The Coordinate Plane

Name: _____	Date: _____	Score: _____ / 24

Quick Review

The **coordinate plane** is made of a horizontal x**-axis** and a vertical y**-axis** that cross at the **origin** $(0, 0)$. A point is named by an **ordered pair** (x, y): the x-coordinate tells you how far *right* $(+)$ or *left* $(-)$, and the y-coordinate tells you how far *up* $(+)$ or *down* $(-)$. The axes split the plane into four **quadrants**: Quadrant I is $(+, +)$, II is $(-, +)$, III is $(-, -)$, and IV is $(+, -)$. Always start at the origin and read x first, then y.

◇ **Example:** In which quadrant is the point $(-3, 5)$?

⇒ Read the ordered pair carefully. The x-coordinate is -3, which is negative, so we move to the *left* of the origin. The y-coordinate is 5, which is positive, so we move *up*. Left and up together — that is the top-left region of the plane. The quadrant that is $(-, +)$ is Quadrant II. So the point $(-3, 5)$ lies in Quadrant II.

Answer: Quadrant II

PRACTICE

Name the quadrant or axis for each point.

1. $(4, 7)$ _____

2. $(-2, 6)$ _____

3. $(-5, -3)$ _____

4. $(8, -1)$ _____

5. $(3, 3)$ _____

6. $(-7, 2)$ _____

7. $(-1, -9)$ _____

8. $(6, -4)$ _____

9. $(0, 5)$ _____

10. $(-4, 0)$ _____

11. $(0, -3)$ _____

12. $(9, 0)$ _____

13. $(0, 0)$ _____

14. $(2, -8)$ _____

15. $(-6, -6)$ _____

16. $(-3, 8)$ _____

17. $(7, 1)$ _____

18. Start at origin, go right 5, up 2 _____

19. Start at origin, go left 4, down 3 _____

20. Start at origin, go right 6, down 1 _____

♦ Word Problems

21. A treasure map uses a coordinate grid. The treasure is 3 units left and 4 units down from the origin. What is its ordered pair, and which quadrant is it in? _____

22. On a city grid, the library is at $(5, 0)$. Describe its location relative to the origin. _____

23. A drone starts at the origin and flies to $(-2, 7)$. In which quadrant does it end up? _____

24. A school is plotted at $(4, -6)$ on a map. Which quadrant is the school in? _____

Answer Keys

1. Quadrant I
2. Quadrant II
3. Quadrant III
4. Quadrant IV
5. Quadrant I
6. Quadrant II
7. Quadrant III
8. Quadrant IV
9. on the y-axis
10. on the x-axis
11. on the y-axis
12. on the x-axis
13. the origin
14. Quadrant IV
15. Quadrant III
16. Quadrant II
17. Quadrant I
18. $(5, 2)$
19. $(-4, -3)$
20. $(6, -1)$
21. $(-3, -4)$, Quadrant III
22. on the x-axis, 5 units right
23. Quadrant II
24. Quadrant IV

Step-by-Step Explanations

1. Both coordinates are positive $(+, +)$, so it is Quadrant I.
2. Negative x, positive y is $(-, +)$, so Quadrant II.
3. Both coordinates are negative $(-, -)$, so Quadrant III.
4. Positive x, negative y is $(+, -)$, so Quadrant IV.
5. Both positive $(+, +)$ puts the point in Quadrant I.
6. Negative x, positive y is $(-, +)$ — Quadrant II.
7. Both negative $(-, -)$ puts the point in Quadrant III.
8. Positive x, negative y is $(+, -)$ — Quadrant IV.
9. When $x = 0$, the point sits right on the y-axis.
10. When $y = 0$, the point sits right on the x-axis.
11. With $x = 0$, the point is on the y-axis, below the origin.
12. With $y = 0$, the point is on the x-axis, right of the origin.
13. The point $(0, 0)$ is where the axes cross — the origin.
14. Positive x, negative y is $(+, -)$ — Quadrant IV.
15. Both negative $(-, -)$ — Quadrant III.
16. Negative x, positive y is $(-, +)$ — Quadrant II.
17. Both positive $(+, +)$ — Quadrant I.
18. Right 5 is $x = 5$ and up 2 is $y = 2$, giving $(5, 2)$.
19. Left 4 is $x = -4$ and down 3 is $y = -3$, giving $(-4, -3)$.
20. Right 6 is $x = 6$ and down 1 is $y = -1$, giving $(6, -1)$.
21. Left 3 gives $x = -3$ and down 4 gives $y = -4$, so the point $(-3, -4)$ is in Quadrant III, where both coordinates are negative.
22. Since $y = 0$, the library sits right on the x-axis, 5 units to the right of the origin.
23. The point $(-2, 7)$ has negative x and positive y, which is the $(-, +)$ region — Quadrant II.
24. With positive x and negative y, the point $(4, -6)$ is in the $(+, -)$ region — Quadrant IV.

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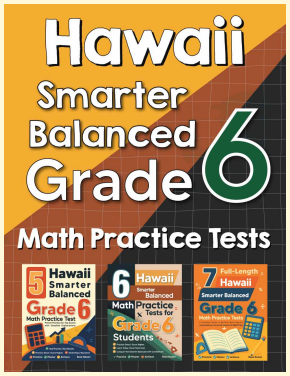

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