	Homework for Les	son № 11
1 Make you own	n auxiliary drawings needed t	o solve the word problems:
A raft drifts 40 km in drift in 8 hours?	n 5 hours. How far will it	$\begin{array}{c} & & \\$
A raft drifts 40 km in drift in <i>t</i> hours?	n 5 hours. How far will it	↓ time, t
– A raft drifts 42 km in take to drift 36 km?	n 7 hours. How long will it	
A raft drifts 42 km in take to drift <i>s</i> km?	n 7 hours. How long will it	
 * A raft drifts d km i take to drift s km? 	in q hours. How long will it v =	
2 Open parenthe where possible.	eses using the distributive pro	perty of multiplication. Calculate
3 × (a + b) =		$5 \times (x + 5) =$
8 × (10 + 2) =		$(x + y + 10) \times 2 =$
3 Replace to sin	nplify: 72 ÷ y + 5 = 9	q =
	x × 3 + 5= 17	

A raft flows down the river.

The speed of the river flow is 4 kilometers per hour: <i>v</i> = 4 <i>km/h</i>							
Time: t	1h	3h		6h		8h	
Distance: <i>s</i>			20 km		28 km		40 km

5 Multiply:

4



6

		_		
4	2			
	6			
		 		_

2	9			
	5			

Solve the equation using the steps like the ones in the sample:





 Perform the conversions for the units of distance and area:

 $2 dm^2 = _ cm^2$ $3 dm^2 = _ cm^2$ $5 m^2 = _ dm^2$
 $100 dm^2 = _ m^2$ $11 dm = _ cm$ $200 dm^2 = _ m^2$
 $500 cm = _ dm$ $300 dm^2 = _ m^2$ $20 dm^2 = _ cm^2$

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8 Use the sample in assignment **#6** to solve these equations **in your notebook**. Check your answers and copy them below. For each equation, make a diagram indicating the whole and its parts:



 $w \cdot 7 - 6 = 22$ z : 4 + 28 = 36 x : 3 - 17 = 19

 $w = ___$ $z = ___$ $x = ___$

 9
 Divide with or without a remainder:

 7
 4
 9

 9
 9
 26

Move the shapes according to the instructions; label the moved vertexes as A_2 , *etc.*



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36
15 Construct a circle that has only one intersection point with $s = \text{Circ}(W, 2 \text{ cm})$.
Where is this intersection point? Label it <i>K</i> .
Write down you algorithm in symbolic form:
1
2 Z
3 <i>was a second se</i>
4s
You may not need to use all four line or may need to use more than four.
* Can you find a second such circle?Where does it intersect circle s?
16 Venn Diagram depicts students liking different creatures. How many students like
snakes?
flies?
spiders AND flies? •
snakes OR spiders?
snakes only?
spiders BUT NOT snakes?
• • 7
BOTH flies AND spiders?
BOTH flies AND spiders AND snakes?

			37	
17	Which expression does each p	rogran	n evaluate?	
1):	k × w	1):	$q \div 4$	
2:	12 + ①	2:	①×5	To reconstruct an
3:	(2) – <i>x</i>	3:	(2) – 3	expressions work backwards and
				replace the result of each operation with
1):	$m \times 4$	1):	5 × <i>x</i>	the operation itself.
2:	<i>z</i> + <i>p</i>	2:	$12 \times y$	
3:	1) + 2)	3:	1) + 2)	

18 Jake the Mouse was caught by the Cheese Factory Manager. The Factory Manager decided that if Jake the Mouse solves the following riddle, he'll be free to go:

There are 3 boxes with cheeses. The boxes contain: Cheddar, Swiss and Cheddar and Swiss. Neither one of the actual labels is true.

JTM can open only one box, and take only one head of cheese from that box to be ready to identify the kind of cheese is in each box.

Which box should JTM open?

19 Mr. Brown the Cat is 9 years old. The brothers are discussing Mr. Red's age.

FT: *Mr. Red is definitely older than Mr. Brown.*

LJ: Foxy, are you lying again?

FT: No, not lying. I simply forgot that he's younger than Mr. Brown.

How old is Mr. Red?

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