

Homework for Lesson № 18

1 Solve the word problems.

Little Joe and Foxy Tail need to dig a tunnel connecting their nests, that are 36 m away from each other. FT can dig 9 m a day, while LJ is younger and can dig only 3 m a day.

A. How long will it take **FT** to dig the tunnel alone?

B. How long will it take **LJ** to dig the tunnel alone?

C. How many meters can they dig together if each one digs from his own nest?

D. How long will it take the brothers to finish the tunnel if they dig towards each other?

2 Solve in your notebook and copy your answer here:

a). $4285 \div 5 =$ $2874 \div 3 =$ $5346 \div 9 =$

b). $85 \times 9 =$ $29 \times 25 =$ $17 \times 71 =$

c). $(7 + 24 \div 3) + 11 \times 4 =$ $47 - 25 + (18 \div 2 \times 6) \times 2 =$

d). $5x + 8 = 53$ $4x - 3 = 77$ $(2x - 6) + 10 = 50$

$x =$ _____

$x =$ _____

$x =$ _____

3 Use distributive properties of multiplication and division to remove parenthesis:

$$(a + b) \times c = a \times c + b \times c$$

$$(a + b) : c = a : c + b : c$$

$$(9 + 3) \cdot 4 = 36 + \underline{\hspace{2cm}}$$

$$(36 + 9) : 3 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

$$(x + 7) \times 4 = \underline{\hspace{4cm}}$$

$$(2y + 4) \times 2 = \underline{\hspace{4cm}}$$

$$(2w + 4) : 2 = \underline{\hspace{4cm}}$$

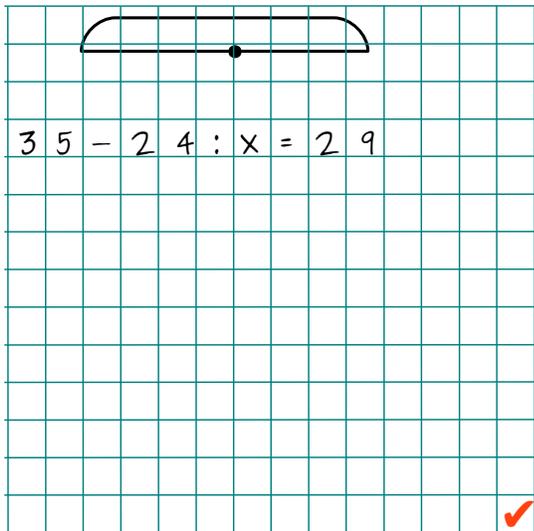
$$(2q - 4) : 2 = \underline{\hspace{4cm}}$$

$$(10x + 5) : 5 = \underline{\hspace{4cm}}$$

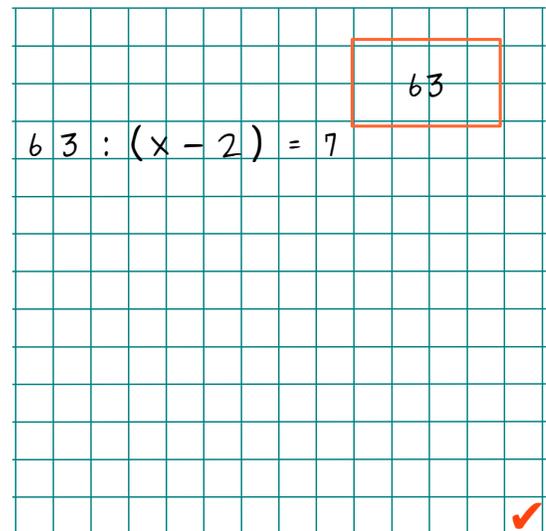
$$(10x - 5) : 5 = \underline{\hspace{4cm}}$$

4

Solve the equations:



35 - 24 : x = 29



63 : (x - 2) = 7

5

Calculate:

