

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 _____

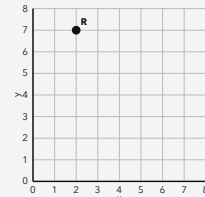
DATE _____

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. Move 7 units up on the y-axis.
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?

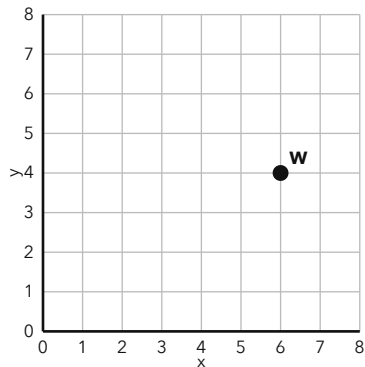
ANSWER _____

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

ANSWER _____

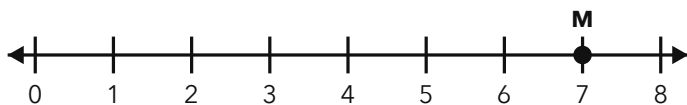
APPLY IT Show your work

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



ANSWER _____

- 2** In a video game, checkpoint M is directly above the tick marked M. It is 5 units above the x-axis. Write its coordinates.



ANSWER _____

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.

WORK SPACE AND ANSWER

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)** Read 6 across on the x-axis, then 4 up on the y-axis.
2. **(7, 5)** The tick for M gives an x-coordinate of 7. The height gives a y-coordinate of 5.

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.