MCQS on Chapter 7: Coordinate Geometry for Class 10

1. The distance between the points A(2, 3) and B(4, 1) is:
(a) 2
(b) $2\sqrt{2}$
(c) 4
(d) $2\sqrt{5}$

2. The distance of the point P(2, 4) from the x-axis is:
(a) 2 units
(b) 4 units
(c) $\sqrt{20}$ units
(d) 6 units

The distance from the x-axis equals the absolute value of the y-coordinate. So the answer is $|4| = 4$ units.

3. The distance of point A(6, 5) from the origin is:
(a) 30
(b) 11
(c) $\sqrt{61}$
(d) $\sqrt{30}$

Distance from origin = $\sqrt{(x^2 + y^2)} = \sqrt{(36 + 25)} = \sqrt{61}$

4. The points (1, 5), (2, 3) and (−2, −11) are:
(a) Vertices of a triangle
(b) Collinear
(c) Vertices of a right triangle
(d) Vertices of a square

5. The points (−1, −2), (1, 0), (−1, 2), (−3, 0) form a quadrilateral of type:
(a) Square
(b) Rectangle
(c) Rhombus
(d) Trapezium

6. The distance between P(0, 2) and Q(6, 0) is:
(a) $\sqrt{10}$
(b) $2\sqrt{10}$
(c) $4\sqrt{10}$

(d) 20

7. The midpoint of A(2, 4) and B(−2, −4) is:

(a) (−2, 4)

(b) (2, −4)

(c) (0, 0)

(d) (−2, −4)

8. he ratio in which (−4, 6) divides A(−6, 10) and B(3, −8) is:

(a) 1:3

(b) 3:4

(c) 2:7

(d) 2:5

9. If A(6, 1), B(8, 2), C(9, 4), D(p, 3) are vertices of a parallelogram, then p =

(a) 5

(b) 6

(c) 7

(d) 8

10. The quadrilateral formed by (4, 5), (7, 6), (4, 3) and (1, 2) is a:

(a) Square

(b) Rhombus

(c) Parallelogram (not a rectangle)

(d) Trapezium

11. A point on the y-axis equidistant from A(6, 5) and B(−4, 3) is:

(a) (0, 5)

(b) (0, 7)

(c) (0, 3)

(d) (0, 9)

12. If Q(0, 1) is equidistant from P(5, −3) and R(x, 6), one possible value of x is:

(a) 4 or −4

(b) 4 only

(c) −4 only

(d) 0

13. The points (3, 2), (−2, −3) and (2, 3) form a triangle. What type is it?

(a) Equilateral

(b) Isosceles

(c) Right triangle

(d) Scalene (not right)

14. Ashima, Bharti and Camella sit at A(3, 1), B(6, 4) and C(8, 6). Are they collinear?

(a) Yes, they are collinear

(b) No, they form a triangle

(c) Cannot be determined

(d) They form a right angle

15. The values of y for which the distance between P(2, −3) and Q(10, y) is 10 units are:

(a) 3 and −9

(b) - 3 and 9

(c) 9 and −3

(d) 6 and −12

Answer Key

1 - b, 2 - b, 3 - c, 4 - a, 5 - a, 6 - b, 7 - c, 8 - c, 9 - c, 10 - b, 11 - d, 12 - a, 13 - c, 14 - a, 15 - a