LESSON MAKER PRO

Coordinate Quest

Find, read, and plot points in the first quadrant.

GRADE 5 · MA.5.GR.4.1

MA.5.GR.4.1 "Identify the origin and axes in the coordinate system. Plot and label ordered pairs in the first quadrant of the coordinate plane."

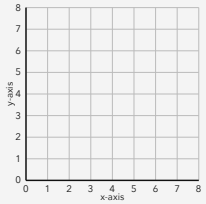
NAME _____ DATE _____

START AT THE ORIGIN

The origin is (0,0). The x-axis goes across, and the y-axis goes up. In an ordered pair, read x first, then y.

WORKED EXAMPLE

Use the grid. Plot and label M at (2,8).



1. Start at the origin, (0,0).
2. Move 2 units right on the x-axis.
3. Move 8 units up on the y-axis.
4. Write M at that point.

Answer: M is at (2,8).

PRACTICE 4 problems

1 Name the origin and the two axes.

ANSWER _____

2 Which point is in the first quadrant? A (0,5), B (4,3), or C (6,0)

ANSWER _____

3 Start at the origin. Move 7 units right and 1 unit up. Write the ordered pair.

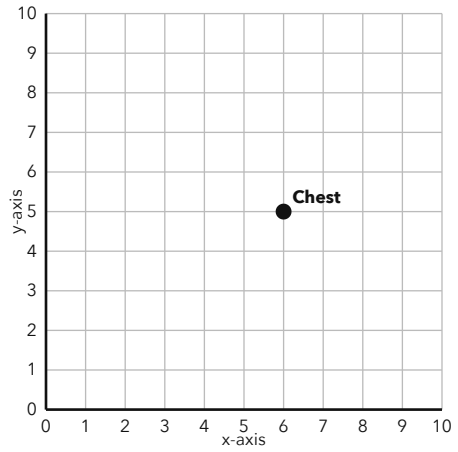
ANSWER _____

4 In the ordered pair (6,3), which number tells how far right to move?

ANSWER _____

APPLY IT Show your work

1 A video game map shows a treasure chest. What ordered pair names the chest's location?



ANSWER _____

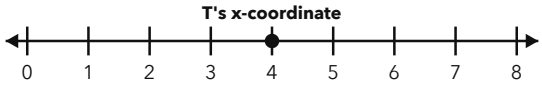
2 In coding club, a robot starts at the origin. It moves 3 units right and 9 units up. What ordered pair shows its location?

WORK SPACE

ANSWER _____

CHALLENGE One step up

The number line shows T's horizontal position. T is also 6 units above the x-axis. Write T's ordered pair. Explain why 4 is written first.



WORK SPACE AND ANSWER

ANSWER KEY

Coordinate Quest

GRADE 5 · MA.5.GR.4.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Name the origin and the two axes.	**Origin: (0,0); axes: x-axis and y-axis**
2	Which point is in the first quadrant? A (0,5), B (4,3), or C (6,0)	**B (4,3)**
3	Start at the origin. Move 7 units right and 1 unit up. Write the ordered pair.	**(7,1)**
4	In the ordered pair (6,3), which number tells how far right to move?	**6**

PART 2 · APPLY IT

1. **(6,5)** Read across first to x = 6. Then read up to y = 5.
2. **(3,9)** The robot moves right first, so 3 is the x-coordinate. Its 9-unit move up is the y-coordinate.

CHALLENGE

T is (4,6). The 4 is first because the x-coordinate, or horizontal position, is written first.

Accept ordered pairs written with parentheses and a comma. Accept equivalent explanations that state x, the horizontal coordinate, is written before y, the vertical coordinate.