

Coordinate Quest

Read, plot, and use ordered pairs.

GRADE 5 • MA.5.GR.4

MA.5.GR.4 "Plot points and represent problems on the coordinate plane"

NAME _____

DATE _____

ORDERED PAIR STEPS

An ordered pair has two numbers written in parentheses. The first number tells how far to move right from the origin, and the second number tells how far to move up.

WORKED EXAMPLE

Plot point M at (9, 7).

1. Start at the origin, (0, 0).
2. Move 9 units right.
3. Move 7 units up.
4. Mark and label the point M.

Answer: M is at (9, 7).

PRACTICE 6 problems

1 Plot point A at (1, 6).

ANSWER _____

2 A point is 4 units right and 8 units up from the origin. Write its ordered pair.

ANSWER _____

3 Plot point C at (5, 2). What is its y-coordinate?

ANSWER _____

4 Write the ordered pair for point D. It is 6 units right and 1 unit up from the origin.

ANSWER _____

5 Plot point E at (2, 5). Is its x-coordinate 2 or 5?

ANSWER _____

6 Plot point F at (8, 4) and point G at (6, 4). Which point is farther right?

ANSWER _____

APPLY IT Show your work

- 1** A player earns 2 coins for each mission completed. On a coordinate plane, x is the number of missions and y is the number of coins. Plot the points for 1, 2, and 4 missions. Which ordered pair represents 4 missions?

WORK SPACE

ANSWER _____

- 2** A robotics team uses 2 batteries for each robot it tests. On a coordinate plane, x is robots tested and y is batteries used. Plot points for 1, 3, and 5 robots. What is the ordered pair for 5 robots?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A music app coordinate plane uses x as songs downloaded and y as reward points. The plotted points are (1, 6), (2, 8), and (4, 12). Which point should be plotted for 5 songs? Explain how you know.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Plot point A at (1, 6).	A at (1, 6)
2	A point is 4 units right and 8 units up from the origin. Write its ordered pair.	(4, 8)
3	Plot point C at (5, 2). What is its y-coordinate?	2
4	Write the ordered pair for point D. It is 6 units right and 1 unit up from the origin.	(6, 1)
5	Plot point E at (2, 5). Is its x-coordinate 2 or 5?	2
6	Plot point F at (8, 4) and point G at (6, 4). Which point is farther right?	F

PART 2 • APPLY IT

1. **(4, 8)** Multiply the number of missions by 2 to find the coins. Four missions earn 8 coins, so the point is (4, 8).
2. **(5, 10)** Multiply the number of robots by 2 to find batteries. Five robots use 10 batteries, so plot (5, 10).

CHALLENGE

(5, 14). Each added song adds 2 reward points, so 5 songs earn 14 points.

For plotting items, accept correctly placed and labeled points. Spaces inside ordered pairs do not matter.