



INDIAN SCHOOL AL WADI AL KABIR

Class X, Mathematics

Worksheet- Coordinate Geometry

25 -08 - 2024

Q. No.	Questions of 1 Mark each. (MCQ's)							
1.	The fourth vertex D of a parallelogram ABCD whose 3 vertices are A(-2, 3), B(6, 7) and C(8, 3) is:							
	A	(0, 1)	B	(0, -1)	C	(-1, 0)	D	(1, 0)
2.	The perpendicular bisector of the line segment joining the points A(-1, 3) and B(2, 4) cuts the y-axis at :							
	A	(0, 5)	B	(0, -5)	C	(0, 4)	D	(0, -4)
3.	If C(-1, 1) is the midpoint of the line segment joining A(-3, b) and B(1, b + 4), then the value of b is:							
	A	1	B	3	C	-1	D	2
4.	What point on X- axis is equidistant from A(7, 6) and B(-3, 4)?							
	A	(0, 4)	B	(-4, 0)	C	(0, 3)	D	(3, 0)
5.	Point P divides the line segment joining the points A(4, -5) and B(1, 2) in the ratio 5:2. Co-ordinates of point P are:							
	A	$\left(\frac{5}{2}, \frac{-3}{2}\right)$	B	$\left(\frac{11}{7}, 0\right)$	C	$\left(\frac{13}{7}, 0\right)$	D	$\left(0, \frac{13}{7}\right)$
6.	AD is a median of ΔABC with vertices A (5, -6), B(6, 4) and C(0, 0). Length AD is equal to:							
	A	$\sqrt{68}$ units	B	$2\sqrt{15}$ units	C	$\sqrt{101}$ units	D	10 units
7.	If the distance between the points (3, -5) and (x, -5) is 15 units, then the values of x are:							
	A	12, -18	B	-12, 18	C	18, 5	D	-9, -12
8.	The centre of a circle is at (2, 0). If one end of a diameter is at (6, 0), then the other end is at:							
	A	(0, 0)	B	(4, 0)	C	(-2, 0)	D	(-6, 0)
9.	XOYZ is a rectangle with vertices X(-3, 0), O(0, 0), Y(0, 4) and Z(x, y). The length of its each diagonal is:							

	A	5 units	B	$\sqrt{5}$ units	C	$x^2 + y^2$ units	D	4 units
10.	The point P(1, 2) divides the line segment joining A(-2, 1) and B(7, 4) in the ratio:							
	A	2:1	B	1:2	C	3:2	D	2:3
11.	If the point P (k, 0) divides the line segment joining the points A(2, -2) and B(-7, 4) in the ratio 1 : 2, then the value of k is:							
	A	1	B	2	C	-2	D	-1
12.	The coordinates of the point which is reflection of the point (-3, 5) in the x axis are:							
	A	(3, 5)	B	(3, -5)	C	(-3, -5)	D	(-3, 5)
	DIRECTION: In the following questions, a statement of assertion (A) is followed by statement of Reason (R) . Choose the correct option							
	(a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A) (b) Both assertion (A) and reason (R) are true and reason (R) is not the correct explanation of assertion (A) (c) Assertion (A) is true but reason (R) is false. (d) Assertion (A) is false but reason (R) is true.							
13.	Assertion: Mid-point of a line segment divides the line segment in the ratio 1: 1. Reason: The ratio in which the point (- 3, k) divides the line segment joining the points (- 5, 4) and (- 2, 3) is 1: 2. (C)							
14.	Assertion: If centroid of a triangle formed by the points (a, b), (b, c) and (c, a) is at origin, then $a + b + c = 0$. Reason: Centroid of a ΔABC with vertices $A(x_1, y_1)$, $B(x_2, y_2)$, $C(x_3, y_3)$ is given by $\left(\frac{x_1 + x_2 + x_3}{3}, \frac{y_1 + y_2 + y_3}{3}\right)$.							
15.	Assertion: The point (0, 4) lies on X- axis. Reason: The x coordinate of the point on Y axis is 0.							

	Answers							
Answers	1	B	2	A	3	C	4	D
	5	C	6	A	7	B	8	C
	9	A	10	B	11	D	12	C
	13	c	14	a	15	d		