LESSON MAKER PRO

Coordinate Clues

Use the signs in an ordered pair to find each point's location.

GRADE 6 · 6.MG.3.b

6.MG.3.b "Identify and describe the location (quadrant or the axis) of a point given as an ordered pair. Ordered pairs will be limited to coordinates expressed as integers."

NAME _____ DATE _____

READ THE SIGNS

Read an ordered pair as (x, y): x tells left or right, and y tells up or down. Quadrant I has (+, +), Quadrant II has (-, +), Quadrant III has (-, -), and Quadrant IV has (+, -). If x or y is 0, the point is on an axis instead of in a quadrant.

WORKED EXAMPLE

Identify the location of the point (-8, 5).

1. Read x = -8 and y = 5.
2. The x-coordinate is negative.
3. The y-coordinate is positive.
4. A point with (-, +) is in Quadrant II.

Answer: Quadrant II

PRACTICE 6 problems

1 Identify the location of (3, -7).

ANSWER _____

2 Identify the location of (-6, 2).

ANSWER _____

3 Identify the location of (-4, -9).

ANSWER _____

4 Identify the location of (7, 6).

ANSWER _____

5 Identify the location of (0, -3).

ANSWER _____

6 Identify the location of (-2, 0).

ANSWER _____

APPLY IT Show your work

1 In a coding game, Kai's robot is at (-7, 4). Which quadrant contains the robot?

WORK SPACE

ANSWER _____

2 A skate park designer marks a ramp at (0, 9) on a coordinate plan. Is the ramp in a quadrant or on an axis? Name the location.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Mia says that (-9, 0) is in Quadrant II because its x-coordinate is negative. Is Mia correct? Explain your reasoning.

WORK SPACE AND ANSWER

ANSWER KEY

Coordinate Clues

GRADE 6 · 6.MG.3.b

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Identify the location of (3, -7).	**Quadrant IV**
2	Identify the location of (-6, 2).	**Quadrant II**
3	Identify the location of (-4, -9).	**Quadrant III**
4	Identify the location of (7, 6).	**Quadrant I**
5	Identify the location of (0, -3).	**y-axis**
6	Identify the location of (-2, 0).	**x-axis**

PART 2 · APPLY IT

1. **Quadrant II** The x-coordinate is negative and the y-coordinate is positive. A point with (-, +) is in Quadrant II.
2. **y-axis** The x-coordinate is 0. Any point with x = 0 is on the y-axis.

CHALLENGE

Mia is not correct. The point (-9, 0) is on the x-axis because its y-coordinate is 0, so it is not in any quadrant.

Accept quadrant names written with Roman numerals or numbers, such as Quadrant 2 for Quadrant II. Accept “the y axis” and “the x axis” for the axis answers.