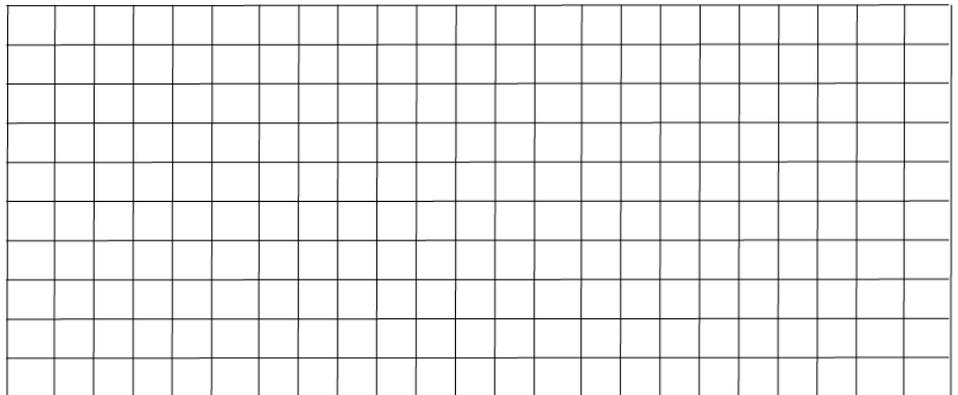
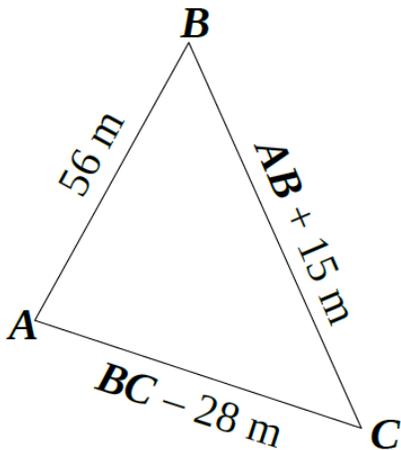
11 a) Find the perimeter and area of the rectangle with the sides 6 cm and 8 cm. Specify the correct units.
 P = _____ A = _____

b) Find the perimeter and area of the rectangle with the sides 4 cm and 7 cm.
 P = _____ A = _____

c) One side of the rectangle is 6 cm. Its area is 54 cm^2 . What is the other side of the rectangle?

d) One side of a rectangle is 6 cm. Its area is 42 cm^2 . What is the other side of the rectangle?

12 One side of a triangle is 56 m, the second side is 15 m longer than the first. The third side of the triangle is 28 m shorter than the second. What is the perimeter of the triangle?



13

- a) Use a ruler to draw a line segment; name it AB . Mark points C and D on AB .
 Use a ruler to draw a line segment, name it AB . Put the points C and D on the segment AB .

How many line segments do you see in the drawing? _____

Name them: _____

- b) Use a ruler to draw a ray, name it AB . Put the points C and D on the ray AB .

How many rays and line segments do you see in the drawing? _____

Name them: _____

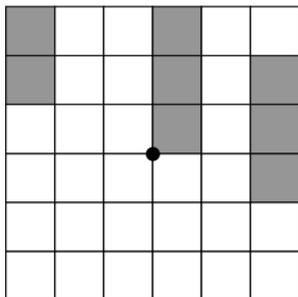
- c) Use a ruler to draw a straight line, name it AB . Put points C and D on the line AB .

How many rays and line segments do you see in the drawing? _____

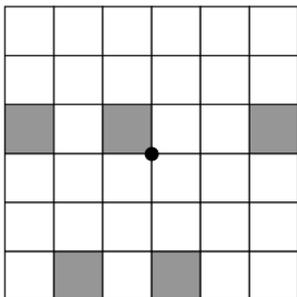
Name them: _____

14

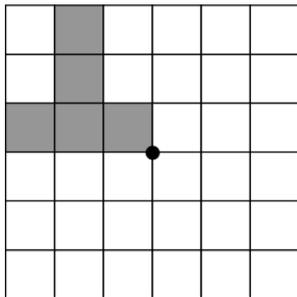
Finish the drawing according to the order of rotation symmetry. Rotation is around the point in the center.



