Math 4e. Homework 23.

1. Using the protractor draw angles 20°, 30°, 60° so, that they all have one common side.

2. Draw a quadrilateral which has three right angles. What would be the fourth angle?

3. Draw a square. Draw the diagonals in this square. Which angle the diagonal forms? Why do you think so?

4. If you look at a 10-degree angle through a magnifying glass, what would be the measure of the angle you see?

5. It takes Mary needs $\frac{5}{12}$ hours to walk from her home to the railroad station, her father can walk the same distance in 0.25 hour. Mary's speed is 2.4 km per hour less than the father's speed. What is the distance between the house and the station?

6. A pool can be filled by one pipe in 36 hours, and by the second pipe in 48 hours. Pool was filling by the first pipe for 12 hours and then by the second pipe only. How many hours did it take to fill the pool?

7. Do the calculation, write down only the answers. Try to do it less than 2 minutes.

   $0.36 : 0.9$; $3.4 + 0.16$;
   $0.8 + 0.02$; $4.2 - 0.02$;
 $4 - 1.75$; $2.5 \cdot 0.08$;
   $21.6 \cdot 0.1$; $6.4 : 0.04$;

8. Fill the table:

n	11	12	13	14	15	16	17	18	19	20
n^2										

Using this table find the value:

1.8^2, 1.3^2, 1.6^2, 0.11^2, 0.17^2, 0.012^2, 0.015^2, 0.019^2

9. Copy the figures to a graph paper:
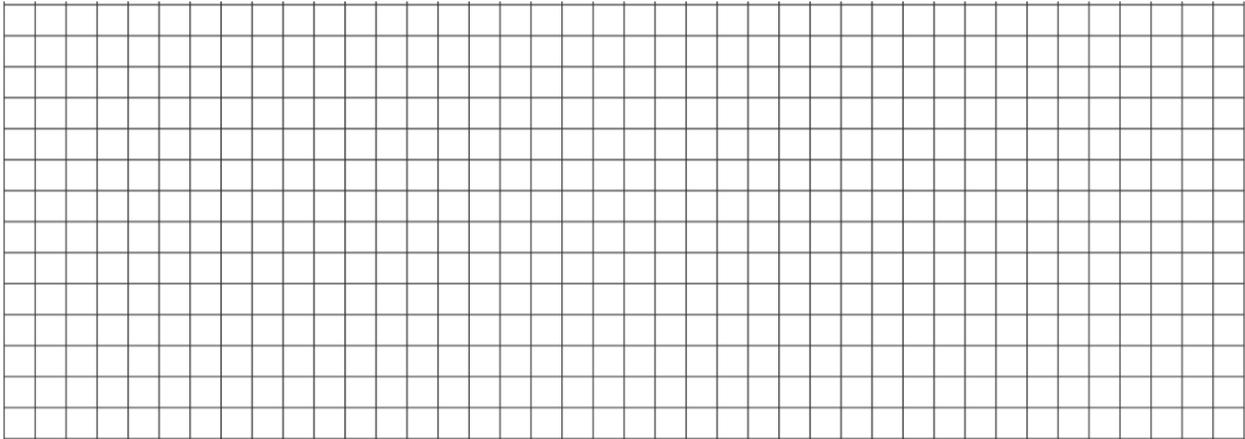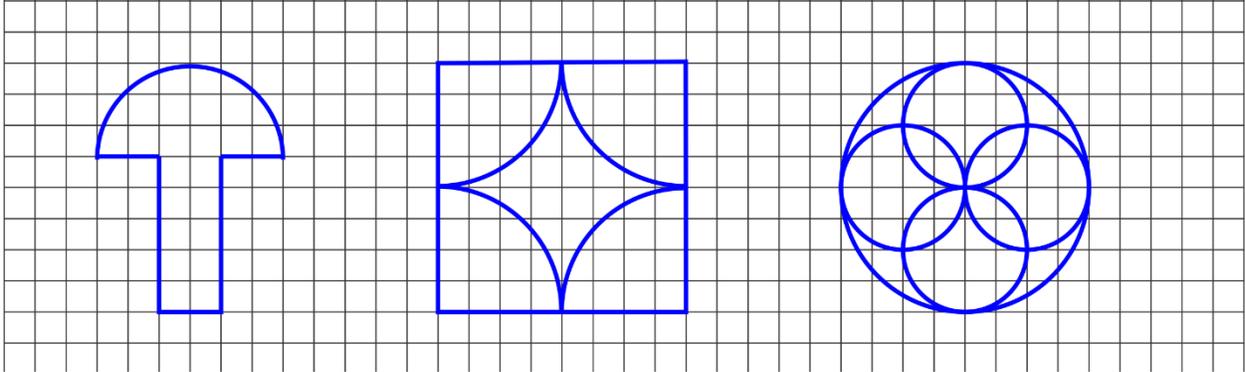
10. Construct a triangle with sides equal to given segments