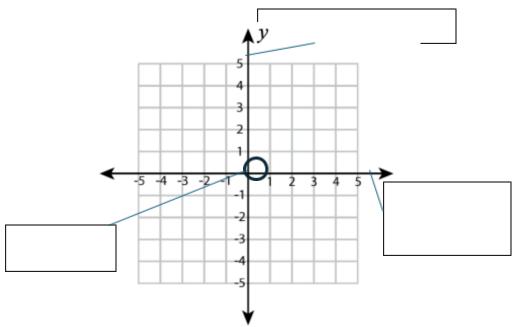
5.2 Graphing Coordinates

<u>Label the graph with the</u> <u>following:</u>

- X-axis
- Y-axis
- Origin
- Quadrant I
- Quadrant II
- Quadrant III
- Quadrant IV



Grade 8 Review - Graph Basics				
A graph or coordinate system is made up of TWO real lines:				
The X AXIS goesand (=horizontal axis)	The Y AXIS goesand (=vertical axis)			
The point where the two axes (plural of axis) cross is called the				
POSITIVE values of x will be to the	NEGATIVE values of x will be to the			
POSITIVE values of y will beWARDS	NEGATIVE values of y will beWARDS			

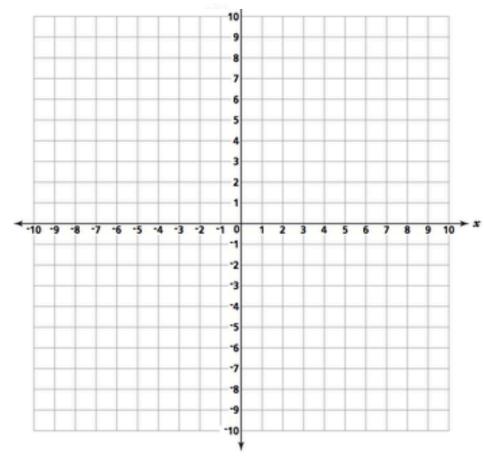
An ORDERED PAIR = A point on a graph with an x-coordinate and a y-coordinate. Basic form (X, y)						
This gives us information about the	of the point on the x-axis and y-axis (plural = axes)					
The position is RELATIVE to the						
Ex. SHOW (3, -4) on the graph above						
STEP 1: The x value is and the y value is	Don't forget the signs!					
STEP 2: This means the point will be						
3 to the of the origin AND	from the origin					
·	from the origin					

Example 2: Plot and label the following points with their letters on the graph below:

- A. (2,3)
- B. (-5,4)
- C. (3,-6)
- D. (-7,7)
- E. (4,0)
- F. (0,9)
- G. (-8,0)
- H. (0,-2)
- I. (0,0)
- J. (9.5, 8.5)

Graphing Steps

- Start at the ORIGIN
- Determine the **DIRECTION** from the origin based on whether the x and y coordinates are each positive or negative.
- · Count out the x-coordinate (x value)
- · From there count out the y-coordinate (y value)



Which quadrant is each of the following in on the graph above?					
Α	В	c	D	E	
F	G	н	I	J	
CHALLENGE – How would you graph (, -3)?					

Practice:

1. WRITE the coordinates of the labeled points on the graph below

H = (,)

K= (,)

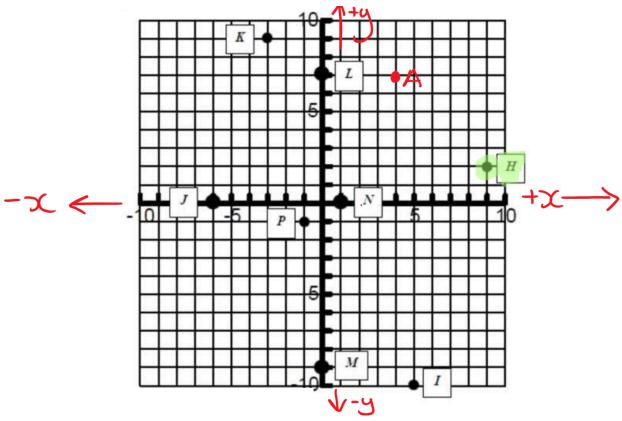
I = (,)

L= (,)

J = (,)

M= (,)

N= (,



2. Which of the points above have an x coordinate of 0?

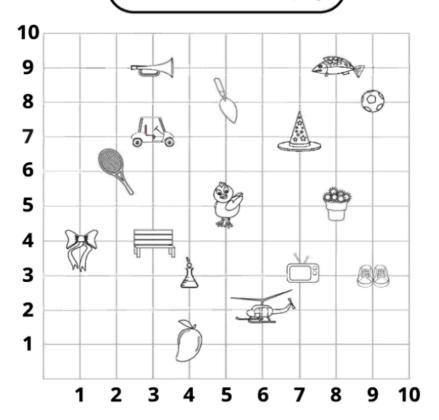
3. Which of the points above have a y coordinate of 0? _____

4. Fill in the table below

Quadrant⊡	I	II	III	IV
Sign of X-Coordinate? (+/-)				
Sign of Y Coordinate? (+/-)				

PRACTICE

Ordered Pairs (x,y)



Write the ordered pair for each of the objects listed.

example: television - (7,3)

Tell which object is located at each point.