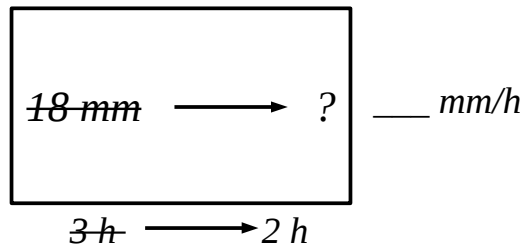


Homework for Lesson № 19

1 Solve the word problems.

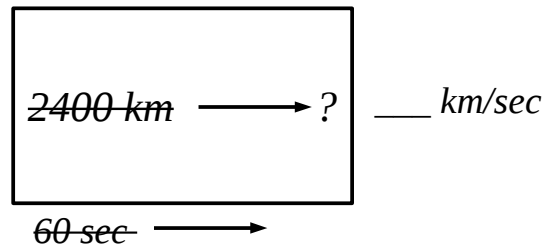
A long rain causes 18 mm precipitation every 3 hours. How much precipitation occurs in 2 hours?



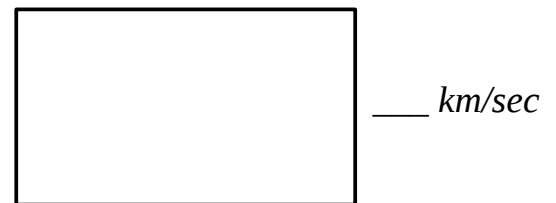
In one minute Earth moves about the Sun 2400 km. How far does it move in 7 minutes?



In one minute Earth moves about the Sun 2400 km. How far does it move in 7 seconds?



In one minute Earth moves about the Sun 2400 km. How long does it take to move 360 km?



2 Calculate **in your notebook** and copy your answers here:

$2568 \div 3 = \underline{\hspace{2cm}}$

$5715 \div 9 = \underline{\hspace{2cm}}$

$31 \times 52 = \underline{\hspace{2cm}}$

$(48 \div 12 + 16) - 45 \div 3 = \underline{\hspace{2cm}}$

$52 + 23 \times 4 \div 2 + 2 = \underline{\hspace{2cm}}$

$54 - 4x = 18$

$(3x - 3) + 8 = 38$

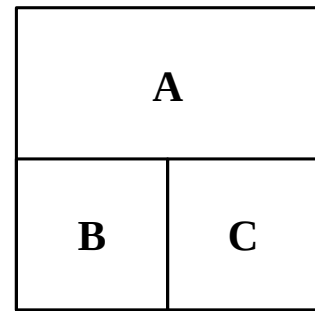
$* 2x + 2 = 3$

$x = \underline{\hspace{2cm}}$

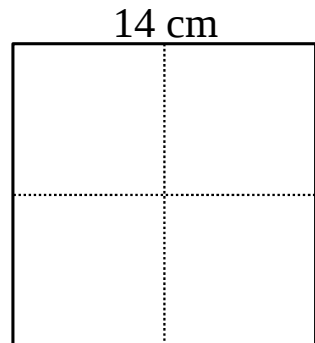
$x = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$

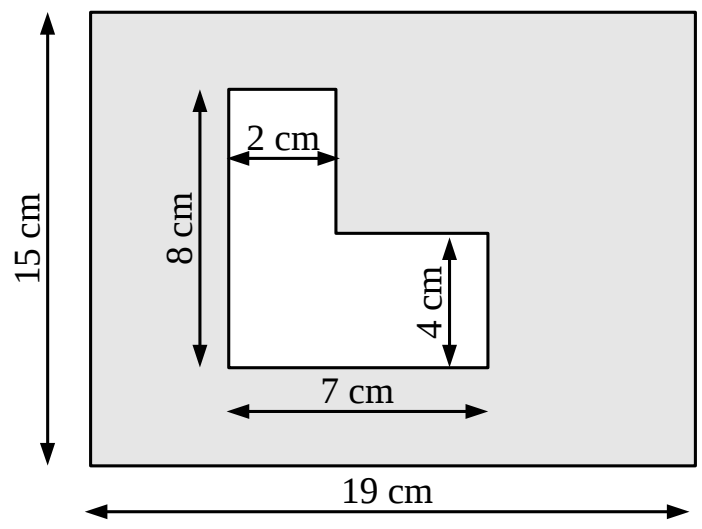
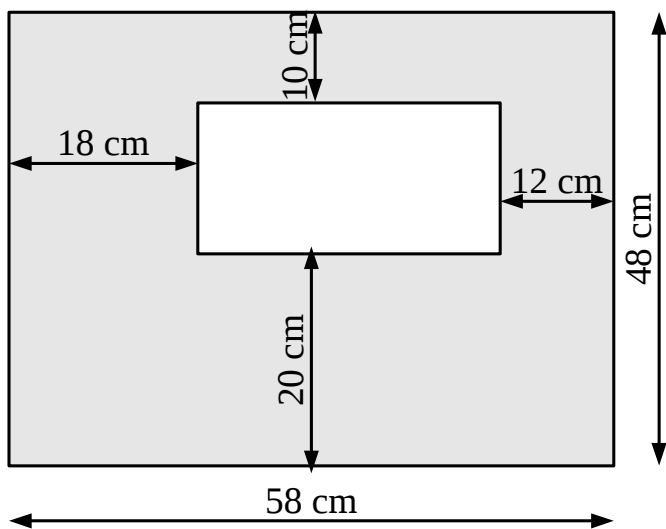
- 3** There are three squares on the drawing.
The perimeter of each small square is 16 cm. What is the area of the large square?



