Math 4. Homework 4.

school
nova ™

1. Find the numbers that are represented by the figures in the following problems.

A)

1. $\bigcirc + 12 = \triangle$

2. $\square : \triangle = 7$

3. $\triangle + 5 = \house$

4. $4 \cdot \house = 100$

B)

1. $\square : 9 = \square$

2. $\triangleright + \square = 84$

3. $3 \cdot \square = 162$

4. $90 - \bigcirc = \triangleright$

2. Compute using the most convenient way:

$23 \times 15 + 15 \times 77 =$

$79 \times 21 - 69 \times 21 =$

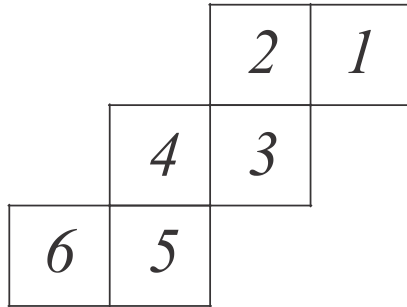$340 \times 7 + 16 \times 70 =$

$250 \times 61 - 25 \times 390 =$

$67 \times 58 + 33 \times 58 =$

3. Solve the equations

$5 (x + 25) = 10 (x + 10)$

$28 - 4x = 50 + 3x - 45$

4. On a picture below is the surface of a cube. List three pairs of numbers on the opposite sides of this cube.

		2	1
	4	3	
6	5		

5. * 3 lines intersect at 1 point and form 6 angles. One is 44°, another is 38°. Can you find all other angles?

6. *Right angle is divided into 3 angles by 2 rays. One of this angles by 20° more than the other and by 20° less the third one. What are the measures of these 3 angles?

7. On the picture below ∠BOD = 152°, ∠COD = 55°, angle ∠AOD is a straight angle. Find the measures of all other angles on the picture.
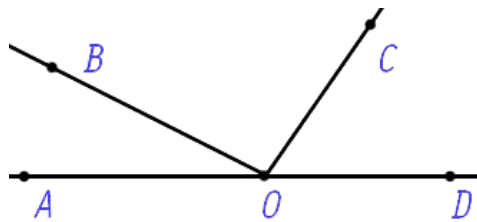
8. Draw all possible positions of a circle and a straight line on a plane. How many common points can the circle and the line have? (To draw circles, use a compass, to draw lines always use a ruler!)

*9. A goat is tied to a stake in the corner of a building with a 5-yard-long rope. What shape it will graze if the lengths of the walls are as follows:

1.   AB =6 yards and BC = 7 yards   2. AB =4 yards and BC = 5 yards