

## Area.

1 Solve the equations.

$$152 + x = 275$$

$$x =$$

$$y - 518 = 33$$

$$y =$$

$$z - 204 = 155$$

$$z =$$

2 Open up the parentheses:

$$s + (45 + a) =$$

$$f - (g + 64) =$$

$$(a + b + d) + 6 =$$

$$20 - (w + v) =$$

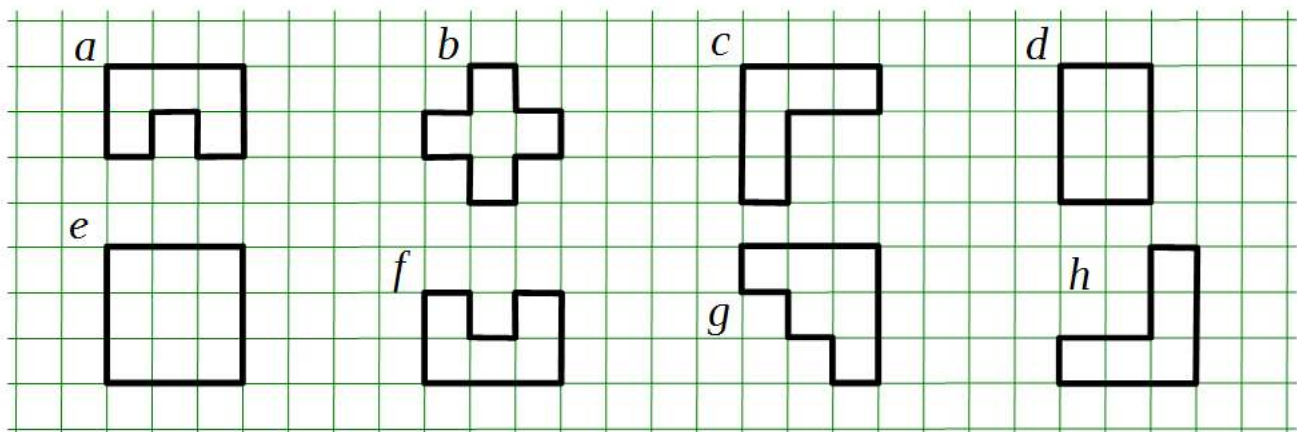
$$8 + (78 - a) =$$

$$(33 - z) - (c - 6) =$$

$$(3 + d) + (b - 15) =$$

$$(d - 3) - (a + g) =$$

3 How many cells are in each shape on the drawing? Find the equal shapes. Find the shapes with equal numbers of cells.



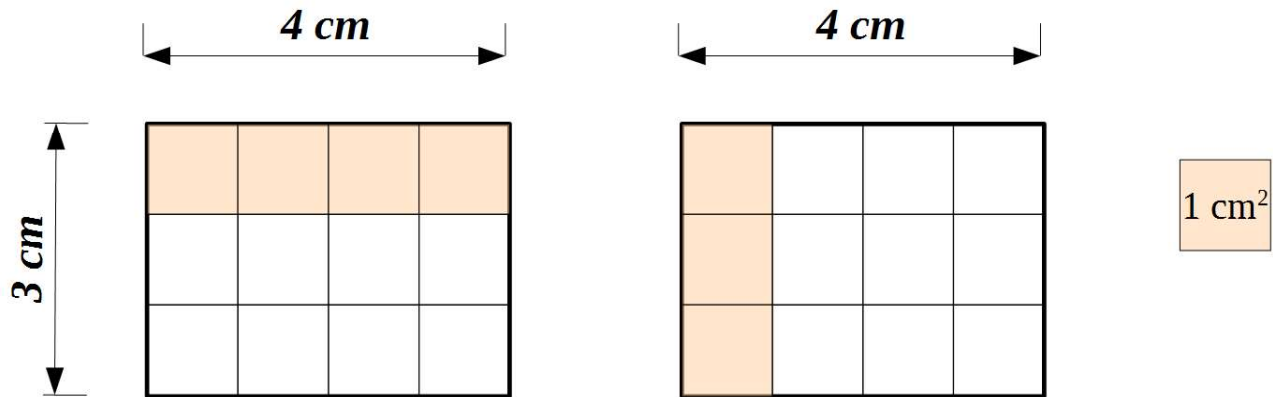
The equal shapes are \_\_\_\_\_

## Area of rectangle.

**Area** is 2-dimensional: it has a length and a width. **Area** is measured in square units such as square inches, square feet or square meters.

A rectangle is 4 cm long and 3 cm wide. Find the area of the rectangle in square centimeters.

