Ordered Pairs in All Four Quadrants — Homework

Lesson 7-8 • Standard 6.NOS.7

Name: _____ **Period:** _____ **Date:** _____

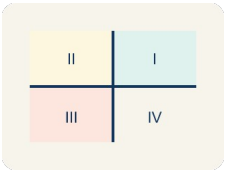
Today's Goals

Content: I can plot ordered pairs in all four quadrants of the coordinate plane.
Language: I can explain my work using the words quadrant, negative coordinate, reflection, and axis.

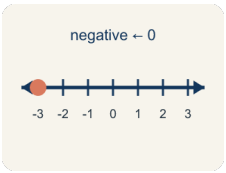
Key Words



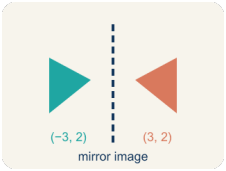
Ordered Pairs in All Four Quadrants (Pares ordenados en los cuatro cuadrantes) — Points written as (x, y) whose positive or negative coordinates place them in one of four quadrants.



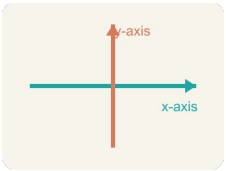
Quadrant (Cuadrante) — One of the four parts of a coordinate grid, numbered I to IV.



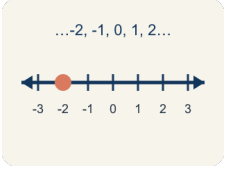
Negative coordinate (Coordenada negativa) — A coordinate less than zero. It means left or below the center point.



Reflection (Reflexión) — A flipped, mirror image across a line.



Axis (Eje) — One of the two number lines that frame a graph: the x-axis runs across, the y-axis runs up and down.



Integer (Número entero) — Whole numbers and their opposites, like -2, -1, 0, 1, 2.

Practice

Show your work. Use the blank space under each problem.

1. In which quadrant is the point (-4, 5)?

A. Quadrant I

B. Quadrant III
C. Quadrant II
D. Quadrant IV

2. A point has a positive x-coordinate and a negative y-coordinate. Which quadrant is it in?

A. Quadrant I
B. Quadrant II
C. Quadrant IV
D. Quadrant III

3. For each ordered pair, write the signs of x and y and name the quadrant (or axis).

Point	x sign	y sign	Quadrant or Axis
(6, -2)			
(-3, -5)			
(0, 7)			
(-1, 8)			
(4, 0)			

4. Match each quadrant to its coordinate sign pattern.

Item	Answer choices
____ Quadrant I	F. x = 0
____ Quadrant II	E. y = 0
____ Quadrant III	D. (+, -)
____ Quadrant IV	C. (-, -)
____ x-axis	B. (-, +)
____ y-axis	A. (+, +)

5. Point A is at (-5, 3). If you move 8 units to the right, what are the new coordinates?

A. (-13, 3)
B. (-5, 11)
C. (-5, -5)
D. (3, 3)

6. Spot the Common Mistake

Step 1 (Problem): Name the quadrant for the point (6, -1).
Step 2 (Student thinking): I'll read the coordinates as (y, x), so I treat this like (-1, 6): the first number -1 is negative (left) and the second number 6 is positive (up).
Step 3 (Student answer): (6, -1) is in Quadrant II.
Which step has the mistake? Explain and fix it:

7. In which quadrant is the point (-3, 5)?

A. Quadrant I
B. Quadrant III
C. Quadrant IV
D. Quadrant II

8. What are the coordinates of a point 4 units right and 2 units down from the origin?

A. (-4, 2)
B. (-2, 4)
C. (2, -4)
D. (4, -2)

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9. Captain Vega spotted four enemy ships. Drag each ship's coordinates into the correct quadrant of the map.

Groups: Quadrant I | Quadrant II | Quadrant III | Quadrant IV

- (3, 2) → _____
- (-4, 1) → _____
- (-2, -5) → _____
- (6, -3) → _____

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10. A sonar ping locates an enemy submarine at (-5, -2). In which quadrant should Captain Vega aim her shot?

A. Quadrant I
B. Quadrant II
C. Quadrant IV
D. Quadrant III
