LESSON MAKER PRO

Find the Spot

Read and plot points in the first quadrant

GRADE 5 · 5.GR.D.6

5.GR.D.6 "Define the coordinate system as a pair of perpendicular lines called axes that intersect at the origin. Use understanding that the coordinate values represent the distance from the origin on the x-axis and y-axis to graph and name..."

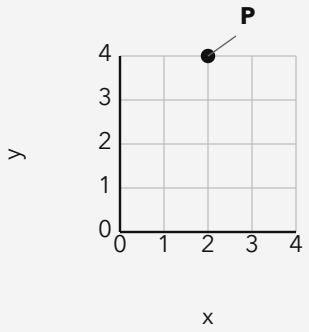
NAME _____ DATE _____

HOW COORDINATES WORK

The x-axis and y-axis are perpendicular lines that meet at the origin, (0, 0). In the first quadrant, the first coordinate tells how many units to move right, and the second tells how many units to move up.

WORKED EXAMPLE

What is the ordered pair for P?



1. Start at the origin.
2. Count 2 units right to find the first coordinate.
3. Count 4 units up to find the second coordinate.

Answer: (2, 4)

PRACTICE 4 problems

1 Move 5 units right and 1 unit up from the origin. Write the ordered pair.

ANSWER _____

2 Point R is at (1, 6). How far right and how far up is R from the origin?

ANSWER _____

3 A point has an x-coordinate of 7 and a y-coordinate of 3. Write its ordered pair.

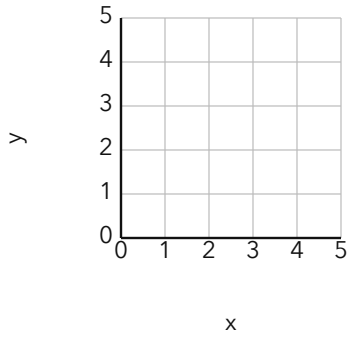
ANSWER _____

4 Which point is farther right, A (6, 1) or B (5, 7)? How do you know?

ANSWER _____

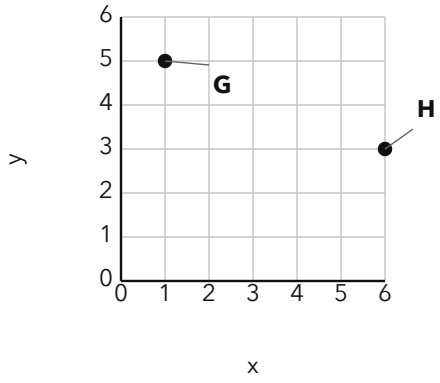
APPLY IT Show your work

1 At a school fair, the entrance is at the origin. The prize booth is 5 spaces right and 3 spaces up. Plot P for the booth and write its ordered pair.



ANSWER _____

2 On this arcade map, G and H are game booths. Write both ordered pairs. Which booth is farther from the y-axis?



ANSWER _____

CHALLENGE One step up

A point in the first quadrant is 8 units from the y-axis and 5 units from the x-axis. What is its ordered pair? Explain.

WORK SPACE AND ANSWER

ANSWER KEY

Find the Spot

GRADE 5 · 5.GR.D.6

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Move 5 units right and 1 unit up from the origin. Write the ordered pair.	**(5, 1)**
2	Point R is at (1, 6). How far right and how far up is R from the origin?	**1 unit right and 6 units up**
3	A point has an x-coordinate of 7 and a y-coordinate of 3. Write its ordered pair.	**(7, 3)**
4	Which point is farther right, A (6, 1) or B (5, 7)? How do you know?	**A. Its x-coordinate, 6, is greater than B's x-coordinate, 5.**

PART 2 · APPLY IT

1. **P at (5, 3)** Move 5 units right and 3 units up from the origin. The booth is at (5, 3).
2. **G is (1, 5). H is (6, 3). H is farther from the y-axis.** Read right, then up, to name each point. H is 6 units from the y-axis, while G is 1 unit away.

CHALLENGE

(8, 5). Its distance from the y-axis gives the first coordinate, and its distance from the x-axis gives the second coordinate.

For the plotted point, accept a clear mark at (5, 3) with or without the label P. Accept any explanation that correctly links distance from the y-axis to the first coordinate.