LESSON MAKER PRO

Coordinate Quest

Plot points, then tell what they mean.

GRADE 5 · 5.G.A.2

CCSS.Math.Content.5.G.A.2 "Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation."

NAME _____ DATE _____

READ COORDINATES IN ORDER

In an ordered pair (x, y), x tells how far right from 0 and y tells how far up from 0. Read x first, then y, and use the same order when you plot a point in the first quadrant.

WORKED EXAMPLE

The number line shows point M's x-coordinate. Point M is 8 units up. Write M's ordered pair.



1. Point M is at 9 on the number line.
2. The x-coordinate is 9.
3. The y-coordinate is 8.
4. Write x first and y second: (9, 8).

Answer: (9, 8)

PRACTICE 6 problems

1 Point A is at (3, 6). Write the x-coordinate and the y-coordinate.

ANSWER _____

2 The number line shows point B's x-coordinate. Point B has a y-coordinate of 5. Write point B's ordered pair.



ANSWER _____

3 On a video game screen, x tells tiles right and y tells tiles up. A coin is at (1, 7). What does the 7 tell you?

ANSWER _____

4 Start at (0, 0). Move 6 units right and 2 units up. Write the ordered pair for your location.

ANSWER _____

5 Point C is at (5, 1). Point D is at (2, 4). Which point is higher? Tell how you know.

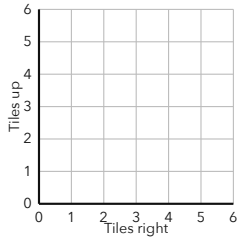
ANSWER _____

6 Point E is at (6, 1), and point F is at (1, 6). Which point is farther right? Tell how you know.

ANSWER _____

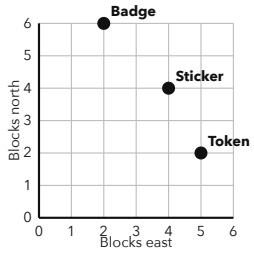
APPLY IT Show your work

1 A coding club robot starts at (0, 0). Plot the red flag at (2, 5), the blue flag at (6, 1), and the green flag at (4, 4). Which flag is farthest right? Write its coordinates.



ANSWER _____

2 At a school scavenger hunt, the grid shows the locations of three prizes. Which prize is highest? How many more blocks north is it than the Token?



ANSWER _____

CHALLENGE One step up

Mina says point (3, 5) means move 5 units right and 3 units up. In exactly two sentences, explain her error and write the correct directions.

WORK SPACE AND ANSWER

ANSWER KEY

Coordinate Quest

GRADE 5 · 5.G.A.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Point A is at (3, 6). Write the x-coordinate and the y-coordinate.	**x = 3; y = 6**
2	The number line shows point B's x-coordinate. Point B has a y-coordinate of 5. Write point B's ordered pair.	**(4, 5)**
3	On a video game screen, x tells tiles right and y tells tiles up. A coin is at (1, 7). What does the 7 tell you?	**The coin is 7 tiles up.**
4	Start at (0, 0). Move 6 units right and 2 units up. Write the ordered pair for your location.	**(6, 2)**
5	Point C is at (5, 1). Point D is at (2, 4). Which point is higher? Tell how you know.	**Point D is higher because its y-coordinate, 4, is greater than 1.**
6	Point E is at (6, 1), and point F is at (1, 6). Which point is farther right? Tell how you know.	**Point E is farther right because its x-coordinate, 6, is greater than 1.**

PART 2 · APPLY IT

1. **The blue flag, (6, 1).** Plot each flag using x for tiles right and y for tiles up. The blue flag has the greatest x-coordinate, 6.
2. **The Badge at (2, 6) is highest. It is 4 blocks north of the Token.** Compare the y-coordinates. The Badge has y = 6 and the Token has y = 2, so 6 - 2 = 4.

CHALLENGE

Mina switched the coordinates. The point (3, 5) is 3 units right and 5 units up.

Accept ordered pairs with or without a space after the comma. Accept equivalent correct wording for explanations that identifies x as horizontal and y as vertical.