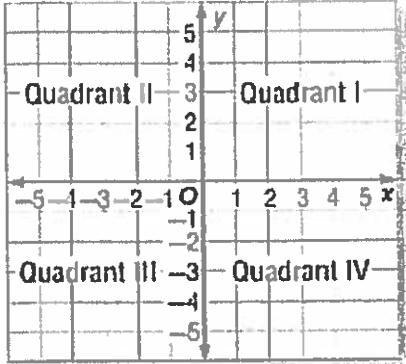


5.6 The Coordinate Plane (6.NS.6, 6.NS.6b, and 6.NS.6c)

Vocabulary

A coordinate plane is formed when the x-axis and y-axis intersect at their zero points.

The axes separate the coordinate plane into four regions called quadrants. You can use the location on the plane or use the x-coordinate and y-coordinate to identify the quadrant in which a point is located.



← the letter "C"

Reflection - Two points that are equal distance from zero on the coordinate plane.

Guided Practice

Identify the ordered pair that names each point or the name of each point. Then identify the quadrant in which it is located. (Examples 1 and 2)

1. T

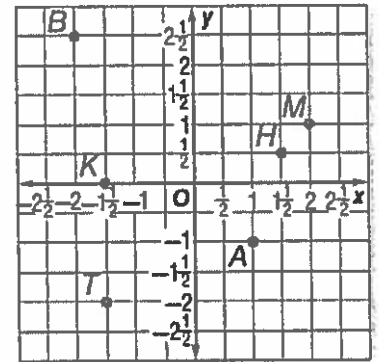
$(-1\frac{1}{2}, -2)$
Q III

2. $(-1\frac{1}{2}, 0)$

K
Q - none

3. $(-2, 2\frac{1}{2})$

B
Q II



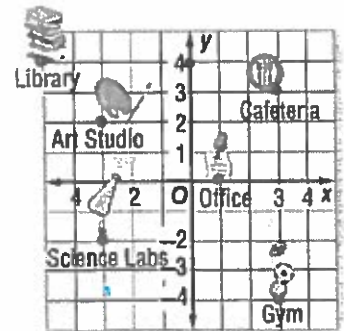
4. Refer to the diagram of a school. (Examples 3 and 4)

a. What is located at the reflection of $(-3, -4)$ across the y-axis. What are the coordinates of this location?

gym $(3, -4)$

b. What is located at the reflection of the science labs across the x-axis? What are the coordinates of this location?

art studio $(-3, 2)$



c. What is the distance from the Art Studio to the Science Labs?

4 units

Building on the Essential Question- How are number lines and the coordinate plane related?

The coordinate plane is made up of 2 number lines.

Rate Yourself

Are you ready to move on? YES or NO

← Rate yourself!