Homework for Lesson № 18

1 Solve the word problems.

Little Joe and Foxy Tail need to dig a tunnel connecting their nests, that are 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 you 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:

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

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

$(9 + 3) \cdot 4 = 36 +$ _____

$(36 + 9) : 3 =$ _____ $+$ _____

$(x + 7) \times 4 =$ _____

$(2y + 4) \times 2 =$ _____
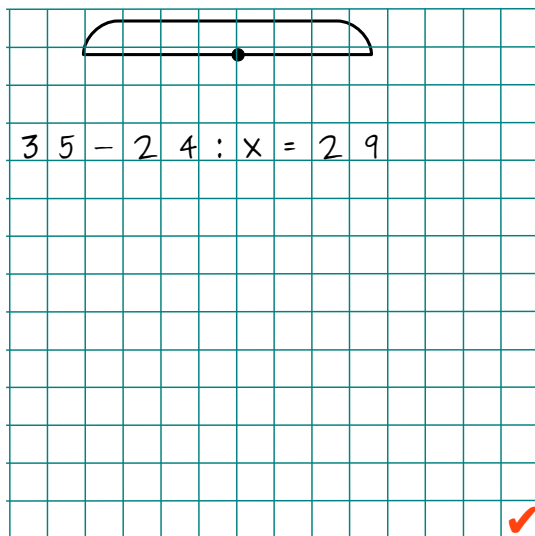
$(2w + 4) : 2 =$ _____

$(2q - 4) : 2 =$ _____
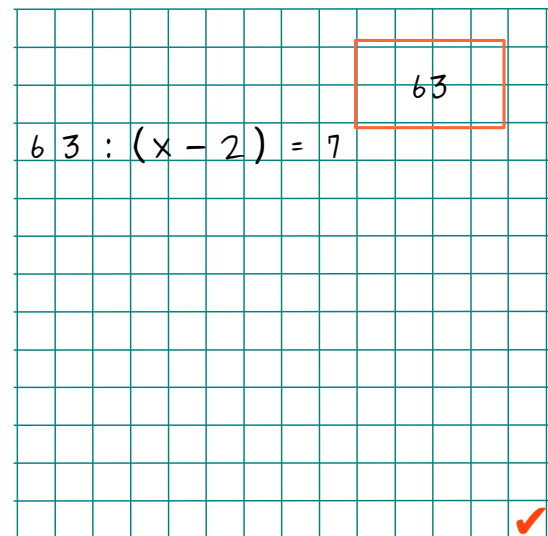
$(10x + 5) : 5 =$ _____

$(10x - 5) : 5 =$ _____

4 Solve the equations:

$$35 - 24 : x = 29$$

✔

$$63 : (x - 2) = 7$$

63

✔

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 = $ _____
$1 : 11 \times 4 = 1 \times \square : \square = $ _____

$1 : 7 \times 6 = 1 \times \square : \square = $ _____
$1 : 13 \times 4 = 1 \times \square : \square = $ _____

$1 : 5 \times 2 = 1 \times \square : \square = $ _____
$1 : 12 \times 7 = 1 \times \square : \square = $ _____

$1 : 12 \times 5 = 1 \times \square : \square = $_____
$1 : 7 \times 3 = 1 \times \square : \square = $ _____

7 Fill in the table:

Rectangle	1	2	3	4	5
Perimeter					
Area					

8 cm

1

4 cm

3 cm

5 cm

2

5 cm

3

5 cm

7 cm

5

2 cm

6 cm

3 cm

4
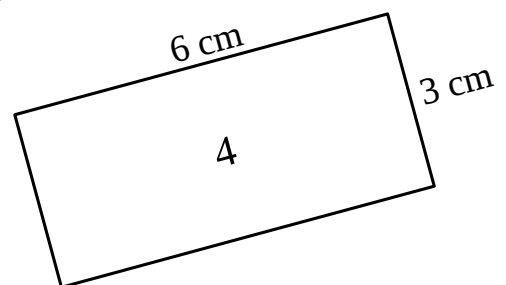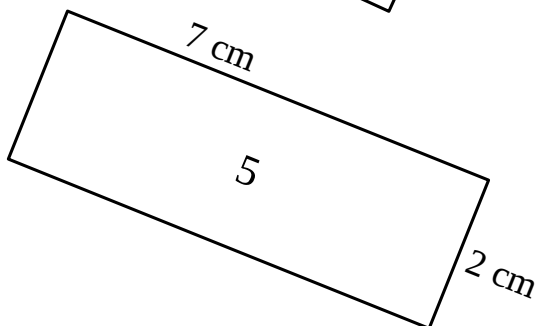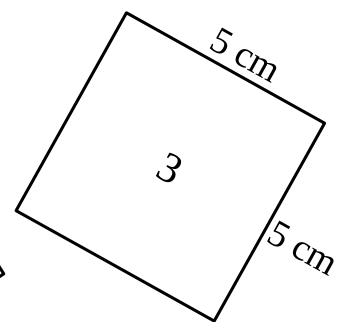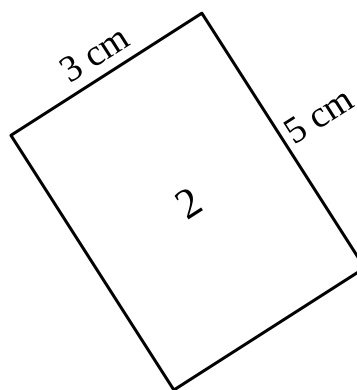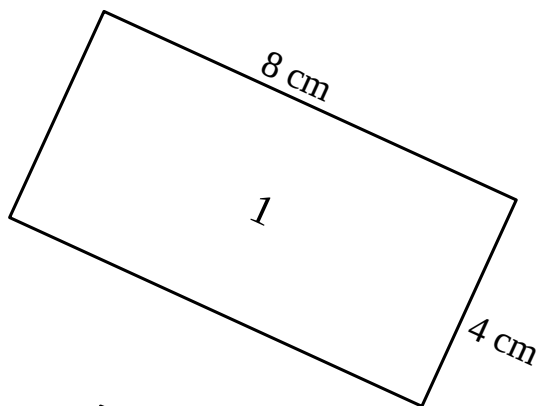
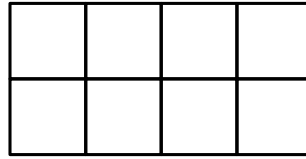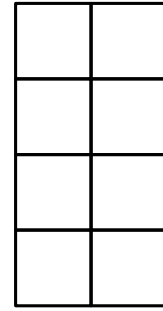**8** Find the area of each shape:
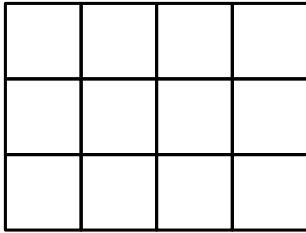
Area:_____

