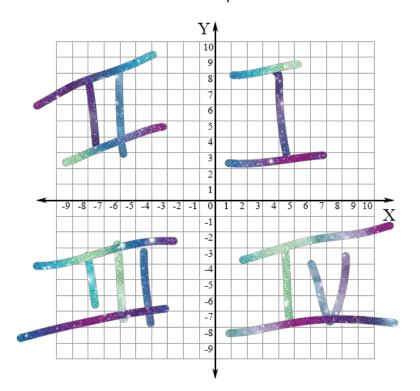
The Coordinate System

- A coordinate system, or <u>coordinate plane</u>, is used to locate points in a 2-dimensional plane.
- The horizontal number line is the $\chi q \chi_1 5$
- The vertical number line is the $\gamma \alpha \chi_1 \leq$
- Their intersection is the <u>ORIGIN</u>. (Label)



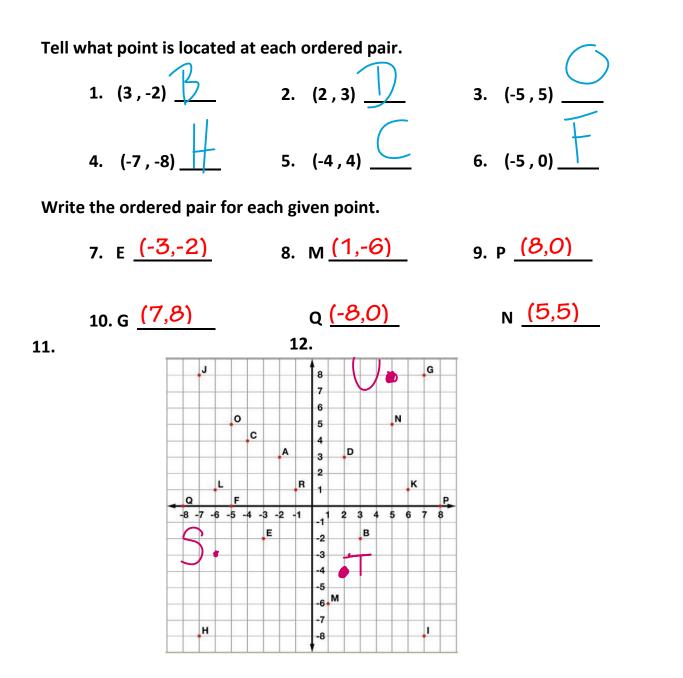
- The coordinate plane contains four quadrants (I, II, III, IV). Label the quadrants.
- Any point can be located within one of the four quadrants in the coordinate plane using a specific ordered pair of numbers, called its <u>Coord Nord</u> <u>Pair</u>.

(x , y)

- The first number in an ordered pair is the x-coordinate.
- The second number is the y-coordinate.

Example: (3,2) 3 is the x- coordinate, 2 is the y-coordinate.

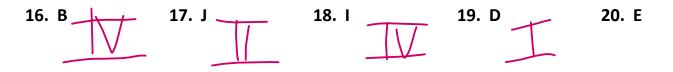
• A point is defined on the coordinate plane by one, AND ONLY ONE, ordered pair.



Plot the following points on the coordinate grid.

13. S (-6,-3) 14. T (2,-4) 15. U (5,8)

Identify the quadrant containing each point.



Graph and label the REFLECTION of each point on the coordinate plane

