

Lesson 7-5

Reinforce Understanding

Represent Rational Numbers on the Coordinate Plane

I can plot and identify points on the coordinate plane using ordered pairs.

Worked model

Plot the point $(-3.5, 2.5)$ on a coordinate plane and name the quadrant it lands in.

1. Start at the origin, the point where the two axes cross.
2. The x-coordinate is -3.5 , so move left three and a half units along the x-axis.
3. The y-coordinate is 2.5 , so move up two and a half units from there.
4. Left and up together land the point in the upper left section. Label it.

Answer: The point $(-3.5, 2.5)$ sits in Quadrant II — left of the y-axis and above the x-axis.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. A point is at $(6, 2)$. What does the 6 tell you?

Circle the letter of the best answer. Show how you know.

- A. Move 6 units to the right
- B. Move 6 units up
- C. Move 6 units to the left
- D. The point is in Quadrant 6

Show your work

2. Put these steps in order for plotting the point $(4, 5)$.

Write the name of the correct group on each line.

Groups:

- _____ Start at the origin $(0, 0)$
- _____ Move 4 units to the right along the x-axis
- _____ Move 5 units up from that spot
- _____ Place a dot at the point $(4, 5)$