

# Coordinate Quest

*Read and write 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 \_\_\_\_\_

## HOW COORDINATES WORK

A coordinate plane has two perpendicular axes that meet at the origin. In an ordered pair, the first number is the x-coordinate, so move right or left first. The second number is the y-coordinate, so move up or down next.

## WORKED EXAMPLE

Locate point R with coordinates (4, 6).

1. Start at the origin.
2. Move 4 units right on the x-axis.
3. Move 6 units up on the y-axis.

**Answer: Point R is 4 units right and 6 units up from the origin.**

## PRACTICE 6 problems

- 1** Point A has an x-coordinate of 3 and a y-coordinate of 9. Write its ordered pair.

**ANSWER** \_\_\_\_\_

- 2** Point B is at (7, 1). How should you travel from the origin to reach B?

**ANSWER** \_\_\_\_\_

- 3** From the origin, move 2 units right and 5 units up. Write the ordered pair for the point.

**ANSWER** \_\_\_\_\_

- 4** Point D is at (9, 3). Which coordinate tells how far to move right or left?

**ANSWER** \_\_\_\_\_

- 5** Jada says that (1, 8) means move 8 units right and 1 unit up. Is Jada correct? Write the correct moves.

**ANSWER** \_\_\_\_\_

- 6** Point M has an x-coordinate of 5 and a y-coordinate of 7. Write its ordered pair.

**ANSWER** \_\_\_\_\_

## APPLY IT Show your work

- 1** A video game map uses coordinates. The home base is at the origin. A prize chest is 10 units right and 2 units up from home base. What are the coordinates of the prize chest?

WORK SPACE

ANSWER \_\_\_\_\_

- 2** On a school garden map, the sunflower sign is at (7, 8). How should you travel from the origin to reach the sign?

WORK SPACE

ANSWER \_\_\_\_\_

## CHALLENGE One step up

### CHALLENGE

A treasure is 8 units right and 3 units up from the origin. Mina writes its coordinates as (3, 8). What coordinates should Mina write? Explain why.

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## PART 1 • PRACTICE

| # | PROBLEM                                                                                                 | ANSWER                                       |
|---|---------------------------------------------------------------------------------------------------------|----------------------------------------------|
| 1 | Point A has an x-coordinate of 3 and a y-coordinate of 9. Write its ordered pair.                       | <b>(3, 9)</b>                                |
| 2 | Point B is at (7, 1). How should you travel from the origin to reach B?                                 | <b>Move 7 units right, then 1 unit up.</b>   |
| 3 | From the origin, move 2 units right and 5 units up. Write the ordered pair for the point.               | <b>(2, 5)</b>                                |
| 4 | Point D is at (9, 3). Which coordinate tells how far to move right or left?                             | <b>The first coordinate, 9.</b>              |
| 5 | Jada says that (1, 8) means move 8 units right and 1 unit up. Is Jada correct? Write the correct moves. | <b>No. Move 1 unit right and 8 units up.</b> |
| 6 | Point M has an x-coordinate of 5 and a y-coordinate of 7. Write its ordered pair.                       | <b>(5, 7)</b>                                |

## PART 2 • APPLY IT

1. **(10, 2)** The right-left movement is the x-coordinate, so write 10 first. The up-down movement is the y-coordinate, so write 2 second.
2. **Move 7 units right, then 8 units up.** Read the first coordinate as the horizontal movement. Read the second coordinate as the vertical movement.

## CHALLENGE

**(8, 3). The first coordinate shows the 8 units right, and the second coordinate shows the 3 units up.**

Accept ordered pairs with or without a space after the comma. For travel descriptions, accept equivalent wording that clearly gives the x movement first and the y movement second.