Homework 3.

- **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

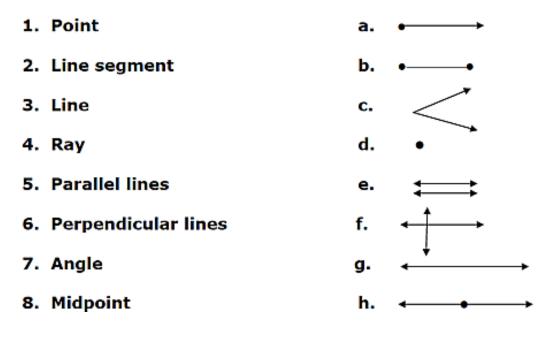
a.
$$\frac{1}{4}$$
 of a kilogram

- 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 AB	<u></u>	B
b. Line segment \overline{AB}	A	<i>B</i>
c. Ray \overrightarrow{AB}	A	<i>B</i>
d. Ray \overrightarrow{BA}	A	B



- **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?