PEP Grade 7 Math — Unit 3: Rectangular Coordinate System · Unit Test (Basic)

PEP · Grade 7 · Term 2 · Mathematics · Unit Test · Basic

AI-generated practice paper · original study aid, not an official examination paper · 40 questions · 100 points

Name: _____ Date: _____ Score: _____

Answer all questions. This paper is worth 100 points. Show your working where appropriate.

I. Multiple Choice

1. Which of the following is the correct representation of a point located 4 units to the right and 3 units up from the origin?
   A. (3, 4)
   B. (4, 3)
   C. (-4, 3)
   D. (4, -3)

2. In the coordinate plane, which quadrant contains points where both x and y are negative?
   A. Quadrant I
   B. Quadrant II
   C. Quadrant III
   D. Quadrant IV

3. What is the distance from point A(5, 0) to the origin?
   A. 5 units
   B. 0 units
   C. 25 units
   D. 10 units

4. If a point lies on the y-axis, what must be true about its coordinates?
   A. x-coordinate is 0
   B. y-coordinate is 0
   C. Both coordinates are 0
   D. x-coordinate is positive

5. Which point lies in Quadrant II?
   A. (2, -3)
   B. (-2, 3)
   C. (-2, -3)
   D. (2, 3)

6. What is the reflection of point (3, -4) across the x-axis?
   A. (3, 4)
   B. (-3, -4)
   C. (-3, 4)
   D. (3, -4)

7. Point P is at $(-1, 5)$. Which direction is it from the origin?
   A. Right and up
   B. Left and down
   C. Left and up
   D. Right and down

8. What is the midpoint between points A(2, 6) and B(8, 6)?
   A. (5, 6)
   B. (6, 6)
   C. (5, 4)
   D. (4, 6)

9. What is the shortest distance from point $(-3, 4)$ to the x-axis?
   A. 3 units
   B. 4 units
   C. 5 units
   D. 7 units

II. Multiple Answers