

Coordinate Quest

Read, graph, and explain points in the first quadrant.

GRADE 5 • NY-5.G.2

NY-5.G.2 "Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation."

NAME _____

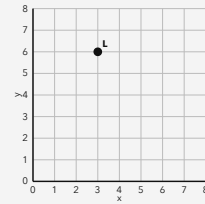
DATE _____

READ ORDERED PAIRS

An ordered pair is written (x, y) . Start at the origin, move x units right, then move y units up.

WORKED EXAMPLE

Point L is shown on the game map.
What are its coordinates?



1. Start at the origin.
2. Move 3 units right.
3. Move 6 units up.
4. Write x first, then y .

Answer: (3,6)

PRACTICE 4 problems

- 1** A point is 5 units right and 1 unit up from the origin. Write its coordinates.

ANSWER _____

- 2** Write the coordinates to graph a point 8 units right and 2 units up from the origin.

ANSWER _____

- 3** A supply box is at $(4,7)$ on a shelter map. What does the 7 tell?

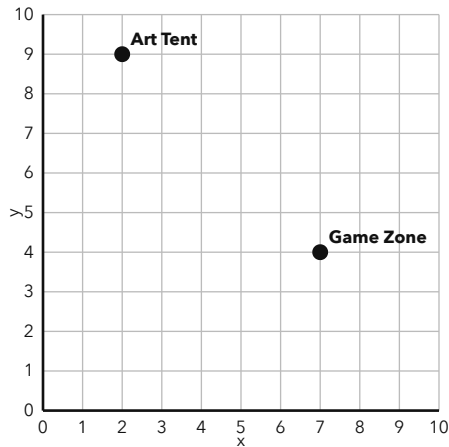
ANSWER _____

- 4** Nia says $(2,8)$ and $(8,2)$ name the same location. Is she correct? Explain.

ANSWER _____

APPLY IT Show your work

- 1** The festival map shows the Art Tent and Game Zone. Write each location as an ordered pair.



ANSWER _____

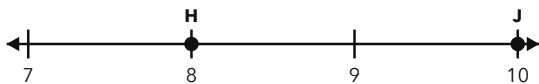
- 2** A coding robot starts at (1,2). It moves 4 units right and 5 units up. What is its new location? What do its coordinates tell?

WORK SPACE

ANSWER _____

CHALLENGE One step up

The number line shows the x-coordinates of drones H and J. Drone H has y-coordinate 4. Drone J has y-coordinate 7. Write both coordinates. Which drone is farther right? Explain.



WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A point is 5 units right and 1 unit up from the origin. Write its coordinates.	(5,1)
2	Write the coordinates to graph a point 8 units right and 2 units up from the origin.	(8,2)
3	A supply box is at (4,7) on a shelter map. What does the 7 tell?	The box is 7 units up from the origin.
4	Nia says (2,8) and (8,2) name the same location. Is she correct? Explain.	No. The x- and y-coordinates are switched, so the points are different locations.

PART 2 • APPLY IT

1. **Art Tent: (2,9); Game Zone: (7,4)** Read right first for x, then up for y for each labeled point.
2. **(5,7). The robot is 5 units right and 7 units up from the origin.** Add 4 to the x-coordinate and 5 to the y-coordinate.

CHALLENGE

H is (8,4). J is (10,7). J is farther right because 10 is greater than 8.

Accept ordered pairs with or without a space after the comma. For explanations, accept equivalent statements that correctly identify x as right and y as up.