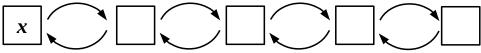
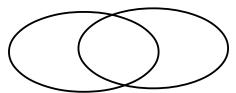
Homework for Lesson № 8

Write expressions to solve the word problems and evaluate them where possible: A snail crawls 2 cm every minute. How far will it crawl in 7 min? 7 min A snail crawls v cm every minute. How far will it crawl in 12 min? A snail crawls *v* cm every minute. How far will it crawl in t min? A snail crawls 3 cm every minute. How long will it take for it to crawl 21 cm? A snail crawls 3 cm every minute. How long will it take for it to crawl d cm? A snail crawls *v* cm every minute. How long will it take for it to crawl **d** cm? Analyze the operations and undo them to solve the equation:

X	×	5	÷	3	÷	2	=	5		
										.,
X	=									X
									1	

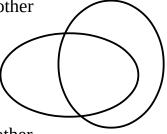


- **3** Place a total of 4 elements (dots) into each Venn Diagram below to yield...
- *a*). ... 3 elements in each set

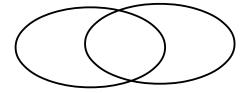


Make sure, there are exactly 4 dots in each Venn Diagram!

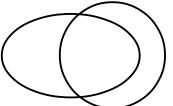
b). ... 2 elements in one set and 3 in the other



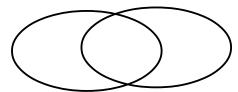
c). ... 4 elements in one set and 3 in the other



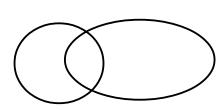
d). ... 0 elements in one set and 4 in the other

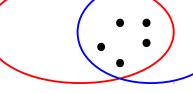


e). ... 4 elements in each set

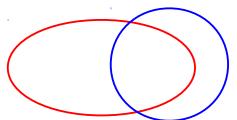


f). ... 2 elements in each set





Here only 5 elements yield 5 elements in each set.



Can you distribute 5 elements to make 4 in one and 5 in the other?

Fill in the tables

X	123	625		419		236	76
y	99		167	192	374		287
x + y		702	298		429	509	

X	234	625		419		236	276
у	99		167	192	374		109
x-y		223	298		429	83	

X	56	36	63		72	42	35
y	8		7	4			7
$x \div y$		4		7	9	6	

X	7		9	4			6
y		5		8	3	6	
$x \times y$	56	25	63		27	18	42

5 Use rectangle diagrams to solve the following equations for x:

$$\mathbf{w} \times \mathbf{x} = 24$$

$$g \div x = m$$

$$32 = \mathbf{x} \times 8$$

$$x \div y = z$$



Compare:

$$\mathbf{a} \times 3 - \mathbf{a} \times 2 \square \mathbf{a} \times 2$$

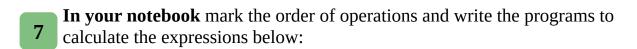
$$a \times 3 - a \times 2 \square a \times 2 \qquad w - (5 + 10) \square w - 5 - 10 \qquad q \div 10 \square q \div 20$$

$$\mathbf{q} \div 10 \square \mathbf{q} \div 20$$

$$\mathbf{m} \times 5 + \mathbf{m} \times 2 \square \mathbf{m} \times 7$$
 $\mathbf{b} - (3 + 8) \square \mathbf{b} - 3 + 8$ $\mathbf{a} \times 1 \square \mathbf{a} \times 0$

$$b - (3 + 8) \square b - 3 + 8$$

$$\mathbf{a} \times 1 \square \mathbf{a} \times 0$$



a).
$$q - 12 \times z + 6$$

b).
$$q - 12 \times (z + 6)$$

c).
$$(q-12) \times (z+6)$$

In your notebook use rectangle diagrams to solve the following equations. Copy your answers here.

$$\mathbf{v} \times 8 = 64$$

$$\mathbf{z} \div 9 = 4$$

$$7 \times x = 56$$

$$54 \times \mathbf{w} = 6$$

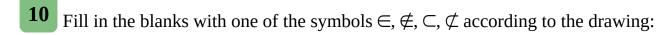
9 Set
$$\mathbf{M} = \{a, \square\}$$
, set $\mathbf{K} = \{m, 4\}$, set $\mathbf{D} = \{a, m, \square, \bigstar\}$

Draw a Venn Diagram for these sets.

