Homework #3.

Due on October 15, 2017



- **1.** Solve the following equations:
  - a.  $\frac{1}{3} + z = \frac{2}{3}$ b.  $\frac{3}{4} + y = 1$ c.  $\frac{5}{7} - x = \frac{4}{7}$
- **2.** The price of one kilogram of cookies is 12 dollars. What will be the cost of
- a.  $\frac{1}{4}$  of a kilogram b.  $\frac{2}{3}$  of a kilogram
- c.  $\frac{3}{4}$  of a kilogram
- d.  $\frac{7}{6}$  of a kilogram
- 3. Mark with color pencil

a. Line $\overrightarrow{AB}$	A	B	
b. Line segment $\overline{AB}$	A	B	
c. Ray $\overrightarrow{AB}$	A	B	
d. Ray <b>B</b> A	A	В	

- 4. Draw all possible position 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 compass, to draw lines always use ruler!)
- 5. Draw the line *a* and mark points A, B, C, D, K on the line *a* so that
  - a. Point C belongs to the segment [AB];
  - b. Point D belongs to the ray AB and doesn't belongs to the segment [AB];
  - c. Point K belongs to the ray BA and doesn't belongs to the segment [AB];
- 6. Match the name with its picture



- 7. Solve the following equations:
  - a. 3z 11 = 16
  - b. 62 + 2y + 5 = 81
  - c. 101 4x = 21

8. Peter spent 2 hours doing his homework.  $\frac{1}{3}$  of this time, he spent doing his math homework and  $\frac{1}{4}$  of the remaining time he spent on the history assignment. How many minutes did Peter spent on his history assignment and how many minutes did he spent doing his math homework?

- 9. Solve the problem:
  - a.  $\frac{1}{7}$  of all students in the class is 4. How many students are there in the class?
  - b.  $\frac{2}{5}$  of all students in a class is 10. How many students are there in a class?
- 11.Compare

**a.** What is bigger, the number 
$$c$$
 or  $\frac{2}{3}$  of the number  $c$ ? Why?

**b.** What is bigger, the number b or  $\frac{3}{2}$  of the number b? Why?

**c.** What is bigger, 
$$\frac{2}{3}$$
 of a number m or  $\frac{3}{2}$  of a number m? Why?

We do not have classes next week! You will have 2 weeks to complete your homework!

