

Plotting Detectives Answer Key

1. Incorrect. Plot at (4, 2). The coordinates were reversed.
2. Correct.
3. Incorrect. Plot at (2, -4). The y-coordinate should be negative.
4. Correct.
5. Incorrect. Plot at (0, 6). The point belongs on the y-axis.
6. Incorrect. Plot at (-4, 3). The x-coordinate should be negative.
7. Correct.
8. Incorrect. Plot at (-2, -6). The y-coordinate should be negative.

Teacher's Guide

- Quick implementation: Remind students that the x-coordinate tells horizontal movement and the y-coordinate tells vertical movement.
- Quick implementation: Encourage students to compare both coordinates before deciding whether a plot is correct.
- Differentiation: Have students circle negative signs and zeros before checking each student's work.
- Differentiation: Provide a small coordinate plane for students who benefit from plotting both locations to compare them.
- Engagement: Present each item as a case file and award one "detective point" for correctly identifying the mistake and one for correcting it.
- Extension: Have students name the quadrant or axis of each correct location.
- Extension: Ask students to create one incorrect plot and trade it with a partner to diagnose the error.