

Lesson 7-5 • Group 2

Reinforce Understanding

7.5 Small Group • Group 2

I can plot and identify points on the coordinate plane using ordered pairs, explain what each part stands for, and build one for a situation I have not seen before.

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. Plot these points to reveal a hidden shape: $(1, 1)$, $(1, 5)$, $(6, 5)$, $(6, 1)$

Plot and label each point on the grid.

Show your thinking

2. Match each point to its quadrant or axis.

Write the letter of the matching item on each line.

1. _____ $(3, 2)$
2. _____ $(-4, 5)$
3. _____ $(-2, -6)$
4. _____ $(7, -1)$
5. _____ $(0, 3)$
6. _____ $(5, 0)$

- A Quadrant I
- B Quadrant II
- C Quadrant III
- D Quadrant IV
- E y-axis
- F x-axis