## Homework for Lesson Nº 7

Write expressions to solve the word problems and evaluate them where possible:

**A.** A family of four spent *m* dollars on a concert tickets. How much would the tickets cost to a family of six?

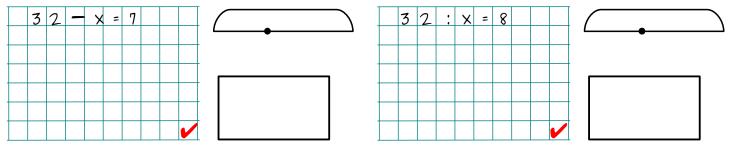
**B.** An 8 kg sample of Alaskan clay contains 72 micro-grams of gold. How many micro-grams of gold are in 10 kg of clay?

**C.** One mouse brother can eat *w* apples in one day. How many apples can 4 brothers eat in 3 days?

**D.** A store keeps banana in boxes (7 kg per box) and apples in bags (3 kg per bag). A worker put on a cart x banana boxes and y apple bags. How big is the load?

**E.** Nick can hike 12 km in 2 hours. How many kilometers can she hike in 3 hours?

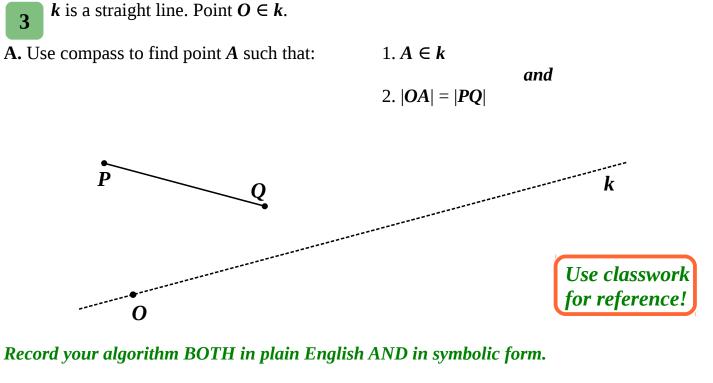
**2** For each equation choose the correct auxiliary drawing. Use it to solve the equations and then check your answer.











Writing Program Steps				
	Plain English Writing	Symbolic Writing		
1.	Plot	Plot		
2.	Find	Find <b>A</b> :		

**B.** Use compass to find point **B** such that:  $1. B \in k$ 

and

2. |*AB*| = |*PQ*|

## Record your algorithm Either in plain English OR in symbolic form.

 1.

 2.

Explain your choice of English vs symbolic writing: \_\_\_\_\_

**4 In your notebook** solve the equations. Make drawings if you need. Check your answers and copy them below once they are correct.

519 - x = 67	<i>y</i> + 209 = 304	z - 25 = 76
<i>x</i> =	<i>y</i> =	<b>z</b> =
<b>p</b> :5=7	$\boldsymbol{q}  imes 7 = 42$	72 : <b>w</b> = 9
<i>p</i> =	<i>q</i> =	w =

5 Arthur went to the store 4 times last month. He buys 5 bottles of apple juice each time he goes to the store. How many bottles of apple juice did Arthur buy last month?

There are 8 pencils in each box. How many pencils are in 9 boxes?

There are 20 liters of honey total in 3 jars. How many liters will be in one jar if we distribute all that honey evenly among 10 jars?

We need 120 logs to build 2 houses. How many logs do we need to build 6 houses?

Evelyn went to the store & times last month. She buys 11 stickers each time she goes to the store. How many stickers did Evelyn buy last month? 4

Mark the order of operations and calculate:

$$7 + (8 + 9) - 3 = \_ 9 - (2 + 7) = \_$$

$$(2 + 9) + 9 \times 6 = \_ 9 \times 3 - (6 - 4 + 5) = \_$$

$$(18 + 9) - (6 + 2 \times 6) =$$

There are several marbles in a bag including x red marbles. There are 3 times more green marbles than the red ones. The number of

orange marbles is *y* less than the number of

$$(5+1) \times (3-2+4) =$$

Beware of nonsense!

Complete the drawing and use it to explain the meanings of the expressions below.

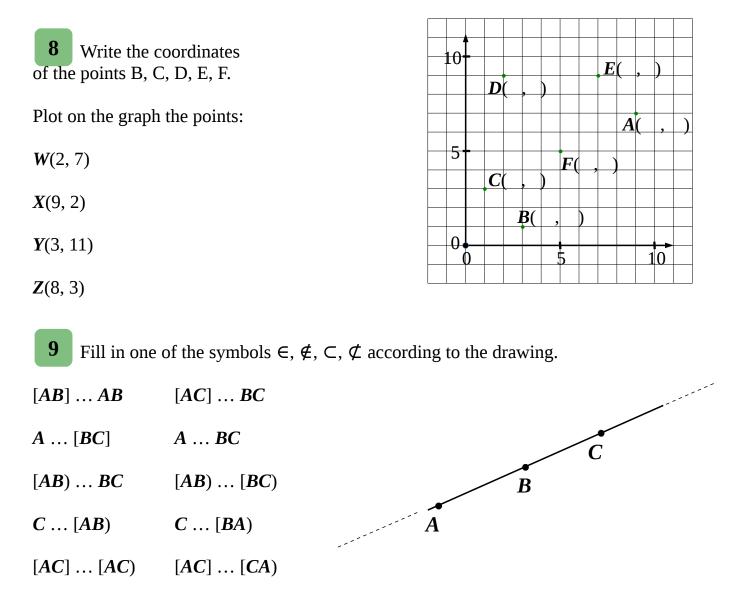
Try to identify the "nonsense" expressions