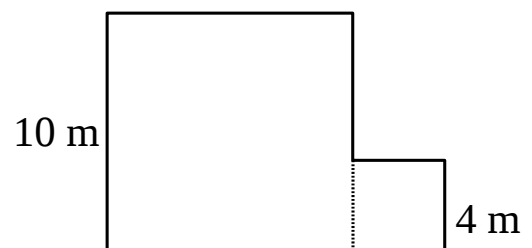
- 4** An origami paper is folded to form 4 smaller squares. What is the area of each smaller squares?



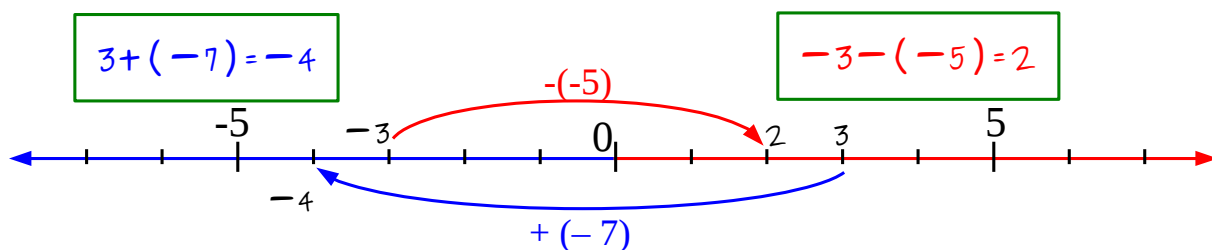
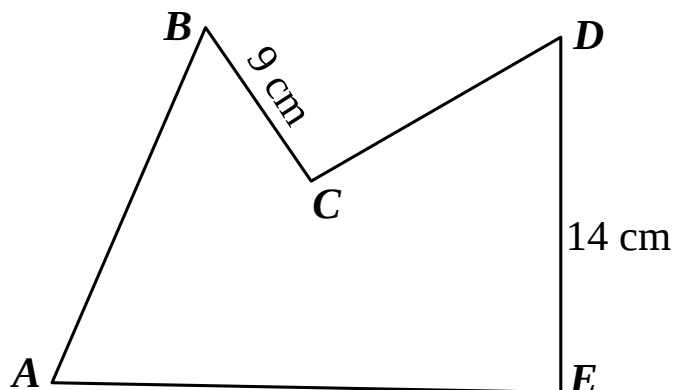
- 5** Find the gray areas:



- 6** The floor of a studio has a shape of two squares placed together without an overlap. What is the area of the studio?



7 Polygonal chain $ABCDE$ has a perimeter of 59 cm. The segments AB and DE are the same. The segment CD is 3 cm longer than segment BC . How long is the segment AE ?



Adding a negative number makes the result smaller (shift to the left).
Subtracting a negative number makes the result less negative, *i.e.* bigger.

8 Calculate:

$4 + 1 =$

$4 + (-1) =$

$4 - 1 =$

$4 - (-1) =$

$2 + 3 =$

$2 + (-3) =$

$2 - 3 =$

$2 - (-3) =$

$(-3) + 1 =$

$(-3) + (-1) =$

$(-3) - 1 =$

$(-3) - (-1) =$

9 Fill in the numbers missing from the patterns:

7, 9, __, __, 15, 17, ...