$$1 \times 5 : 7 =$$

$$1 \times 5 : 12 =$$

$$1 \times 2 : 5 =$$

$$1 \times 4 : 3 =$$

$$1 : 7 \times 5 =$$

$$1 : 12 \times 5 =$$

$$1 : 5 \times 2 =$$

$$1 : 3 \times 4 =$$

$$1 \times 7 : 9 =$$

$$1 \times 11 : 7 =$$

$$1 \times 4 : 13 =$$

$$1 \times 13 : 4 =$$

$$1 : 9 \times 7 =$$

$$1 : 7 \times 11 =$$

$$1 : 13 \times 4 =$$

$$1 : 4 \times 13 =$$

6 Fill in the blanks:

$$1 : 9 \times 7 = 1 \times \square : \square = \underline{\hspace{2cm}}$$

$$1 : 11 \times 4 = 1 \times \square : \square = \underline{\hspace{2cm}}$$

$$1 : 7 \times 6 = 1 \times \square : \square = \underline{\hspace{2cm}}$$

$$1 : 13 \times 4 = 1 \times \square : \square = \underline{\hspace{2cm}}$$

$$1 : 5 \times 2 = 1 \times \square : \square = \underline{\hspace{2cm}}$$

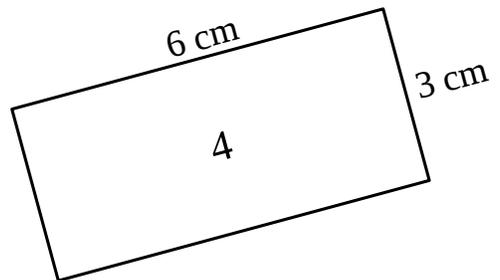
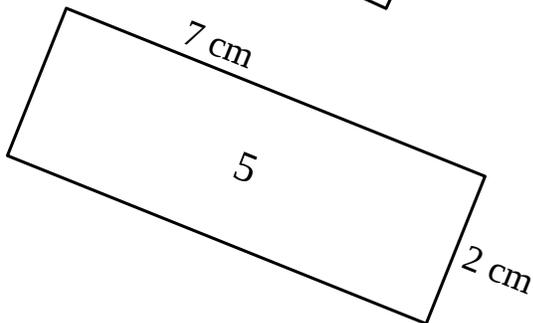
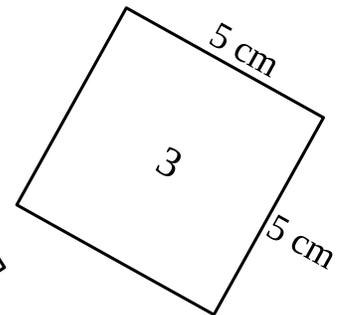
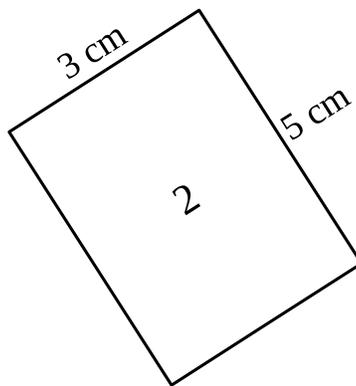
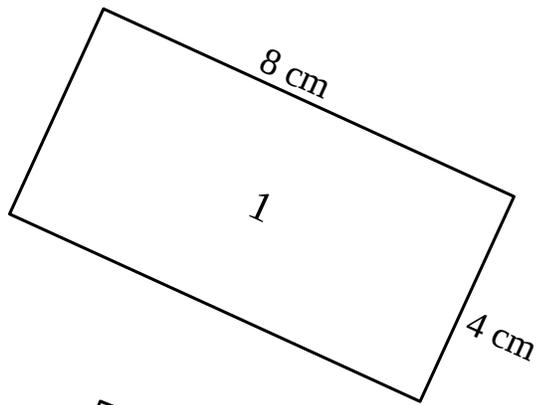
$$1 : 12 \times 7 = 1 \times \square : \square = \underline{\hspace{2cm}}$$

$$1 : 12 \times 5 = 1 \times \square : \square = \underline{\hspace{2cm}}$$

$$1 : 7 \times 3 = 1 \times \square : \square = \underline{\hspace{2cm}}$$

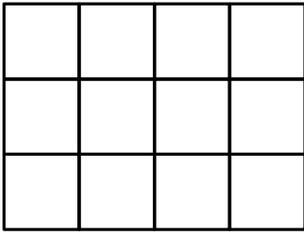
7 Fill in the table:

| Rectangle | 1 | 2 | 3 | 4 | 5 |
|-----------|---|---|---|---|---|
| Perimeter | | | | | |
| Area | | | | | |

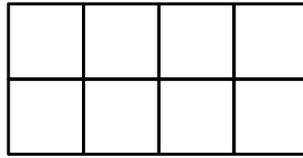


8

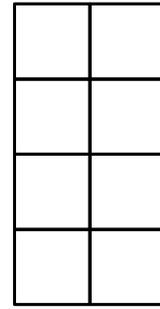
Find the area of each shape:



