LESSON MAKER PRO

Coordinate Quest

Read and write ordered pairs on axes.

GRADE 5 · NY-5.G.1

NY-5.G.1 "Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered..."

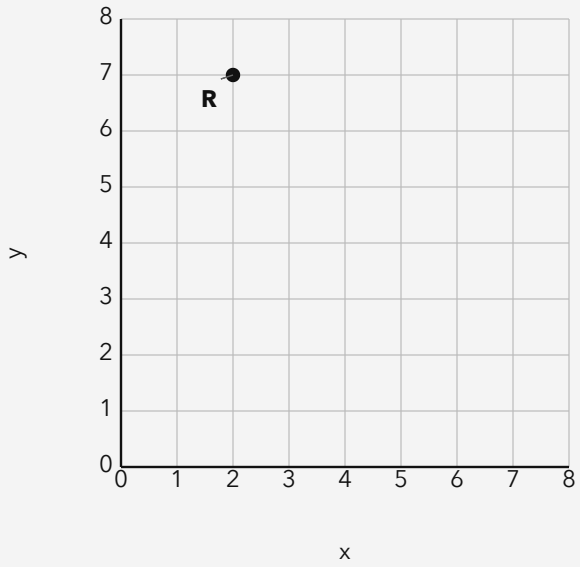
NAME _____ DATE _____

FOLLOW THE AXES

The origin is where the x-axis and y-axis meet at 0. In an ordered pair, read the x-coordinate first by moving across, then read the y-coordinate by moving up.

WORKED EXAMPLE

What is the ordered pair for point R?



1. Start at the origin, (0, 0).
2. Move 2 units right on the x-axis.
3. Move7units upward, parallel to the y-axis, from(2,0).
4. Write x first, then y.

Answer: (2, 7)

PRACTICE 4 problems

1 Point A is at (5, 3). What does the 5 tell you to do?

ANSWER _____

2 Start at the origin. Move 4 units right and 6 units up. Write the ordered pair.

ANSWER _____

3 Point B is at (0, 8). How far right is point B from the origin?

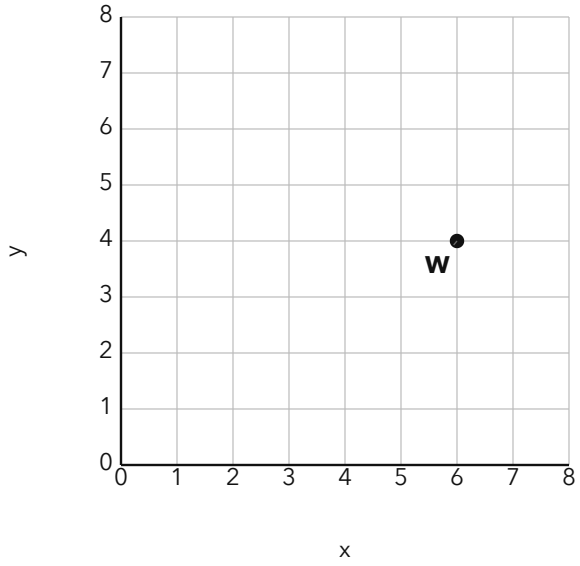
ANSWER _____

4 Point J is at (3, 5). Point K is at (5, 3). Are the points in the same location? Explain.

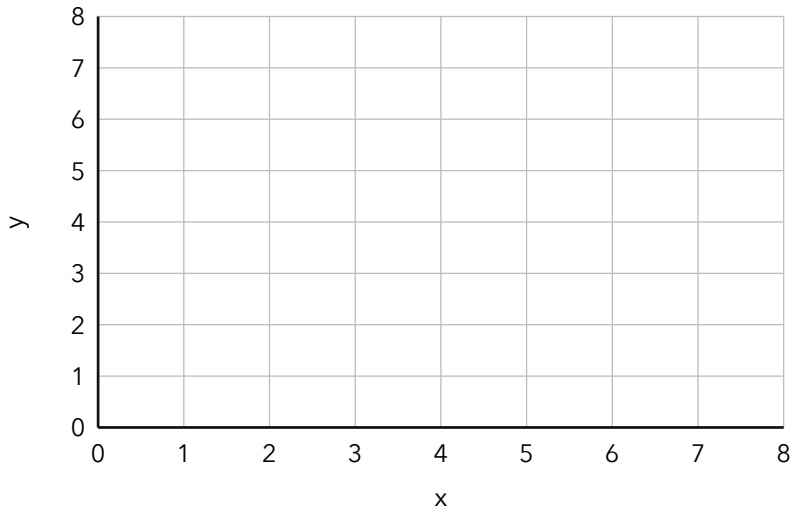
ANSWER _____

APPLY IT Show your work

1 On the school garden plan, W marks the water station. What are the coordinates of W?



2 Plot checkpoint M=(7,5) on the blank coordinate plane. Mark the origin and draw an x-then-y route to M. Explain what each coordinate measures.



CHALLENGE One step up

Mia says a point that is 2 units right and 5 units up has coordinates (5, 2). Is Mia correct? Explain, then write the correct ordered pair.

ANSWER KEY

Coordinate Quest

GRADE 5 · NY-5.G.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Point A is at (5, 3). What does the 5 tell you to do?	**Move 5 units right on the x-axis.**
2	Start at the origin. Move 4 units right and 6 units up. Write the ordered pair.	**(4, 6)**
3	Point B is at (0, 8). How far right is point B from the origin?	**0 units**
4	Point J is at (3, 5). Point K is at (5, 3). Are the points in the same location? Explain.	**No. The coordinates are in a different order, so the points are in different locations.**

PART 2 · APPLY IT

1. **(6, 4)** Read6units across, then4units up parallel to the y-axis.
2. **M at(7,5); origin(0,0); route(0,0)→(7,0)→(7,5). Seven units right, then five units up parallel to the y-axis.** Require a plotted point and route, not just writing the ordered pair.

CHALLENGE

No. She put the coordinates in the wrong order. The correct ordered pair is (2, 5).

Accept ordered pairs with or without a space after the comma. For explanations, accept wording that clearly states that the x-coordinate is read first and the y-coordinate is read second.