Look at the two ways to solve the problem

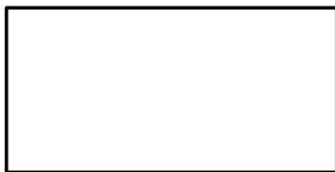


**Method I:**  $S = 4 \text{ cm} \times 3 = \underline{\hspace{2cm}} \text{ cm}^2$  **Method II:**  $S = 3 \text{ cm} \times 4 = \underline{\hspace{2cm}} \text{ cm}^2$

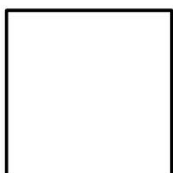
To find the **area** of a **rectangle**, multiply the length by the width.

$$S = a \times b = b \times a$$

**4** Measure the sides of the rectangles in centimeters and calculate their areas:



<b>a</b> =		cm	<b>b</b> =		cm														
<b>S</b> =		cm <sup>2</sup>																	



<b>a</b> =		cm	<b>b</b> =		cm														
<b>S</b> =		cm <sup>2</sup>																	

5

Draw the rectangle and solve the word problems:

A. Little Joe plotted a rectangle. One side of it was 2 cm, another was 4 cm. What was the area of the rectangle?

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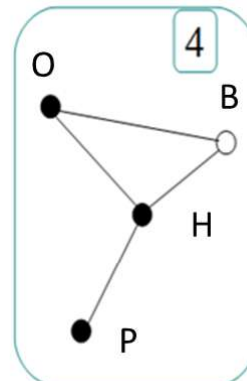
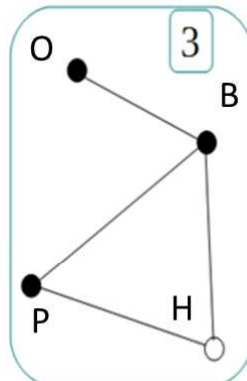
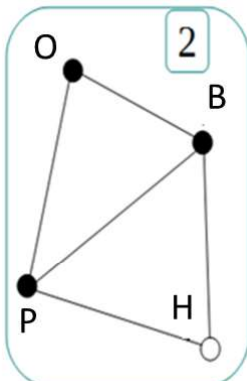
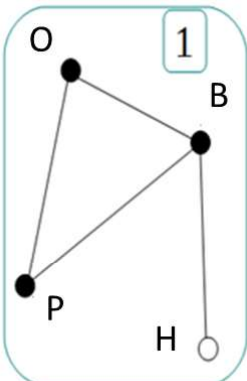
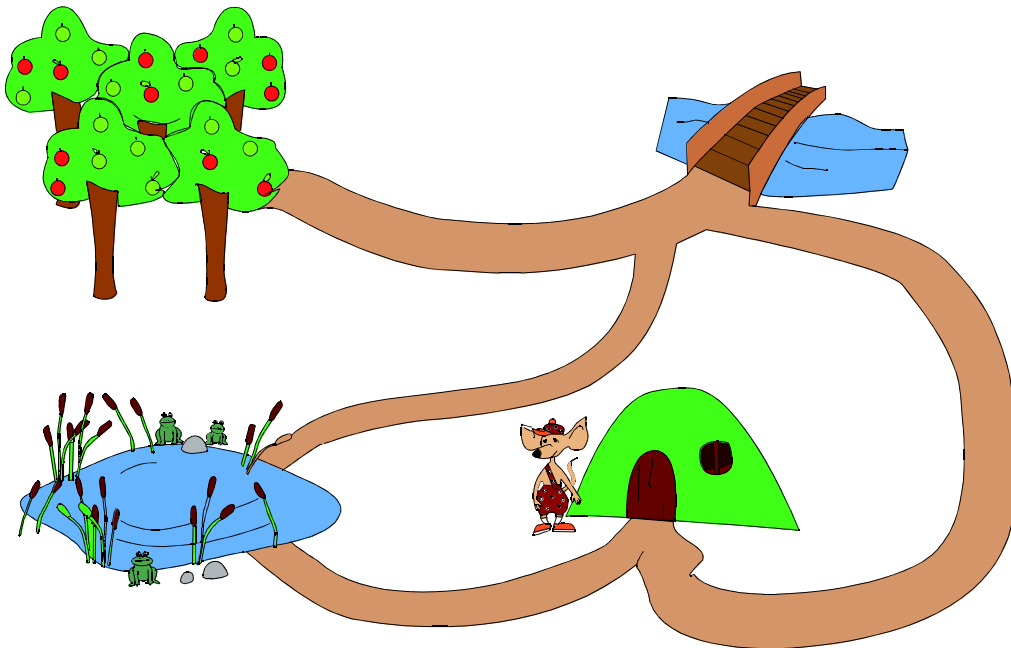
B. Jake the mouse plotted a 4 cm by 7 cm rectangle. What was the area of the rectangle?

\_\_\_\_\_

C. Foxy Tail plotted a rectangle. One of its sides was 3 cm. The area of the rectangle was 6 cm<sup>2</sup>. What was the other side of the rectangle?

\_\_\_\_\_

6 Which graph matches the map (O: an orchid, B: a bridge, P: a pond, H: a house)?



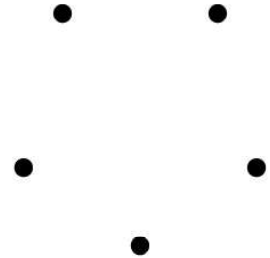
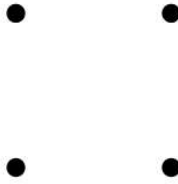
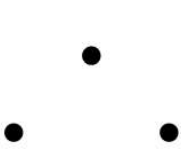
7

A group of people shook each other's hands. How many handshakes were exchanged if the group had ...

A. ... three people

B. ... four people

C. ... five people



8

Find coordinates of points **A**, **B**, and **C**.

**A**

**B**

**C**

Plot points

**D** (3, 2)

**E** (11, 5)

**F** (4, 12)

**G** (7, 5)

