

Homework for Lesson № 22

1 Solve the word problems:

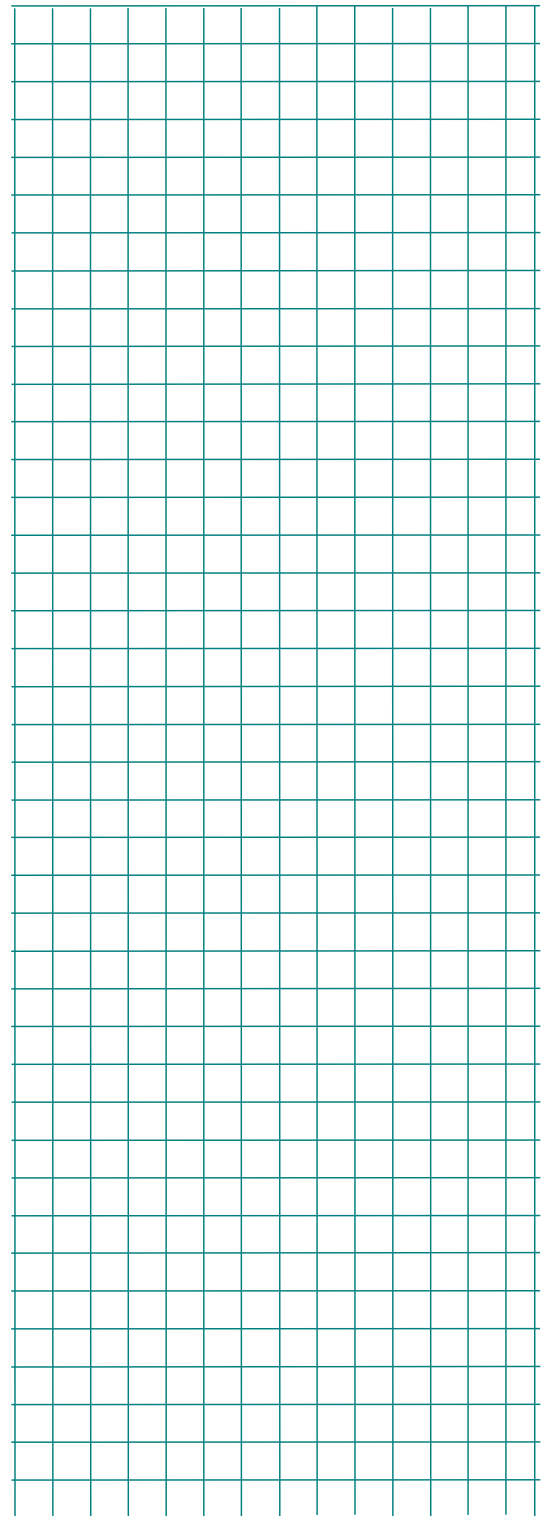
A. Foxy Tail needs to pack books before moving them. How many boxes are needed to pack 50 books if each box fits 6 books?

B. Little Joe needs to buy concentrated canned milk. How many cans can he buy with 50 coins if one can costs 6 coins?

C. A robot is packing colored pens. Each pack must have one black pen and two blue pens. How many packages will the robot make out of 26 black and 26 blue pens?

D. A robot is packing colored pens. Each pack must have one black pen and two blue pens. How many packages will the robot make out of 26 black and 36 blue pens?

E. A robot is packing colored pens. Each pack must have one black pen and two blue pens. Which pens out of 26 black and 46 blue pens will be left and how many of them?



2 Do in your notebook and copy your answers here:

Calculate:

$$4401 \div 9 = \underline{\hspace{2cm}} \quad 51300 \times 540 = \underline{\hspace{2cm}} \quad 13500 \div 30 = \underline{\hspace{2cm}}$$

Solve the equations:

