		INDIAN SCHOOL AL WADI AL KABIR Class IX, Mathematics							
Mathematics			Worksheet-Coordinate Geometry						
O No	26 - 08 - 2023								
Q. NO.	SECTION A								
	Section A consists of 12 Questions of 1 Mark each.								
1.	Find the perpendicular distance of a point P(-5, 3) from y –axis.								
	Α	3 units	В	-5 units	С	5 units	D	2 units	
2.	The point which lies on y-axis at a distance of 5 units in the negative direction of y-axis is:								
	A	(0, 5)	В	(0, -5)	С	(5, 0)	D	(-5, 0)	
3.	If the	e perpendicular dista	nce of	a point from X- axis	is 7 u	units and foot of the	he per	pendicular lies on	
	the n	legative direction of	X- axi	is, then the point has:	(CFQ)			
	Α	abscissa is -7	В	ordinate is 7 only	С	ordinate is -7 only	D	ordinate is 7 or - 7	
4.	In which quadrant will the point lie if the ordinate is 2 and abscissa is -3.								
	Α	Ι	В	II	С	III	D	IV	
5.	If the coordinates of two points are P(-2, 3) and Q(-3, 5), find abscissa of P minus abscissa of Q.								
	Α	1 unit	B	5 units	С	2 units	D	6 units	
6.	On plotting the points O (0, 0), A (3, 0), B (3, 4), C (0, 4) and joining OA, AB, BC								
	and CO which of the following figure is obtained?(CFQ)								
	Α	Square	B	Rectangle	С	Trapezium	D	Rhombus	
7.	Amit's school is 5 km to the west and 3 km north of his house. He represented his house and his								
	school on a coordinate grid, with his house located at the origin, and the positive x axis represent								
	the direction that is east of his house. If 1 unit on the coordinated grid represents 1 km, what will								
	be th	le coordinate of ms s	chool						
	A	(5, 3)	B	(3, 5)	C	(-5, 3)	D	(-3, 5)	

8.	Point (- 10, 0) lies:								
	A	on the negative direction of the <i>x</i> -axis				on the negative direction of the y-axis			
	С	in the third quadrant				in the fourth quadrant			
9	The points $(-5, 2)$ and $(2, -5)$ lie in the								
	A	same quadrant B II and III quadrants, respe					ts, respectively		
	С	IV and II quadrants, respectively				II and IV quadrants, respectively			
10.	If P $(-1, 1)$, Q $(3, -4)$, R $(1, -1)$, S $(-2, -3)$ and T $(-4, 4)$ are plotted on the graph paper, then the point(s) in the fourth quadrant are:								
	A	P and T	В	Q and R	С	Only S	D	P and R	
	DIRECTION: In the question number 11 and 12, 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.								
11	(d) Assertion (A) is false but reason (R) is true.								
11.	Asse	Assertion:							
	The points $(-3, 5)$ and $(5, -3)$ are at different positions in the coordinate plane.								
	Reason: If $x \neq y$, then $(x \mid y) \neq (y \mid x)$								
12.	Asse	Assertion:							
	The	The point $(-5, 0)$ lies on y -axis and $(0, -4)$ lies on x -axis.							
	Reason:								
	Every point on the x -axis has zero distance from x -axis and every point on the y -axis has zero								
	distance from y -axis.								

	SECTION B						
	Questions of 2 marks each						
13.	A policeman and a theif are equidistant from the jewel box. Upon considering jewel box as origin the position of the policeman is (0, 5). If the ordinate of the position of the thief is 0, then write the coordinates of the position of thief. (CFQ)						
14.	In which quadrant or on which axis each of the following points lie? (-3, 5), (4, -1), (2, 0), (2, 2), (-3, -6)						
15.	The point A $(k, k-2)$ lies in the first quadrant and the point does not lie on any of the axis. Another point M $(m, 2m-5)$ is such that <i>m</i> is equal to the least possible integer value of <i>k</i> . Where does the point M lie? (CFQ)						
16.	Find the value of x and y if, (1) $(x + 3, 5) = (5, y)$ (2) $(2, 2y - 3) = (x, 7)$						
	Section C						
	Questions of 3 marks each						
17.	Observe the given figure and answer the following questions:						
	 (1) The coordinates of point C. (2) The abscissa of point D. (3) The ordinate of point H. (4) The point whose coordinates are (-2, -3). (5) The coordinates of any one point in the third quadrant which have same abscissa and ordinate. 						
18.	 Find the coordinates of the point: (i) which lies on <i>x</i> and <i>y</i> axes both. (ii) whose ordinate is – 4 and which lies on <i>y</i>-axis. (iii) whose abscissa is 5 and which lies on <i>x</i>-axis. (iv) above the X axis lying on the Y axis at a distance of 3 units. (v)below the X axis and on the Y axis at a distance of 8 units. (vi)right of Origin and on the X axis at a distance of 2 units. 						

19.	In the given figure, PQRS is a rectangle. Find the (i) sides of the rectangle (ii) coordinates of points I and R. (CFQ)	YA P Q(1.5, 2)				
	Question of 5 n	S(-2.4, -2) Narks				
20.	 For a group activity of class IX A the teacher divident the space as Cartesian plane and chairs are placed various points for the group of 4 students at points B, C and D.(CFQ) (1) What is common in points A and D? (2) What is common in pints A and B. (3) Find the area of rectangle ABCD? (4) What is the distance of point A to B? (5) Write the coordinate of point C. 	ided I at is A, 5 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -				
	Question of 4 n	marks				
21.	Case Study Based: A forest ranger keeps track of bears in his area. He plotted their location on a graph. The origin represents the ranger's control room's location. To access and maintain equipment, Road x and Road y have been laid and paved inside the forest. They pass through the control room. One unit on the graph paper represents 1 km.	10 Road y Bear 389 5 5 Bear 415 Road x -10 -5 -5 -5 Bear 425 Bear 467 15 15				

21	I Which bear is nearest to a paved road?										
	Π	II Bear 467 has been injured. The forest rescue team starts from the control room and decides to use the paved road as much as possible. Which road should they take? III How far is Bear 425 from Road x? OR									
	III										
	A tiger is at (11, 4). How far from it is the nearest bear?										
	IV	In the forest, rai is travelling on I the location of the	In the forest, rain shelters are at an interval of 2 km along paved roads. A forest ranger is travelling on Road x. He crosses a rain shelter located at (3, 0). What is likely to be the location of the next shelter?								
	VThe control room receives a message about trespassers located at (-9, -8). The trespassers were seen moving towards Road x on foot. The ranger immediately dispatches a team of guards in a jeep towards them. The guards encounter the trespassers before crossing the road x.Which of the following is most likely to be the location of the encounter? (-9, -14), (-9, -5), (-9, 4), (9, 5)										
			Answers								
	1	С	2	В	3	С	4	В			
	5	А	6	В	7	С	8	А			
	9	D	10	В	11	a	12	d			
Answers	13	(5, 0) or (-5,0)	14	II, IV, X axis, I, III	15	I Quadrant	16	1.x=2, y=5 2. x=2, y = 5			
	17	(4,0), 0, -2, E	18	(6,0), (0,-4), (5,0), (0,3), (0, -8), (2,0)	19	1.3.9 units, 4 units 2.P(-2.4, 2) R(1.5, -2)	20	 (1) abscissa is 2 (2) ordinate is 2 (3) 12 sq. units (4) 4 units (5) (6,5) 			
	20	(I)Bear 415 (II)y	I)Bear 415 (II)y (III)13km OR 2km (IV) (5, 0) or (1, 0) (V)(-9, -5)								