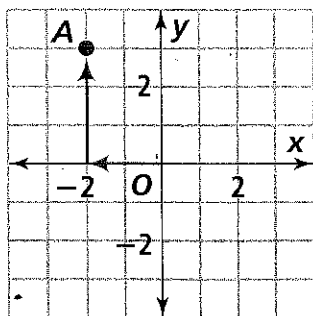**1 EXAMPLE**   **Name the coordinates of point A in the graph.**
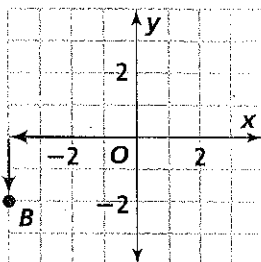
Move 2 units to the left of the origin. Then move 3 units up.

The coordinates of A are $(-2, 3)$.

The Coordinate Plane

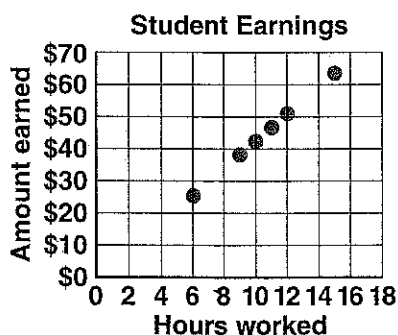**2** **EXAMPLE** Graph the point $B(-4, -2)$ on the coordinate plane.

Move 4 units to the left of the origin.
Then move 2 units down.

3 **EXAMPLE** In which quadrant or on which axis would you find each point?

a. $(2, -5)$ Since the x-coordinate is positive and the y-coordinate is negative, the point is in Quadrant IV.

b. $(6, 0)$ Since the y-coordinate is 0, the point is on the x-axis.

4 **EXAMPLE** The table shows the number of hours worked and the amount of money each person earned. Make a scatter plot of the data.

Name	Hours worked	Amount earned
Janel	6	$25.50
Roscoe	12	$51.00
Victoria	11	$46.75
Alex	9	$38.25
Jordan	15	$63.75
Jennifer	10	$42.50

For 6 hours worked and earnings of $25.50, plot (6, 25.50).

The highest amount earned is $63.75. So a reasonable scale on the vertical axis is from 0 to 70 with every 10 points labeled.

5 **EXAMPLE** Use the scatter plot in your answer for Additional Example 4 to answer the following question: Is there a positive correlation, negative correlation, or no correlation between the number of hours worked and the amount earned? Explain.

As the number of hours worked increases, the earnings increase. There is a positive correlation between hours worked and earnings.