Use you diagram to fill in the blanks below with symbols \subset and $\not\subset$:

M ... D

K ... D



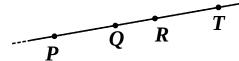
$$P \dots [QR]$$

$$P \dots [QR)$$

$$[RT] \dots PR$$

$$Q \dots [TR)$$

$$[RQ] \dots RT$$

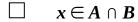


$$[QR) \dots QR$$

$$[RQ) \dots PT$$

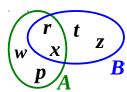
$$[QR) \dots [RQ)$$

11 Check the TRUE statements; cross mark the FALSE statements.



$$\square$$
 $\mathbf{r} \notin \mathbf{A} \cap \mathbf{B}$

$$\square$$
 $z \in A \cap B$

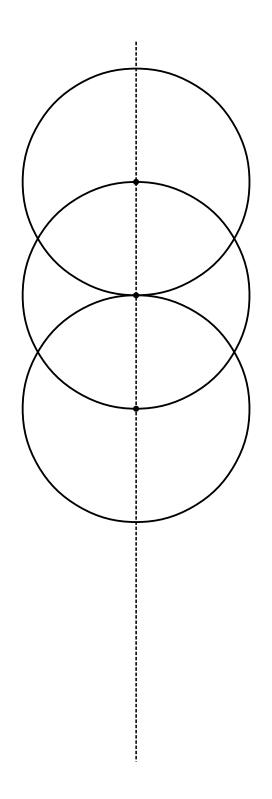


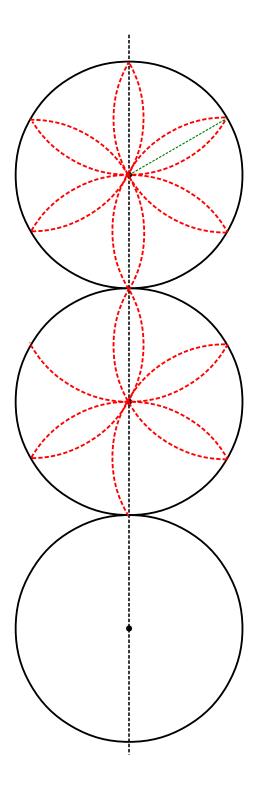
$$\Box$$
 $A \cap B \in A$

$$\square$$
 $A \cap B \in B$

<i>a).</i> Mark a point How many rays do yo				S					
Mark 2 points on line How many rays do yo	-								
Mark 3 points on line How many rays do yo	w.	_	W						
Mark 4 points on line <i>m</i> . How many rays do you see? <i>m</i> 13 Fill in the table									
# of points marked	1	2	3	4	10	X			
# of rays produced									
A raft evenly du in 5 hours?			_		_	id it move			
2									
A train moves 28 km	in seven m	inutes. How	long does i	it take to ti	ravel 63 km	?			
1				_					
2									

Use a compass to continue the patterns:





16 Cat Island, where the brothers are stuck, has 6 towns: **A**, **B**, **C**, **D**, **E**, and **F**.

Every town is connected to two closest towns by roads. Say, town ${\bf A}$ is connected to towns ${\bf B}$ and ${\bf F}$.

Also there are roads directly connecting towns **A** and **D**, and towns **B** and **F**.

Plot these roads on the graph **1**.

Orange cats use bus #1 that begins and ends at the town **A** and skips only towns **E** and **F**.

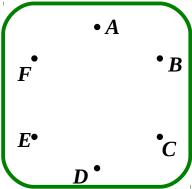
Plot the route of the bus #1 on the graph 2.

Purple cats use bus #2 that begins and ends at the town **C** and skips only town **A**.

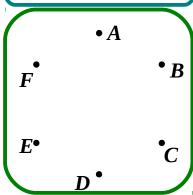
Plot the route of the bus #2 on the graph **3.**

Complete the graphs below:

Roads that both orange and purple cats use.

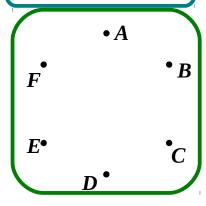


Roads that either orange or purple cats use.



Roads that orange cats do not use.

 E^{\bullet}



A bug is sitting on the object's face that we cannot see from this angle. Color that face yellow.