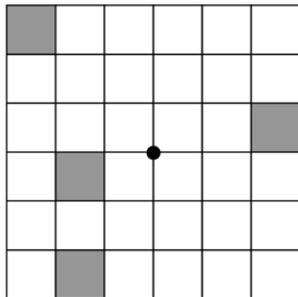
order 2



order 2



order 4

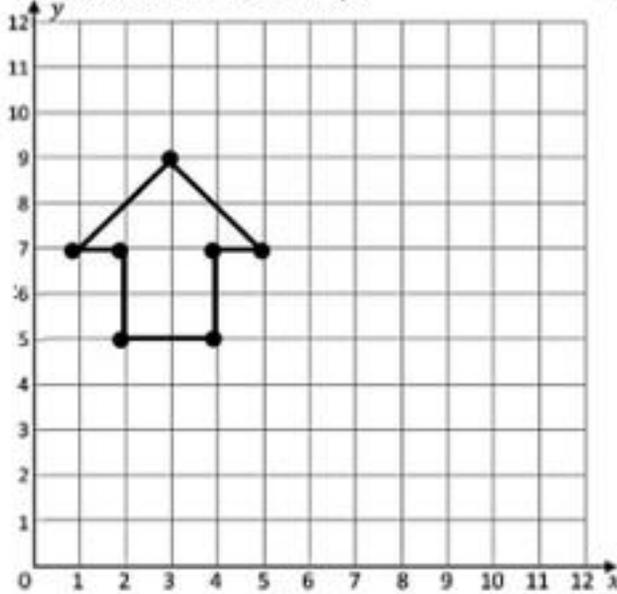


order 4

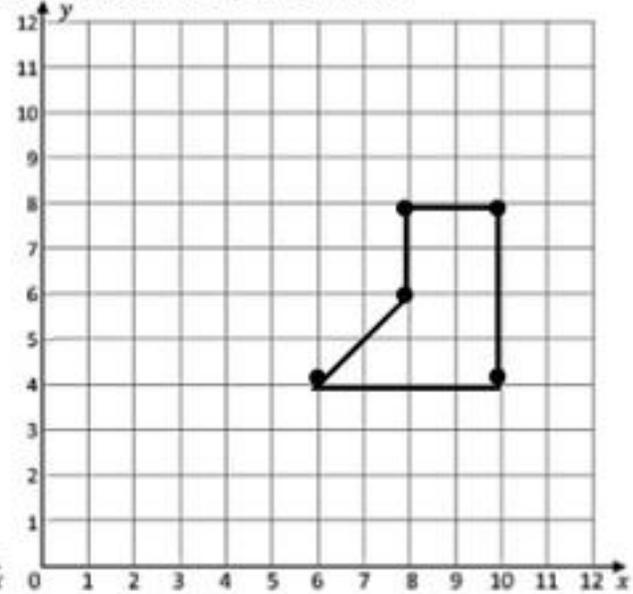
15

Translate the following figures.

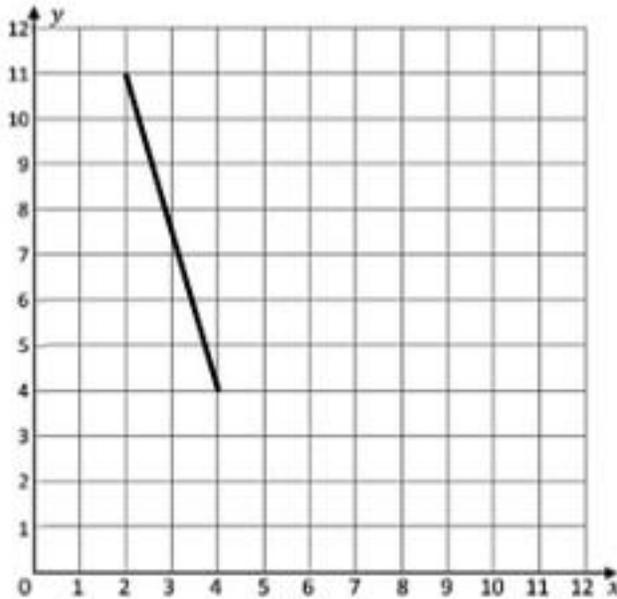
a. Translation: 2 unit up 6 unit right



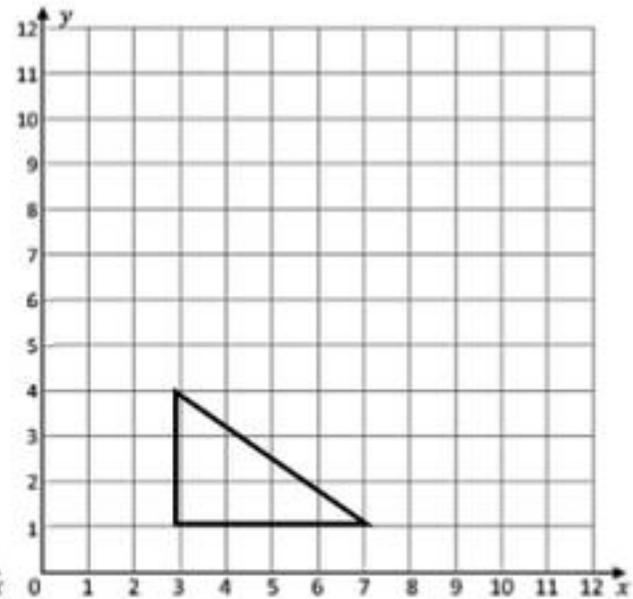
b. Translation: 3 units up and 5 units left



a. Translation: 6 unit right and 2 units down



b. Translation: 7 units up



16

Can you move just two of these matchsticks to form four triangles?

