

CHAPTER-3 | Coordinate Geometry

QUIZ PART-02

1. In a Cartesian plane, what are the two perpendicular lines used to determine the position of any point called?
- Coordinate axes
 - Quadrants
 - Origin
 - Coordinates

Explanation: The two perpendicular lines that form the Cartesian plane are the x-axis (horizontal) and y-axis (vertical), known as the coordinate axes

2. What is the point where the x-axis and y-axis intersect called?
- Origin
 - Abscissa
 - Ordinate
 - Quadrant

Explanation: The point where the x-axis and y-axis meet is called the origin, and its coordinates are (0, 0)

3. If the coordinates of a point are (0, -4), where will it be located?
- On the x-axis
 - On the y-axis
 - At the origin
 - Between the x-axis and y-axis

Explanation: A point with the coordinates (0, -4) lies on the y-axis, as its x-coordinate is 0

4. What is the name of each part of the plane formed by the x-axis and y-axis?
- Points
 - Quadrants
 - Coordinates
 - Axes

Explanation: The x-axis and y-axis divide the Cartesian plane into four parts, called quadrants

5. Which quadrant contains the points where both the x-coordinate and y-coordinate are positive?
- First quadrant
 - Second quadrant
 - Third quadrant
 - Fourth quadrant

Explanation: In the first quadrant, both the x-coordinate and y-coordinate are positive

6. In the second quadrant, the signs of the coordinates are:
- (+, +)
 - (-, +)
 - (-, -)
 - (-, +)

Explanation: In the second quadrant, the x-coordinate is negative and the y-coordinate is positive

7. What is the abscissa of a point located on the y-axis?
- 0
 - The y-coordinate
 - The x-coordinate
 - Undefined

Explanation: The abscissa (x-coordinate) of a point on the y-axis is always 0 because it lies on the vertical axis

8. What is the point identified by the coordinates (-3, -5) located?
- First quadrant
 - Second quadrant
 - Third quadrant
 - Fourth quadrant

Explanation: In the third quadrant, both the x-coordinate and y-coordinate are negative

9. How are the coordinates of a point on the x-axis represented?
- (x, 0)
 - (0, y)
 - (0, 0)
 - (x, y)

Explanation: A point on the x-axis has a y-coordinate of 0, so its coordinates are written as (x, 0)

10. What is the abscissa of point D from the graph shown on page 13?
- 2
 - 3
 - 3
 - 2

Explanation: From the given graph on page 13, the point D is located at the x-coordinate 3