Area:_____

Area:_____

1 cm²

Area:_____

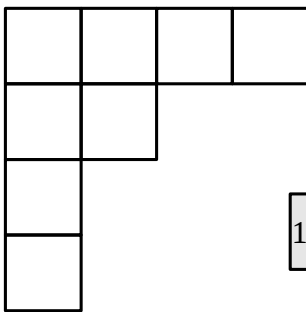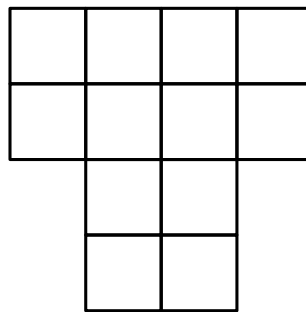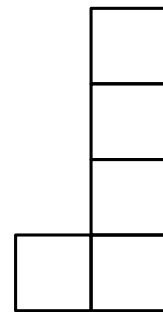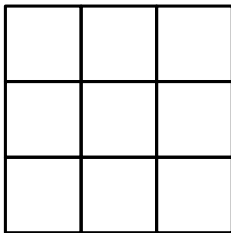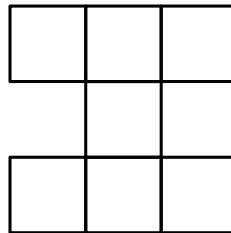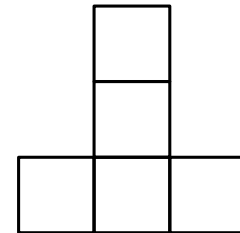Area:_____

Area:_____

Area:_____

Area:_____

Area:_____

9 Compare:

50 cm ☐ 1dm

130 cm ☐ 15 dm

10 cm ☐ 1 dm

50 cm² ☐ 1 dm²
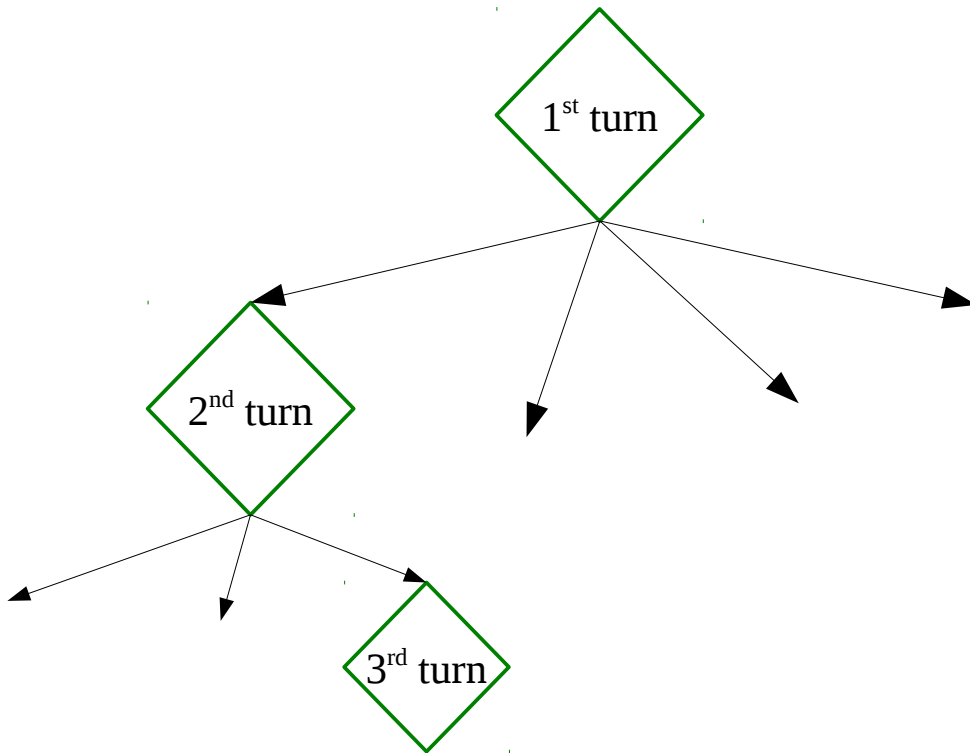
300 cm² ☐ 3 dm²

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.

1ˢᵗ turn

2ⁿᵈ turn

3ʳᵈ turn

N = _____

11 Find the two identical tricolor stripes.