x × 3	# of
x:3	
$x \times 3 - y$	
$x \times 3 - x$	
$x \times 3 + x$	
$x \times y$	
$(x \times 3) \times (x \times 3 - y)$	
$x \times 3 + x + x \times 3 - y$	

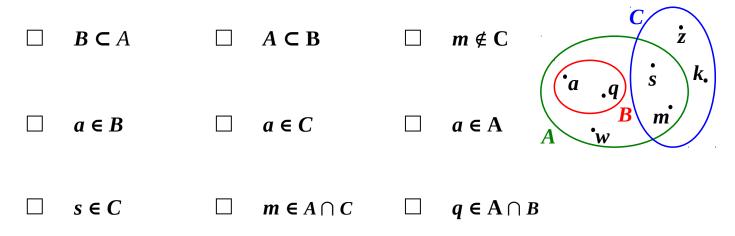
6

7

green.

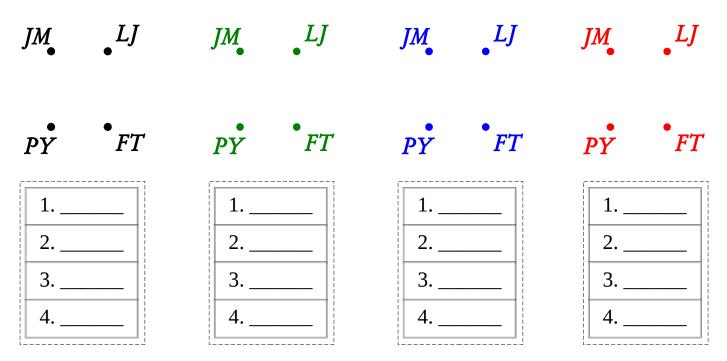


**10** Look at a Venn Diagram fro sets *A*, *B*, and *C*. Check ✓ the TRUE statements; cross mark X the FALSE statements.



11 Once Jake the Mouse obtained a shovel the brothers may start digging their mice holes. Since the shovel is an only one, they need to take turns digging.

Complete four graphs illustrating some possible ways the brothers may take turns digging.



Are there other possible ways to take turns digging? \_\_\_\_\_

## 12

There is a cat behind one door and a shovel behind another. The labels are *EITHER both truth OR both false*.

Find the shovel!

Insert figure with 2 doors

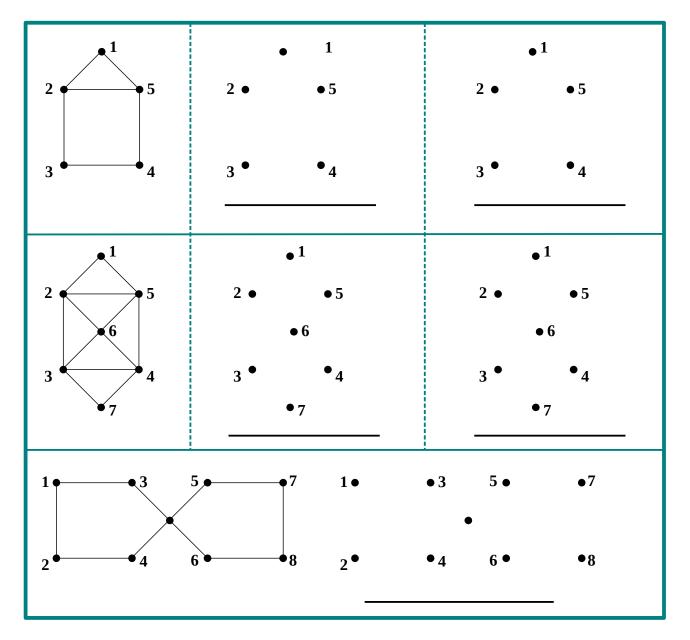
HW unit 5

## **Describing your Rout.**

Walking a graph is described by listing the nodes in the order of visiting them.

Each time you visit a node you list it again.

- Walk every edge of each graph without walking any edge twice.
- Describe you rout by listing the nodes in the visiting order.
- Walk the first two graphs in two different ways



7



**14** Complete the table by filling in the names of appropriate sets. If there is more than one correct option pick any.

	SETS	
$\bigcirc\bigcirc\bigcirc$		- two digit numbers
	- textbooks	
		- vowels
	- forest animals	

Complete the table by drawing a Venn Diagram for each pair of sets. 15

SETS	
- words	- nouns
- even numbers	- numbers
- flying animals	- birds
- cookies	- cars