$$8x + 43 = 307$$

$$3290 - 4800 : x = 2890$$

$$(2x + 4) + 74 = 254$$

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

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

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

3 Calculate:

$$4 \text{ cm} + 1 \text{ cm} =$$

$$1 \text{ m} + 12 \text{ m} =$$

$$\frac{2}{11} + \frac{1}{11} =$$

$$\frac{3}{p} + \frac{2}{p} =$$

$$3 \text{ cm} \times 5 =$$

$$2 \text{ m} \times 7 =$$

$$\frac{1}{11} \times 4 =$$

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

$$\frac{1}{7} + \frac{2}{7} =$$

$$2 \text{ kg} + 3 \text{ kg} =$$

$$\frac{1}{q} \times 12 =$$

$$\frac{1}{7} \times 5 =$$

4 Compare:

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

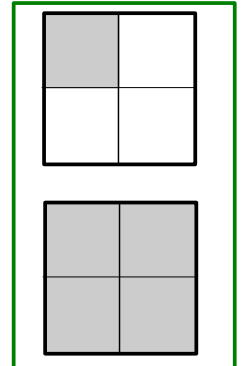
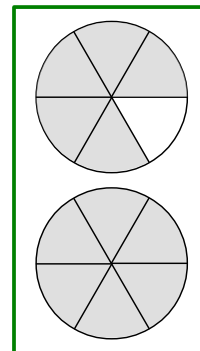
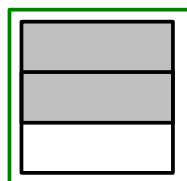
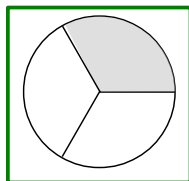
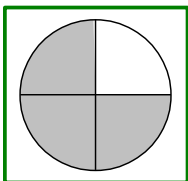
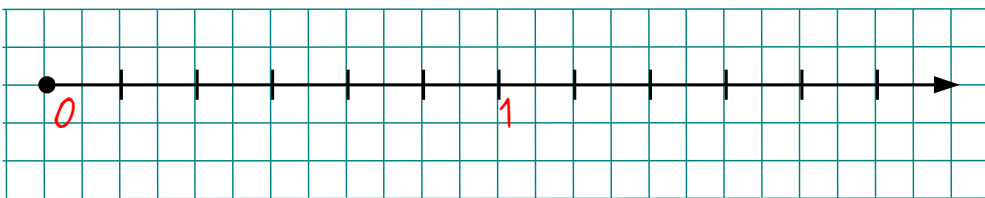
$$\frac{1}{4} \square \frac{1}{3}$$

$$\frac{1}{6} \square \frac{1}{11}$$

$$\frac{1}{9} \square \frac{1}{7}$$

$$\frac{1}{x} \square \frac{1}{x+1}$$

5 Mark on the number line the fractions from the drawings.



6 Calculate with regrouping using Egyptian symbols:

$$\begin{array}{r} \text{ⲟⲟⲟⲟⲛⲛⲛⲛⲛⲛ} \quad || \\ + \text{ⲟⲟ} \quad \text{ⲛⲛⲛⲛⲛ} \quad |||| \\ \hline \end{array}$$

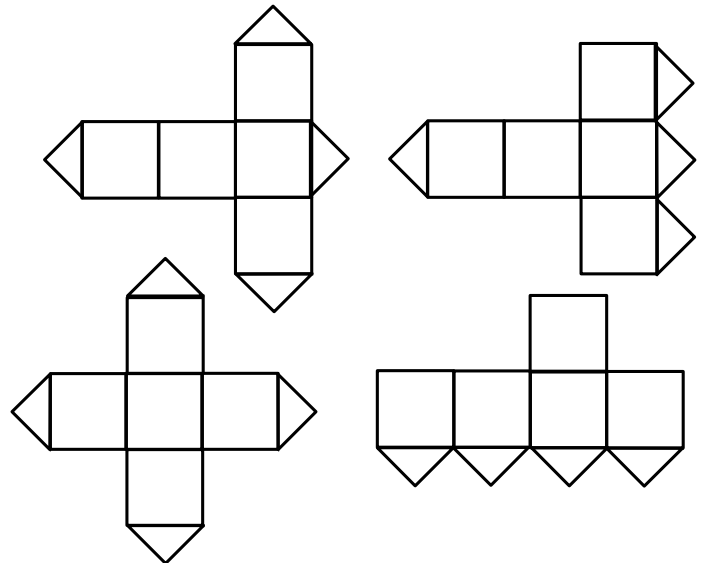
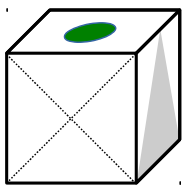
$$\begin{array}{r} \text{ⲙ} \quad \text{ⲟⲟ} \quad \text{ⲛⲛⲛⲛ} \quad ||||| \\ + \text{ⲙⲙⲙ} \quad \text{ⲟⲟ} \quad \text{ⲛⲛⲛⲛ} \quad ||| \\ \hline \end{array}$$

Number	Symbol	Description
1		Vertical stroke
10	ⲛ	Heel bone
100	ⲟ	Scroll
1000	ⲙ	Lotus flower
10,000	ⲙⲓ	Pointing finger
100,000	ⲙⲓⲛ	Fish
1,000,000	ⲙⲓⲛⲓ	Kneeling person

