4-1

The Coordinate Plane (Pages 192–196)

You can graph points on the **coordinate plane**, shown below.

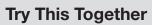
The Coordinate Plane										
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You name points in the coordinate plane with ordered pairs of the form (x, y). The first number is the *x*-coordinate and corresponds to numbers on the horizontal or x-axis. The second is the y-coordinate and corresponds to numbers on the vertical or y-axis. These two axes divide the plane into four quadrants. The quadrants are numbered in a counterclockwise direction, starting at the upper right corner of the plane. The axes intersect at their zero points, a point called the origin, which has an ordered pair of (0, 0).

Example

Graph the point P(-2, -3). Name the quadrant in which the point is located.

Move from the origin 2 units to the left, since the x-coordinate is negative. Then move 3 units down, since the y-coordinate is negative. This point is in Quadrant III.



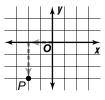
Use the graph in PRACTICE below.

1. Write the ordered pair that names point A. Name the quadrant in which the point is located.

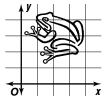
HINT: Write your ordered pair in the form (x, y).

Practice

Write the orde which the poin	ered pair for each nt is located.	point. Name the q	uadrant in	
2. C	3. D	4. <i>E</i>	5. <i>F</i>	
6. G	7. <i>B</i>	8. <i>I</i>	9. J	
Graph each po	pint.			
10. <i>M</i> (3, 1)	11. <i>P</i> (2, -3)	12. <i>T</i> (-4, 2)	13. N(0, 4)	14. G(-
15. <i>K</i> (-3, 3)	16. $Q(5, -2)$	17. <i>Y</i> (3, 0)	18. <i>V</i> (0, -1)	19. <i>W</i> (4
	Test Practice Which of the point where the B (1.5, 4) D (4, 1.8)	he frog's eye is locate 4)		



-5, -3)(4, 4)



9. (2, -2), Quadrant IV 10-19. See Answer Key. 20. B

5. (0, -1), border of Quadrants III and IV 6. (3, 3), Quadrant I 7. (2, 0), border of Quadrant 1 and IV 8. (-3, 2), Quadrant II Austrari II. (2, -2, -2), Quadrant II. 2. (-7, -2), Quadrant III. 4. (-2, -3), Quadrant III. 4. (-2, -3), Quadrant II. Chapter 4