__, __, 11, 19, 27, 35, ...

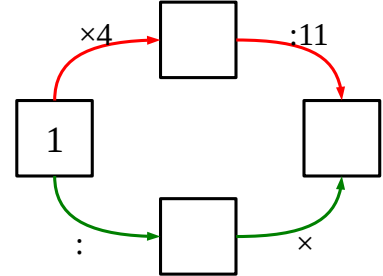
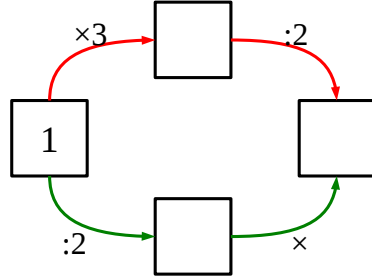
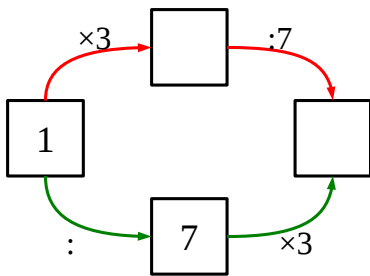
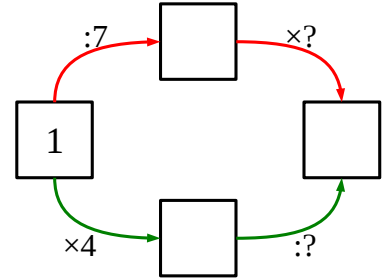
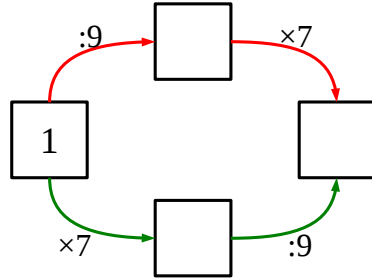
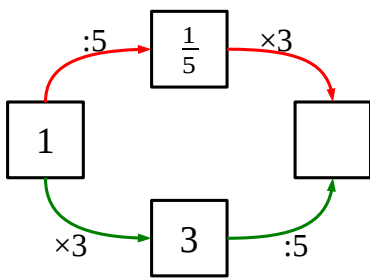
__, __, 10, 13, 16, 19, ...

-2, 1, 4, 7, __, __, ...

__, __, 21, 30, 39, 48, ...

-7, -4, -1, 2, __, __, ...

10 Complete the drawings :



11 Calculate:

$1 : 2 =$

$1 : 9 =$

$1 : 8 =$

$1 : q =$

$1 : \frac{1}{2} =$

$1 : \frac{1}{9} =$

$1 : \frac{1}{8} =$

$1 : \frac{1}{q} =$

$\frac{1}{2} \times 2 =$

$\frac{1}{9} \times 9 =$

$\frac{1}{8} \times 8 =$

$\frac{1}{q} \times q =$

$2 \times \frac{1}{2} =$

$9 \times \frac{1}{9} =$

$8 \times \frac{1}{8} =$

$q \times \frac{1}{q} =$

12 Solve the following word problems:

A. One fifth of 60 boxes got damaged. How many boxes remained intact?

1). _____ (number of damaged boxes)

2). _____ (number of intact boxes)

B. One the first day of a trip school students finished one quarter of 32 juice cans. How many cans remained after the first day of the trip?

1). _____ (number of finished juice cans)

2). _____ (number of remaining cans)

13

For any m the following is TRUE

$$\frac{1}{m} \times m = 1$$

$$m \times \frac{1}{m} = 1$$

$$1 : m = \frac{1}{m}$$

$$1 : \frac{1}{m} = m$$

$$a = m$$

$$S = a \times b = 1$$

$$b = \frac{1}{m}$$

These four equalities can be illustrated using a rectangle diagram

For each rectangle write all four equalities that the rectangle illustrates.

$$a = 3$$

$$S = a \times b = 1$$

$$b = \frac{1}{3}$$

$$a = 4$$

$$S = a \times b = 1$$

$$b = \frac{1}{4}$$

14

Solve the equations:

| | | | | |
|--|----------------|---------------|-------|--|
| | | | | |
| | $x :$ | $\frac{1}{3}$ | $= 1$ | |
| | $x = 1 \times$ | | | |
| | $x =$ | | | |
| | | | | |

| | |
|-----|---------------|
| | 1 |
| x | $\frac{1}{3}$ |

| | | | | |
|--|------------|---------------|-------|--|
| | | | | |
| | $x \times$ | $\frac{1}{4}$ | $= 1$ | |
| | $x = 1 :$ | | | |
| | $x =$ | | | |
| | | | | |

| | |
|--|--|
| | |
|--|--|

| | | | | |
|--|------------|---------------|-------|--|
| | | | | |
| | $x \times$ | $\frac{1}{8}$ | $= 1$ | |
| | $x =$ | | | |
| | $x =$ | | | |
| | | | | |

| | |
|--|--|
| | |
|--|--|