LESSON MAKER PRO

Coordinate Zone Quest

Use ordered pairs 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 _____

FIND THE LOCATION

Read the x-coordinate first, then the y-coordinate. Points with two nonzero coordinates are in a quadrant: (+,+) is Quadrant I, (-,+) is Quadrant II, (-,-) is Quadrant III, and (+,-) is Quadrant IV. If x = 0, the point is on the y-axis. If y = 0, the point is on the x-axis.

WORKED EXAMPLE

Identify the location of (8, -7).

1. The x-coordinate, 8, is positive.
2. The y-coordinate, -7, is negative.
3. A point with (+, -) is in Quadrant IV.

Answer: Quadrant IV

PRACTICE 6 problems

1 Identify the location of (-6, 5).

ANSWER _____

2 Identify the location of (0, -8).

ANSWER _____

3 Identify the location of (7, 3).

ANSWER _____

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

ANSWER _____

5 Identify the location of (11, 0).

ANSWER _____

6 Identify the location of (2, -10).

ANSWER _____

APPLY IT Show your work

1 In a video game, a treasure chest is at (6, -4) on the map. What quadrant contains the treasure chest?

WORK SPACE

ANSWER _____

2 A skate park planner marks a new ramp at (-5, 7) on a coordinate map. What quadrant contains the ramp?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Mina says that (-3, 0) is in Quadrant II because its x-coordinate is negative. Is Mina correct? Explain your reasoning.

_____

_____

ANSWER KEY

Coordinate Zone Quest

GRADE 6 · 6.MG.3.b

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Identify the location of (-6, 5).	**Quadrant II**
2	Identify the location of (0, -8).	**y-axis**
3	Identify the location of (7, 3).	**Quadrant I**
4	Identify the location of (-4, -9).	**Quadrant III**
5	Identify the location of (11, 0).	**x-axis**
6	Identify the location of (2, -10).	**Quadrant IV**

PART 2 · APPLY IT

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

CHALLENGE

No. Mina is not correct because the y-coordinate is 0, so the point is on the x-axis, not in a quadrant.

Accept "on the x-axis" or "x-axis," and accept "on the y-axis" or "y-axis." A point on an axis is not in any quadrant.