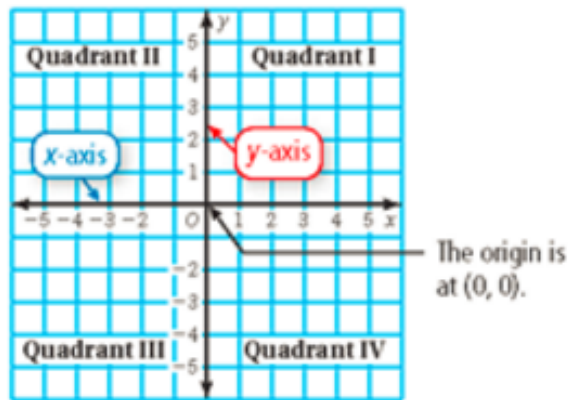


Cornell Notes	Name: _____
Topic: <u>The Coordinate Plane Lesson 6.5</u>	Date: _____
	Period: _____

Essential Question: How can you graph and locate points that contain negative numbers in a coordinate plane?

Questions/Main Ideas:	Notes:
Vocabulary	Coordinate plane- is formed by the intersection of a horizontal number line and vertical number line
	Origin- this is where the intersecting lines meet at a point and break the coordinate plane into four quadrants.
	Quadrants- four regions on a coordinate plane

Example of Coordinate Plane



Example 1 Identifying an Ordered Pair

1.) Which ordered pair corresponds to point P?

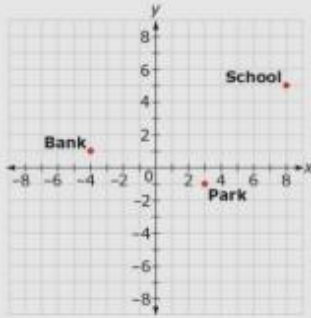
2.) Which ordered pair corresponds to point S?

3.) What ordered pair corresponds to point Q?

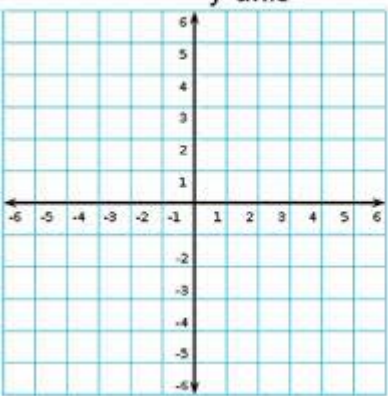
4.) What ordered pair corresponds to point R?

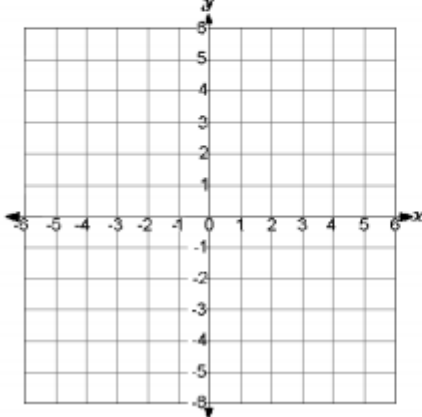
5.) What ordered pair corresponds to point T?



You Do!	<p>A map of a town is shown.</p>  <p>The town wants to build a new library that is 5 blocks away from the park and 6 blocks away from the school.</p>
----------------	--

What would be the location of the new library?

Example 2	<p>Plotting Ordered Pairs</p>  <p>6.) (3, -1)</p> <p>7.) (-5, 0)</p> <p>8.) (-2.5, -1)</p> <p>9.) (-1 1/2, 1/2)</p>
------------------	--

You Do!	<p>A set of points is shown.</p> <p>(5, 1.5), (0, 2.5), (-1.5, -6), (4, -3), (-4.5, 1.5)</p> <p>Plot the ordered pair from above on the coordinate plane and connect the points as you plot.</p> 
----------------	--

Example 3	<p>Finding Distances in the Coordinate Plane</p> <p>*Add the absolute values of the x-axis if they are negative and positive values.</p>
------------------	---

	*Add the absolute values of the y-axis if they are negative and positive values.
	*Subtract the absolute values of the x-axis if they are both negative or both positive.
Perimeter	*Subtract the absolute values of the y-axis if they are both negative or both positive.
	Step 1: Connect the points in the order that you plot them.
	Step 2: Add the x-axis absolute values of one side.
	Step 3: Subtract the y-axis absolute values of one side.
	(-4, 5), (2, 5), (-4, 1), (2, 1)
	What is the perimeter of the figure?
A= L x W	What is the area of the figure?
Summary: Students should write a summary reflecting the above essential question.	

