

Coordinate Quest

Plot points and read what their coordinates mean.

GRADE 5 • MA.5.GR.4.2

MA.5.GR.4.2 "Represent mathematical and real-world problems by plotting points in the first quadrant of the coordinate plane and interpret coordinate values of points in the context of the situation."

NAME _____

DATE _____

READ AND PLOT POINTS

An ordered pair tells where to place a point. Move right for the first number, then move up for the second number. In the first quadrant, both coordinate values are greater than zero.

WORKED EXAMPLE

Plot point R at (1,9).

1. Start at the origin.
2. Move 1 unit right.
3. Move 9 units up.
4. Place and label point R.

Answer: R is plotted at (1,9).

PRACTICE 6 problems

1 Plot point A at (3,6).

ANSWER _____

2 Point B is 7 units right and 4 units up from the origin. Write its ordered pair.

ANSWER _____

3 Plot point C at (5,8).

ANSWER _____

4 Point D is at (6,3). How many units right of the origin is D?

ANSWER _____

5 Point E is 4 units right and 7 units up from the origin. Write its ordered pair.

ANSWER _____

6 Point F is at (8,5). Describe its location from the origin.

ANSWER _____

APPLY IT Show your work

- 1** A school festival map uses the origin as the entrance. The snack stand is at $(7,3)$, and the music tent is at $(4,8)$. Plot both locations. Which location is farther right, and how many units farther right is it?

WORK SPACE

ANSWER _____

- 2** In a video game, a treasure chest is at $(6,5)$, and the player is at $(3,5)$. Plot both points. What do the chest's coordinates tell you, and how many horizontal units are between the player and the chest?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Plot points G $(3,3)$, H $(8,3)$, J $(8,8)$, and K $(3,8)$. Connect the points in order. What shape do they make? Explain how the coordinates show the side length.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Plot point A at (3,6).	A is plotted at (3,6).
2	Point B is 7 units right and 4 units up from the origin. Write its ordered pair.	(7,4)
3	Plot point C at (5,8).	C is plotted at (5,8).
4	Point D is at (6,3). How many units right of the origin is D?	6 units
5	Point E is 4 units right and 7 units up from the origin. Write its ordered pair.	(4,7)
6	Point F is at (8,5). Describe its location from the origin.	8 units right and 5 units up

PART 2 • APPLY IT

1. **The snack stand is farther right by 3 units.** The first coordinate shows how far right each location is. The snack stand has a first coordinate of 7, and the music tent has a first coordinate of 4, so $7 - 4 = 3$.
2. **The chest is 6 units right and 5 units up from the origin. There are 3 horizontal units between the player and the chest.** The chest's first coordinate tells how far right it is, and its second coordinate tells how far up it is. Both points have a second coordinate of 5, so subtract the first coordinates: $6 - 3 = 3$.

CHALLENGE

The points make a square. Each horizontal and vertical side is 5 units long, because $8 - 3 = 5$.

Accept correctly plotted and labeled points. Accept equivalent location descriptions that clearly state the horizontal movement first and the vertical movement second.