

Graphing Points in the First Quadrant

Grade 5 Math • Section 10.2

Name: _____

Date: _____

Score: _____ / 12

Quick Review and Helpful Hints

Steps to plot (x, y) : (1) Start at the origin. (2) Move x units right. (3) Move y units up. (4) Mark and label the point.

Reading a point: Find how far right (x -value) and how far up (y -value) from the origin.

Always list the x -coordinate first, then the y -coordinate.

Example: Plot the points $A(1, 4)$, $B(5, 2)$, and $C(3, 0)$ and describe their positions.

A : right 1, up 4. B : right 5, up 2. C : right 3, up 0 (on the x -axis). Note that C lands right on the x -axis because its y -coordinate is 0.

Answer: $A(1, 4)$, $B(5, 2)$, $C(3, 0)$

Practice Problems

Write the ordered pair for each point, or plot the given points.

- Point at right 2, up 6: _____
- Point at right 8, up 1: _____
- Point at right 0, up 4: _____
- Point at right 5, up 5: _____
- Which axis does $(0, 3)$ sit on? _____
- Which axis does $(7, 0)$ sit on? _____
- Plot $D(4, 6)$ and $E(6, 4)$. Are they the same point? _____
- Plot $F(0, 0)$, $G(3, 0)$, $H(3, 4)$, $I(0, 4)$. What shape do they form? _____
- A point is 3 units right of the origin and 9 units up. Write the ordered pair. _____
- Name a point that is on both axes. _____

Word Problems

- A treasure map uses a grid. The treasure is 6 units east and 8 units north of the origin. Write the location as an ordered pair. If a clue is at $(6, 3)$, how many units north must you still go to reach the treasure? _____
- Four corners of a rectangle are at $(1, 2)$, $(5, 2)$, $(5, 6)$, and $(1, 6)$. What is the length, width, and area of the rectangle? _____



Answer Keys

1. (2, 6)
2. (8, 1)
3. (0, 4)
4. (5, 5)
5. y -axis
6. x -axis
7. No
8. rectangle
9. (3, 9)
10. (0, 0)
11. (6, 8); 5 units
12. 4, 4, 16

Step-by-Step Explanations

1. Start with the main idea. For graphing points in the first quadrant, right 2, up 6 is (2, 6). The first coordinate tells how far to move right, and the second tells how far to move up.
2. Keep the work tidy. For graphing points in the first quadrant, right 8, up 1 is (8, 1). Switching the coordinates usually changes the point, so order matters.
3. Look at what the numbers mean. For graphing points in the first quadrant, right 0, up 4 is (0, 4). A table of ordered pairs makes a graphing pattern much easier to follow.
4. Use the setup first. For graphing points in the first quadrant, right 5, up 5 is (5, 5). The first coordinate tells how far to move right, and the second tells how far to move up.
5. Check the size of the answer. For graphing points in the first quadrant, a point with $x = 0$ lies on the y -axis. Switching the coordinates usually changes the point, so order matters.
6. Match the operation to the words. For graphing points in the first quadrant, a point with $y = 0$ lies on the x -axis. A table of ordered pairs makes a graphing pattern much easier to follow.
7. Write the important values first. For graphing points in the first quadrant, $D(4, 6)$ and $E(6, 4)$ switch coordinates, so they are different points. The first coordinate tells how far to move right, and the second tells how far to move up.
8. Follow the pattern carefully. For graphing points in the first quadrant, the points form a rectangle with horizontal and vertical sides. Switching the coordinates usually changes the point, so order matters.
9. Start with the main idea. For graphing points in the first quadrant, right 3 and up 9 gives (3, 9). A table of ordered pairs makes a graphing pattern much easier to follow.
10. Keep the work tidy. For graphing points in the first quadrant, the origin lies on both axes. The first coordinate tells how far to move right, and the second tells how far to move up.
11. Look at what the numbers mean. For graphing points in the first quadrant, the treasure is at (6, 8); from (6, 3) to (6, 8) is 5 units north. Switching the coordinates usually changes the point, so order matters.
12. Use the setup first. For graphing points in the first quadrant, length is $5 - 1 = 4$, width is $6 - 2 = 4$, and area is $4 \times 4 = 16$. A table of ordered pairs makes a graphing pattern much easier to follow.



Want Even More Practice?

Check Out Our Other Alabama ACAP Test Books!



Alabama ACAP Grade 5 Math Preparation Bundle

18 full-length practice tests across three books
(5 + 6 + 7)

No repeated questions—maximum practice value!



18 Tests!
3 Books
One Bundle

Important: All our test books contain **unique, completely different tests** from each other! Each book offers fresh practice questions—no repeats!

5 Practice Tests

- ✓ 5 complete practice tests with detailed explanations
- ✓ Perfect foundation for ACAP test preparation
- ✓ Builds confidence and test-taking skills
- ✓ High-quality questions aligned with state standards

Start your practice journey!

6 Practice Tests

- ✓ 6 complete practice tests with detailed explanations
- ✓ **Unique tests**—different from the 5 tests book
- ✓ Perfect for more practice after mastering 5 tests
- ✓ Builds even more confidence and test-taking skills
- ✓ Same high-quality questions aligned with standards

Take your practice to the next level!

7 Practice Tests

- ✓ 7 complete practice tests for maximum preparation
- ✓ **Unique tests**—different from 5 and 6 tests books
- ✓ The most comprehensive practice for Grade 5
- ✓ Ideal for students aiming for top scores
- ✓ Extensive practice builds mastery and confidence

Go all the way with comprehensive practice!