NAME

Study Guide

The Coordinate Plane

5-1

In the diagram at the right, the two perpendicular lines, called the *x*-axis and the *y*-axis, divide the coordinate plane into Quadrants I, II, III, and IV. The point where the two axes intersect is called the origin. The origin is represented by the ordered pair (0, 0).

Every other point in the coordinate plane is also represented by an ordered pair of numbers. The ordered pair for point Q is (5, -4). We say that 5 is the *x*-coordinate of Q and -4 is the *y*-coordinate of Q.

Example: Write the ordered pair for the point R above.



To graph any ordered pair (x, y), begin at the origin. Move left or right x units. From there, move up or down y units. Draw a dot at that point.

Graph each point on the coordinate plane at the right.

1. <i>A</i> (0, 0)	2. <i>B</i> (5, 0)
3. <i>C</i> (-3, 4)	4. D (4, -5)
5. <i>E</i> (-2, -3)	6. <i>F</i> (2, -1)

Write the ordered pair for each point shown at the right. Name the quadrant in which the point is located.

7. *G* **8.** *H* **9.** *I* **10.** *J*





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