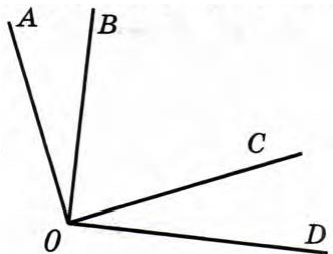


Math 4a. HW 25.

1. Find missing digits represented by pictures. (hint – they are not 0, 1, 4, 6, 7)

$$\begin{array}{r} \begin{array}{ccc} \text{bicycle} & \text{hedgehog} & 7 \\ + & \text{star} & 4 \\ \hline 1 & \text{bicycle} & 0 & \text{star} \end{array} \end{array}$$

2. List all angles you can find on the picture. (Example:  $\angle AOB, \dots$ )



3. Pertain mathematician of a 9<sup>th</sup> century Muhammad Al-Khwarizmi in his book “Arithmetic” gives a following problem:  
If from the number we subtract one third and one quarter (of that number), the result will be 10. Find the number.

Solve it.

4. Sets

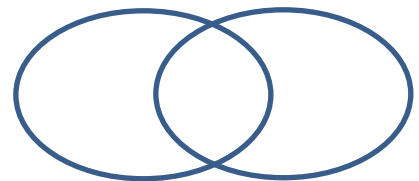
$$A = \{1, 3, 5, 7, 10, 12, 15\}$$

$$B = \{2, 4, 6, 7, 10, 12, 17\}$$

Find the intersection and the union of these sets:

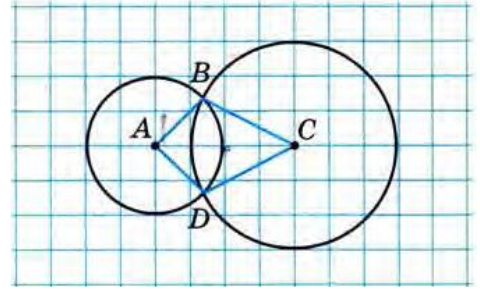
$$A \cup B \text{ and } A \cap B.$$

Put the numbers into diagram:



5. Find the perimeter of the quadrilateral ABCD if the side of a small square of the grid is 5 mm.

6. Peter measured the time between a lightning and a thunder during the thunderstorm. How far is the Peter's house from the center of the thunderstorm if the time was 6 seconds and speed of sound in the air is 330 m/s?
7. Fill in the table.



$a$	-1	4	10	-8	-4
$b$	1	-2	2	5	-3
$c$	3	-6	-5	-6	-2
$a \cdot b \cdot c$					
$(-a) \cdot b \cdot c$					
$(-a) \cdot (-b) \cdot c$					
$(-a) \cdot (-b) \cdot (-c)$					