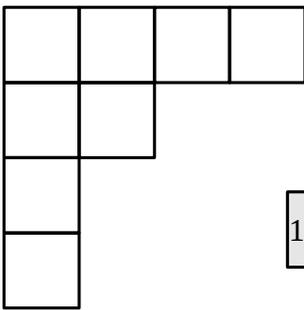
Area: _____



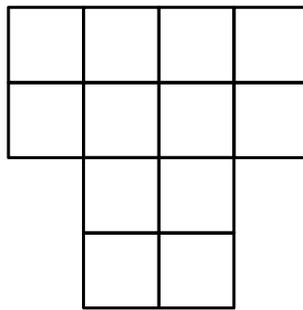
Area: _____



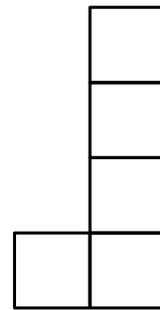
Area: _____



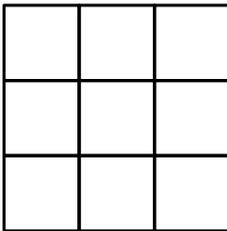
Area: _____



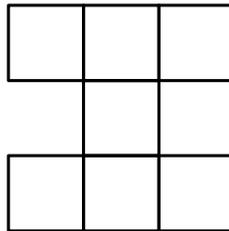
Area: _____



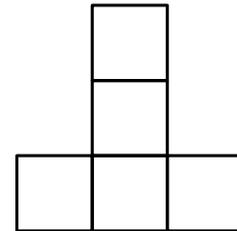
Area: _____

1 cm²

Area: _____



Area: _____



Area: _____

9

Compare:

50 cm 1 dm

130 cm 15 dm

10 cm 1 dm

50 cm² 1 dm²

300 cm² 3 dm²

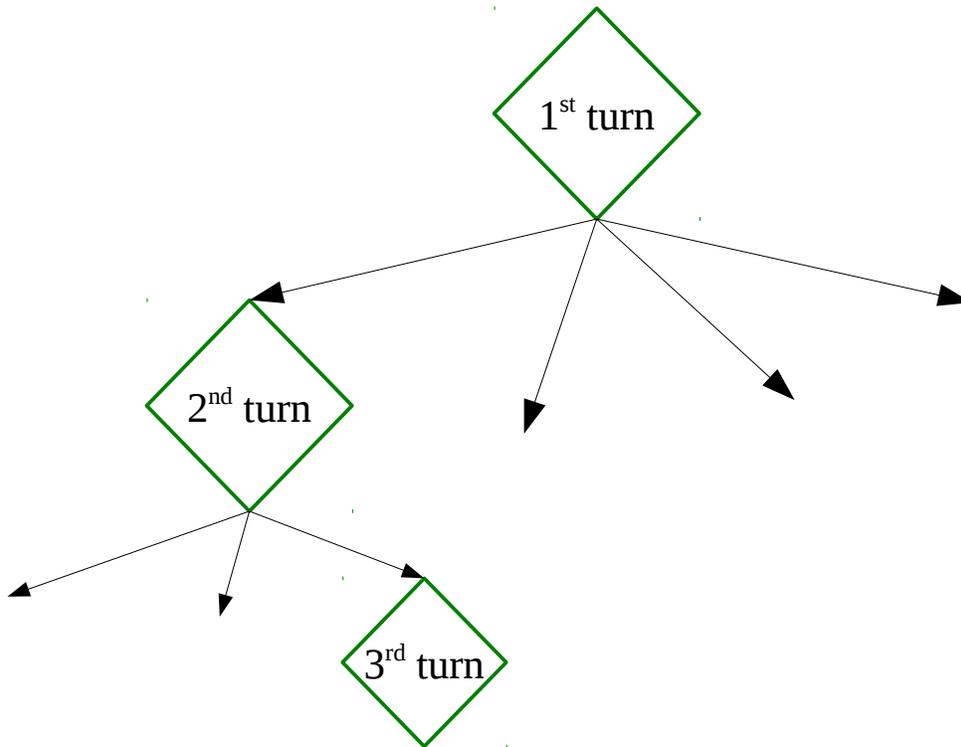
10 cm² 1 dm²

$\frac{1}{3}$ $\frac{1}{5}$

$\frac{1}{9}$ $\frac{1}{4}$

$\frac{1}{n}$ $\frac{1}{n+5}$

- 10** Little Joe, Foxy Tail, Pop Eye, and Jake the Mouse need to take turns digging their home. Each one digs only once a day. Complete and use the tree of options to find out how many ways to take turns do the four brothers have.



N = _____

- 11** Find the two identical tricolor stripes.

