LESSON MAKER PRO

Coordinate Quest

Read, write, and explain points in the first quadrant.

GRADE 5 · 5.PAR.6.2

5.PAR.6.2 "Represent problems by plotting ordered pairs and explain coordinate values of points in the first quadrant of the coordinate plane."

NAME _____ DATE _____

FIND A POINT

An ordered pair tells a point's place in the first quadrant. Read the first number to move right from 0, then read the second number to move up from 0. Write the numbers in parentheses with a comma between them.

WORKED EXAMPLE

The number line shows the first coordinate of point T. The second coordinate is 8. Write the ordered pair for T.



1. Find T on the number line: 9.
2. The second coordinate is 8.
3. Write the first coordinate first: (9, 8).

Answer: (9, 8)

PRACTICE 6 problems

1 Point A is 2 units right and 5 units up from 0. Write its ordered pair.

ANSWER _____

2 Point B is at (6, 1). What is its horizontal coordinate? What is its vertical coordinate?

ANSWER _____

3 Point C is at (3, 6). Describe how to move from 0 to reach point C.

ANSWER _____

4 The number line shows the first coordinate of point R. The second coordinate is 2. Write the ordered pair for R.



ANSWER _____

5 Point D is at (1, 3). Write an ordered pair for a point that has the same vertical coordinate as D and a horizontal coordinate of 6.

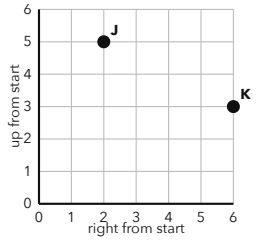
ANSWER _____

6 Point K is at (5, 1). Point L is at (5, 6). Which coordinate stays the same? How do the points line up?

ANSWER _____

APPLY IT Show your work

1 In an arcade game, the start is at 0. The grid shows Mia's prize tokens. Write the ordered pair for token J and token K. Then explain what each number in J's ordered pair tells.



ANSWER _____

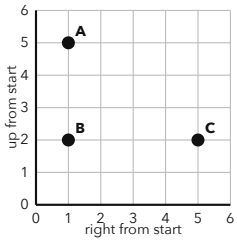
2 At a school festival, a snack stand is 3 units right and 2 units up from the entrance. A music stage is 1 unit right and 6 units up from the entrance. Write an ordered pair for each location. Explain why the snack stand's first coordinate is greater than the music stage's first coordinate.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Points A, B, and C are plotted. Plot point D so that A, B, C, and D are the four corners of a rectangle. Write D's ordered pair and explain how you chose each coordinate.



WORK SPACE AND ANSWER

ANSWER KEY

Coordinate Quest

GRADE 5 · 5.PAR.6.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Point A is 2 units right and 5 units up from 0. Write its ordered pair.	**(2, 5)**
2	Point B is at (6, 1). What is its horizontal coordinate? What is its vertical coordinate?	**Horizontal coordinate: 6; vertical coordinate: 1**
3	Point C is at (3, 6). Describe how to move from 0 to reach point C.	**Move 3 units right and 6 units up.**
4	The number line shows the first coordinate of point R. The second coordinate is 2. Write the ordered pair for R.	**(5, 2)**
5	Point D is at (1, 3). Write an ordered pair for a point that has the same vertical coordinate as D and a horizontal coordinate of 6.	**(6, 3)**
6	Point K is at (5, 1). Point L is at (5, 6). Which coordinate stays the same? How do the points line up?	**The horizontal coordinate, 5, stays the same. The points line up vertically.**

PART 2 · APPLY IT

1. **J = (2, 5); K = (6, 3). For J, 2 tells how far right to move, and 5 tells how far up to move.** Read the horizontal position first and the vertical position second for each token. Use J's two values to describe the right and up movements.
2. **Snack stand: (3, 2); music stage: (1, 6). The snack stand is farther right of the entrance than the music stage.** Use right movement as the first coordinate and up movement as the second coordinate. Compare 3 and 1 to determine which location is farther right.

CHALLENGE

D = (5, 5). Its first coordinate matches C because D is directly above C. Its second coordinate matches A because D is directly right of A.

Accept coordinate pairs only when the horizontal value is written first and the vertical value second. Accept equivalent wording such as “across” for right and “up” for vertical movement.