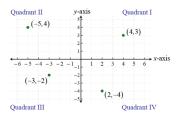
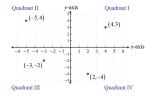
Learning Targets:

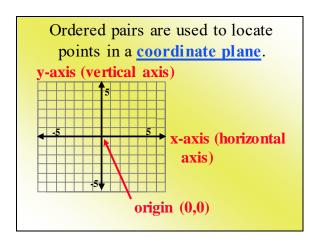
- I can use the signs and integers of the coordinates in an ordered pair to find its location in a coordinate plane.
- I can graph points in all four quadrants of the coordinate plane to solve real-world and mathematical problems.

We have been working on vertical and horizontal numberlines...now we are going to see what happens when they intersect at zero!



- -Horizontal number line is called the x-axis
- -Vertical number line is called to y-axis

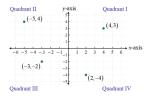




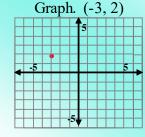
Ordered Pairs are made of two integers:

- -The first number is how far you go left or right (x).
- -The second number is how far you go up or down you (y).

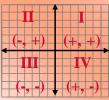
They are written like this (x, y)



In an ordered pair, the first number is always the **x-coordinate**. The second number is the **y-coordinate**.

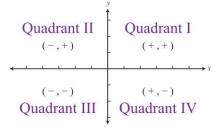


The x-axis and y-axis separate the coordinate plane into four sections, called **guadrants**.



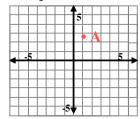
Quadrant - (Quad = 4) the four sections that are created when the number lines intersect.

Quadrant One (I) — Top right; x and y are both positive
Quadrant Two (II) — Tor left; x is negative, y is positive
Quadrant Three (III) — Bottom Left; x and y are both negative
Ouadrant Four (IV) — Bottom right: x is nositive, v is negative



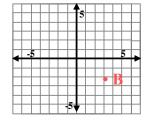
What is the ordered pair for A?

- 1. (3, 1)
- 2. (1, 3)
- 3. (-3, 1)
- 4. (3, -1)



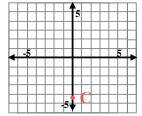
What is the ordered pair for B?

- 1. (3, 2)
- 2. (-2, 3)
- 3. (-3, -2)
- 4. (3, -2)



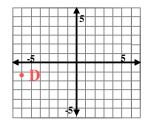
What is the ordered pair for C?

- 1. (0, -4)
- 2. (-4, 0)
- 3. (0, 4)
- 4. (4, 0)



What is the ordered pair for D?

- 1. (-1, -6)
- 2. (-6, -1)
- 3. (-6, 1)
- 4. (6, -1)



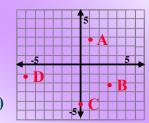
Write the ordered pairs that name points A, B, C, and D.

$$A = (1, 3)$$

$$B = (3, -2)$$

$$C = (0, -4)$$

$$D = (-6, -1)$$



Practice: Please use the graphing paper on the next slide for your answer. Scan or send a picture to boschl@luhsd.net

Plot each of the following points and label them with the letter:

- A(3, 4)
- F. (1,4)
- B (-5, 2)
- G. (-2,-1)
- C(3, -2)
- H. (6,-2)
- D (-1, -5)
- I. (-3,5)
- E (-4,-3)
- J. (0,0)

