

Algebra: Plotting Points in the X-Y Plane

N

Practice Worksheet • numberbender.com

Name: _____ Date: _____ Score: _____

DIRECTIONS Identify the quadrant or axis location of each point, and state the coordinates of the described point.

1 Name the quadrant:

(3, 5)

Answer: _____

2 Name the quadrant:

(-2, 4)

Answer: _____

3 Name the quadrant:

(-5, -3)

Answer: _____

4 Name the quadrant:

(6, -1)

Answer: _____

5 Name location:

(0, 4)

Answer: _____

6 Name location:

(-3, 0)

Answer: _____

7 Name the quadrant:

(7, -9)

Answer: _____

8 Name the quadrant:

(-1, -8)

Answer: _____

9 Find the point:

**4 units right,
3 units down from origin**

Answer: _____

10 Find the point:

**5 left, 2 up
from origin**

Answer: _____

Answer Key & Solutions

Algebra: Plotting Points in the X-Y Plane • Numberbender

N

TEACHER NOTES

Q1: (+,+), Q2: (-,+), Q3: (-,-), Q4: (+,-). Points on axes are not in any quadrant. x-axis: $y=0$; y-axis: $x=0$.

1 (3, 5)

= **Quadrant I**

Both x and y positive → Q I

2 (-2, 4)

= **Quadrant II**

x negative, y positive → Q II

3 (-5, -3)

= **Quadrant III**

Both negative → Q III

4 (6, -1)

= **Quadrant IV**

x positive, y negative → Q IV

5 (0, 4)

= **y-axis**

$x=0$ → on the y-axis

6 (-3, 0)

= **x-axis**

$y=0$ → on the x-axis

7 (7, -9)

= **Quadrant IV**

x positive, y negative → Q IV

8 (-1, -8)

= **Quadrant III**

Both negative → Q III

9 4 right, 3 down from origin

= **(4, -3)**

Right = +x, down = -y → (4, -3)

10 5 left, 2 up from origin

= **(-5, 2)**

Left = -x, up = +y → (-5, 2)