LESSON MAKER PRO

Coordinate Quest

Read ordered pairs on a coordinate plane.

GRADE 5 · 5.G.A.1

CCSS.Math.Content.5.G.A.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..."

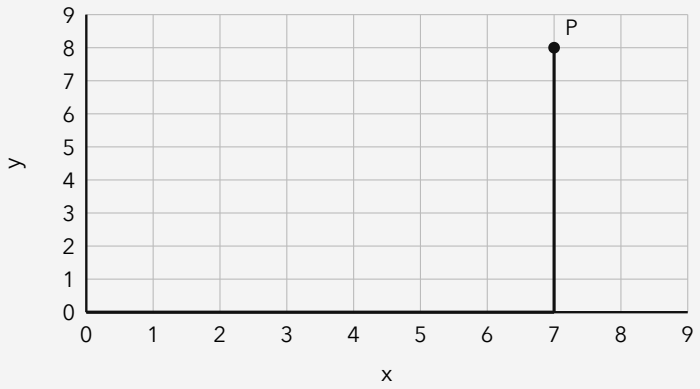
NAME _____ DATE _____

AXES AND ORDERED PAIRS

The x-axis and y-axis cross at the origin, (0, 0). In an ordered pair, the first number tells the x-coordinate, and the second number tells the y-coordinate. Move along the x-axis first, then move parallel to the y-axis.

WORKED EXAMPLE

A point is 7 units right and 8 units up from the origin. Write its coordinates.



1. Start at the origin, (0, 0).
2. Move 7 units right on the x-axis.
3. From (7, 0), move 8 units up parallel to the y-axis.
4. Write x first and y second.

Answer: (7, 8)

PRACTICE 4 problems

1 For point (5, 2), name the axis for the first number. Then tell how far to move from the origin on that axis.

ANSWER _____

2 Start at the origin. Move 1 unit right, then 6 units up. Write the ordered pair.

ANSWER _____

3 A point has an x-coordinate of 0 and a y-coordinate of 5. Write its ordered pair.

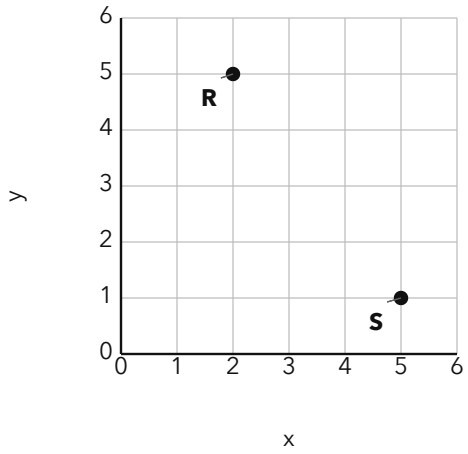
ANSWER _____

4 Which ordered pair means 4 units right and 1 unit up from the origin?

ANSWER _____

APPLY IT Show your work

1 A video game grid shows a robot station, R, and a supply station, S. Write the coordinates of R and S.



ANSWER

2 Maya programs a character to move 6 squares right from the origin, then 2 squares up. Write the character's coordinates and name the first axis used.

CHALLENGE One step up

Kai says that moving 2 units right and 5 units up gives the point (5, 2). Is Kai correct? Explain.

ANSWER KEY

Coordinate Quest

GRADE 5 · 5.G.A.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	For point (5, 2), name the axis for the first number. Then tell how far to move from the origin on that axis.	**x-axis; 5 units**
2	Start at the origin. Move 1 unit right, then 6 units up. Write the ordered pair.	**(1, 6)**
3	A point has an x-coordinate of 0 and a y-coordinate of 5. Write its ordered pair.	**(0, 5)**
4	Which ordered pair means 4 units right and 1 unit up from the origin?	**(4, 1)**

PART 2 · APPLY IT

1. **R = (2, 5); S = (5, 1)** Read the x-coordinate first and the y-coordinate second for each labeled point.
2. **(6, 2); x-axis** Moving right gives the x-coordinate of 6. Moving up gives the y-coordinate of 2.

CHALLENGE

No. The first number is the x-coordinate, so 2 units right and 5 units up is (2, 5).

Accept ordered pairs with or without a space after the comma. For the challenge, accept any explanation that states that x is written first and y is written second.