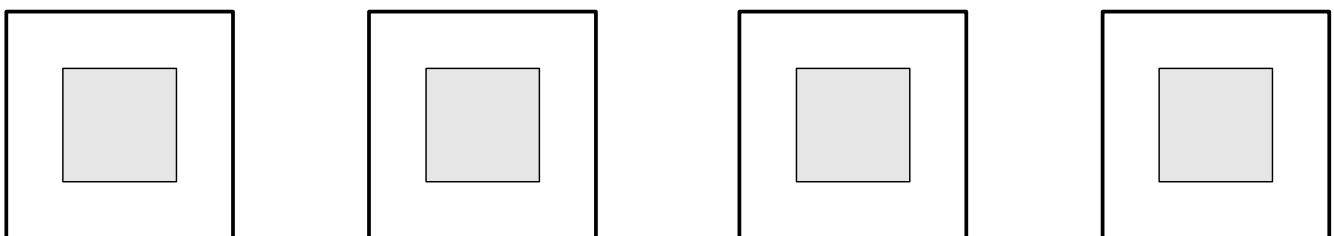
7 One of the faces of the cube shown below was cut along the dashed lines.

A. Cross out the impossible net.

B. On the rest draw possible locations of the drawings on the other two faces.



8 Divide each square into 4 identical parts in four different ways.



9 Write the programs to calculate the expressions; write down the transformed expression resulting after each step:

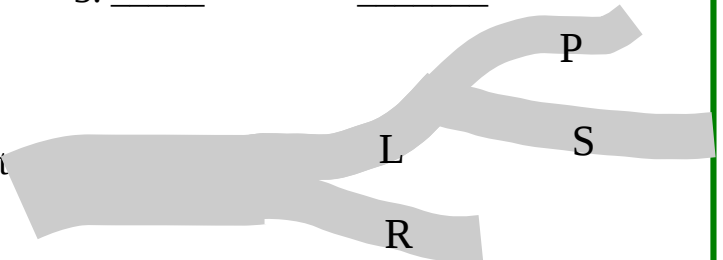
$12x - 15y$

$y : (3x + 6)$

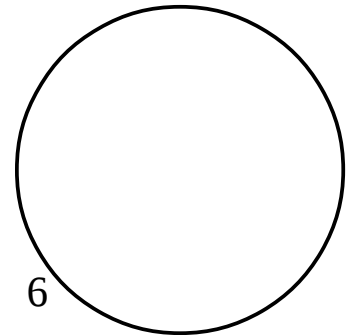
- 1. $12 \times x$ ① $- 15y$
- 2. _____
- 3. _____

- 1. _____
- 2. _____
- 3. _____

10 40 men and 20 women entered road A. 15 men and 10 women turned right into the road R and the rest turned into the road L. Out of the people who turned left 5 men and 5 women turned right into the road P. The rest turned right into the road S. How many people in total turned into the road S?



11 A group of children are standing in a circle playing a game. Each child has a number round the circle. A child with number 6 stands right across a child with number 13. Which number does child right across from the child with number one have?



12 During a crazy weekend of paint ball, our four friends were having great fun. The paint came in blue, green, yellow and red. Coincidentally, the four friends had T-shirts in those same colors. Jake the Mouse used blue paint balls. The person in the green T-shirt used yellow paint balls. Little Joe was not wearing a red T-shirt. Pop Eye used green paint balls and wore a blue T-shirt. Foxy Tail was the only person who used paint which was the same color as his T-shirt. Can you tell which color paint they each used and the color of their respective T-shirts?

T \ P	B	G	Y	R
B		PY		
G				

- 12** Use a compass and a straight edge to plot straight line $k \perp AB$. Record your algorithm:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

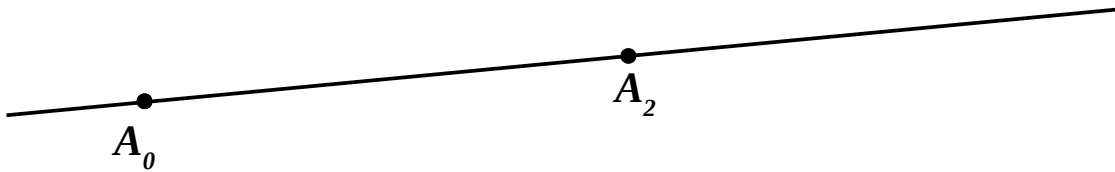
A

B

- 13** A bug is moving along a straight line. It started moving from the position A_0 and in 2 minutes went into position A_2 . Using a compass and a straight edge find ...

A. ... the position of the bug after the first minute (point A_1).

B. ... the position of the bug after 3 minutes (point A_3).



- 14** There are four points on a plain: $A(2, 0)$, $B(4, 9)$, $C(10, 10)$, $D(8, 1)$. Use a straight edge to plot straight lines AC and BD and to find the coordinates of point $E = AC \cap BD$. Label point E and its coordinates on the plot.

