

## Math 4. Homework 4.

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

1)  $\bigcirc + 12 = \triangle$

$$\square : \triangle = 7$$

$$\triangle - 5 = \text{hexagon}$$

$$4 \cdot \text{hexagon} = 100$$

2)  $\square : 9 = \square$

$$\triangle + \square = 84$$

$$3 \cdot \square = 162$$

$$90 - \bigcirc = \triangle$$

2. Compute using the most convenient way:

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

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

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

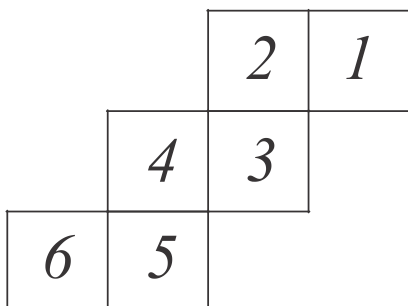
$$250 \times 61 - 25 \times 390 =$$

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

$$55 \times 682 - 45 \times 682 =$$

3. On the first shelf there are 5 more books than on the second shelf and 5 less books than on the third shelf. There are 105 books altogether. How many books are there on each shelf? (Write an equation to solve the problem.)

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



5. Find an equivalent fraction:

$$\frac{1}{16} = \frac{\quad}{32}$$

$$\frac{6}{9} = \frac{\quad}{81}$$

$$\frac{2}{7} = \frac{\quad}{21}$$

$$\frac{2}{\quad} = \frac{10}{15}$$

6. Find ...

$$\frac{3}{5} \text{ of } 20$$

$$\frac{7}{12} \text{ of } 60$$

$$\frac{3}{10} \text{ of } 60$$

7. \* 3 lines intersect at 1 point and form 6 angles. One is  $44^\circ$ , another is  $38^\circ$ . Can you find all other angles?
8. \*Right angle is divided into 3 angles by 2 rays. One of this angles by  $20^\circ$  more than the other and by  $20^\circ$  less the third one. What are the measures of these 3 angles?
9. On the picture below  $\angle BOD = 152^\circ$ ,  $\angle COD = 55^\circ$ , angle  $\angle AOD$  is a straight angle. Find the measures of all other angles on the picture.

