LESSON MAKER PRO

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."

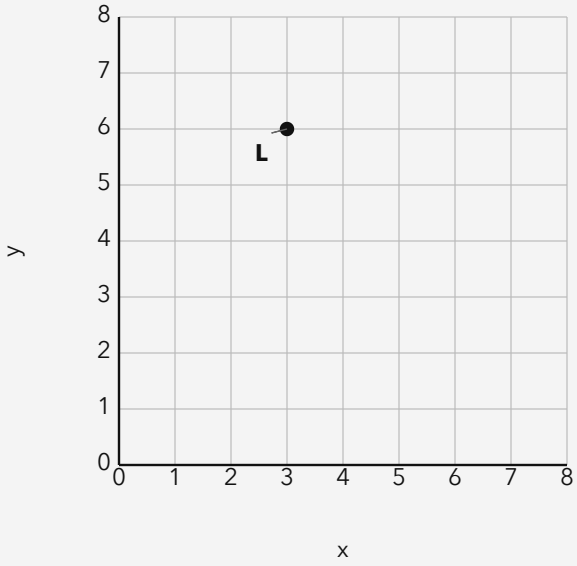
NAME _____ DATE _____

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 _____

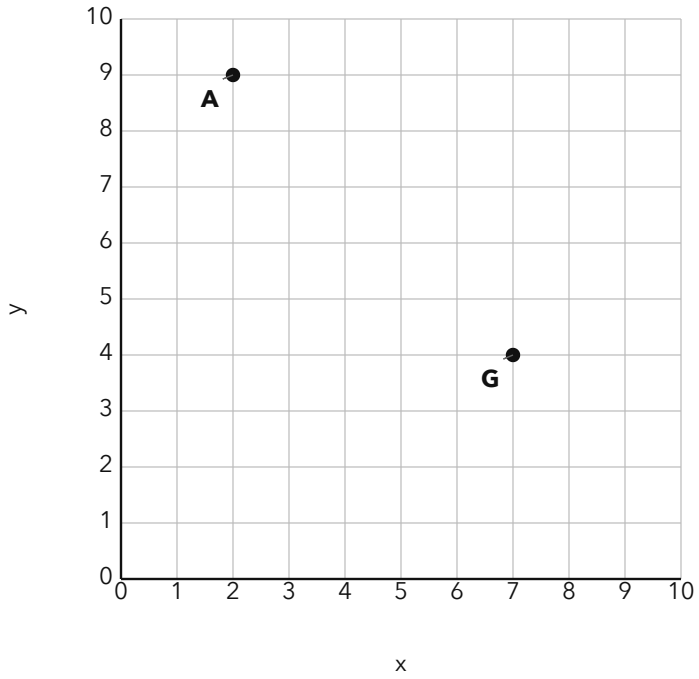
4 Nia says (2,8) and (8,2) name the same location. Is she correct? Explain.

ANSWER _____

_____

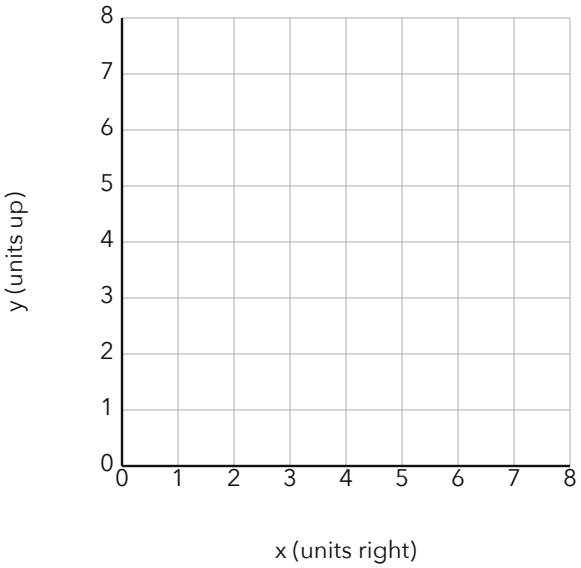
APPLY IT Show your work

1 The festival map labels the Art Tent A and the Game Zone G. Write each location as an ordered pair.



ANSWER _____

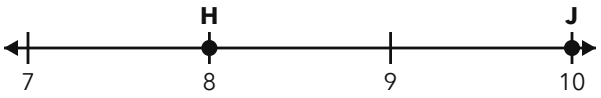
2 A coding robot starts at (1,2), moves 4 units right, then moves 5 units up. On the blank map, plot and label S at the start and E at the new location. Draw its two-part route. Write E as an ordered pair and explain what its coordinates tell about its location.



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

ANSWER KEY # Coordinate Quest

GRADE 5 · NY-5.G.2

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.** Check the actual plotted S(1,2), E(5,7), and route from (1,2) to (5,2) to (5,7). Add 4 to x and 5 to y. E is 5 units right and 7 units up from the origin.

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. For Apply 2, require the learner to plot both labeled points and draw the right-then-up route on the supplied map; coordinate calculation alone is incomplete.

Apply 2: S(1,2), E(5,7); right 4, then up 5.

