

CHAPTER-3 | Coordinate Geometry

QUIZ PART-01

1. What does the Cartesian plane use to describe the position of points, lines, and shapes?
- Coordinates
 - Directions
 - Algebraic expressions
 - Geometrical proofs

Explanation: The Cartesian plane uses a system of coordinates to locate the positions of points, lines, and shapes on a graph

2. Which of the following is the physical dimension that allows movement along one path?
- 2 Dimension
 - 1 Dimension
 - 3 Dimension
 - No dimension

Explanation: 1 Dimension allows movement along only one path, as shown in the graphical representation of the dimension system

3. How many paths of movement are possible in 2 Dimension?
- 1 path
 - 2 path
 - 3 path
 - 4 path

Explanation: In 2 Dimension, movement is possible along two paths (typically along the x-axis and y-axis)

4. What is the point where the x-axis and y-axis intersect called?
- Origin
 - Cartesian plane
 - Quadrant
 - Axis

Explanation: The point where the x-axis and y-axis intersect is called the origin (0,0)

5. The coordinate (x, y) represents which position in a Cartesian plane?
- x represents the position on the y-axis
 - y represents the position on the x-axis
 - x represents the position on the x-axis and y represents the position on the y-axis
 - Both x and y represent the same axis

Explanation: In the Cartesian plane, x represents the horizontal position (x-axis) and y represents the vertical position (y-axis)

6. What is the symbol of the abscissa and ordinate in the third quadrant?
- (+, +)
 - (+, -)
 - (-, -)
 - (-, +)

Explanation: In the third quadrant, both the x-coordinate (abscissa) and the y-coordinate (ordinate) are negative, represented as (-, -)

7. What are the coordinates of a point on the y-axis?
- (x, 0)
 - (0, y)
 - (0, 0)
 - (x, y)

Explanation: A point on the y-axis will have an x-coordinate of 0, so its coordinates will be (0, y)

8. If the coordinates of a point are (-3, -4), which quadrant does this point lie in?
- First quadrant
 - Second quadrant
 - Third quadrant
 - Fourth quadrant

Explanation: A point with both coordinates negative (-3, -4) lies in the third quadrant.

9. What is the correct order of signs for coordinates in the second quadrant?
- (+, +)
 - (-, +)
 - (-, -)
 - (+, -)

Explanation: In the second quadrant, the x-coordinate is negative and the y-coordinate is positive, so the coordinates are (-, +)

10. 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 coordinates (0, -4) lies on the y-axis, where the x-coordinate is 0 and the y-coordinate is -4