## Homework for Lesson № 26

Convert the units (1 m = 100 cm = 10 dm = 1000 mm; 1 kg = 1000 g):

31 cm =	m	29 g=	kg	7 dm =	m	11 min =	h
1 mm =	cm	3 mm =	ст	13 min =	h	7 cm =	dm
1 mm =	m	9 cm =	m	17 g =	kg	3 cm =	m



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## Solve the equations:



**3** Use a compass and a straight edge to plot  $\angle AOX = \angle AOB$  and record your algorithm.

1. Plot $w = Circ($ ,	)		
2. Find			
3. Find			A
4. Plot <b>q</b> = Circ( ,	)	04	В
		0-	

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Write the programs to calculate the following expressions, for each one write a 4 corresponding transformed expression resulting from each step. 6w - 4xp + (2x - 3) : 41.6×w 1.\_\_\_\_\_ (1) - 4x2. 2.\_\_\_\_\_ 3. \_\_\_\_\_ 3. \_\_\_\_\_ 4.\_\_\_\_\_ 5 Fill in the blanks and calculate:  $16 \times \frac{3}{4} = 16 : \square \times \square =$   $18 \times \frac{1}{3} = 18 : \square \times \square =$  $15 \times \frac{2}{5} = 15 \times \square : \square = 24 \times \frac{2}{3} = 24 \times \square : \square =$ 6 Calculate: 2:  $\frac{2}{7} = 2 \times \frac{\Box}{\Box} =$  $6: \frac{5}{4} = 5 \times \frac{\Box}{\Box} =$  $1: \frac{3}{5} = 1 \times \frac{1}{5} = 1$  $4: \frac{1}{3} = 4 \times \frac{\Box}{\Box} =$  $5: \frac{3}{5} = 5 \times \frac{\Box}{\Box} =$ 2:  $\frac{3}{4} = 2 \times \frac{\Box}{\Box} =$  $6: \frac{2}{7} = 6 \times \frac{1}{10} =$  $4: \frac{1}{9} = 4 \times \frac{\Box}{\Box} =$  $1: \frac{2}{7} = 1 \times \frac{\Box}{\Box} =$ **In your notebook** write and solve equations based on the drawings: 6x + 9



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Transform the fractions into equivalent ones by changing their denominators and factors appropriately. Some examples are impossible to do. Cross them out.



**11** There are 240 students in the third grade and each of them either like math, language arts, or both.  $\frac{4}{5}$  of them like math,  $\frac{5}{8}$  of them like language arts. How many students like both math and language arts?

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<b>12</b> Simplify:			
$\frac{6}{8} = \frac{\Box}{\Box}$	$\frac{24}{32} = \frac{\Box}{\Box}$	$\frac{27}{9} = \frac{\Box}{\Box}$	$\frac{4}{8} = \frac{\Box}{\Box}$
$\frac{5}{15} = \frac{\Box}{\Box}$	$\frac{14}{21} = \frac{\Box}{\Box}$	$\frac{8}{32} = \frac{\Box}{\Box}$	$\frac{60}{90} = \frac{\Box}{\Box}$
$\frac{8}{16} = \frac{\Box}{\Box}$	$\frac{30}{50} = \frac{\Box}{\Box}$	$\frac{7}{28} = \frac{\Box}{\Box}$	$\frac{3}{9} = \frac{\Box}{\Box}$
<b>13</b> Compare the denominator:	fractions (<, >, =) by expa	nding them to a reasona	ble common
$\frac{\Box}{20} = \frac{3}{4} \Box \frac{2}{5}$	$=\frac{\Box}{20}$	$\frac{\Box}{\Box} = \frac{2}{5}$	$\Box \frac{3}{7} = \frac{\Box}{\Box}$
$\frac{\Box}{\Box} = \frac{3}{4} \Box \frac{5}{8} =$	=	$\frac{\Box}{\Box} = \frac{3}{5}$	$\Box \frac{7}{10} = \frac{\Box}{\Box}$
	llowing fractions as seque equences by calculating.	ences of multiplications of	and divisions.
$\frac{\Box}{\Box} = \frac{2 \times 6}{4} = \Box:$	□ × □ =	$\frac{\Box}{\Box} = \frac{10 \times 30}{6 \times 5} = [$	□×□:□:□=
<b>15</b> Simplify thes	e fractions without calcula	itions:	
$\frac{4 \times 7}{9 \times 4} = \frac{\Box}{\Box}$	$\frac{3 \times 27 \times 2}{2 \times 8 \times 27} = \frac{\Box}{\Box}$	$\frac{12 \times k \times 3}{3 \times 19 \times 12} = \frac{\Box}{\Box}$	

 $\frac{5 \times 9}{5 \times 7} = \frac{\square}{\square} \qquad \qquad \frac{7 \times 11 \times 4}{7 \times 5 \times 11} = \frac{\square}{\square} \qquad \qquad \frac{13 \times p \times 19}{19 \times m \times 13} = \frac{\square}{\square}$ 



Can you help LJ and FT prepare the mouse hole for The Grand-Grand-Ma visit? Remember the rules?

1) all rugs should be rectangular,

- 2) they can't overlap with each other, and
- 3) all floor surface should be covered with the rugs.

Can you help Little Joe and Foxy Tail in these rooms?

6			8
	3	4	
6			8

8			4	5
		4		
			8	
6				

		6		10	
	12		12		
8					

12				15
		1		
			12	
8				

This is a new room. Make you own rectangular rugs and write their areas.



