



# INDIAN SCHOOL DARSAIT

## DEPARTMENT OF MATHEMATICS



Subject : Mathematics	Topic : Co-ordinate Geometry	Date of Worksheet : 23-5-2017
Worksheet No: 4		
Resource Person: Mrs. Anu Likson		Date : _____
Name of the Student : _____		Class & Division : IX ..... Roll Number : ____

<b>SECTION A (BASIC SKILL)</b>		<b>Marks</b>
Answer the following questions:		
1. Simplify: $(12 \times 4.3) + (0.4 \times 0.3)$	2. Find the HCF of 125, 45	1
3. Find the LCM of 12, 36, 18	4. Simplify $(200 + 10.5) - (19 + 2.05)$	1
<b><u>SECTION B</u></b>		
Answer the following questions:		
1. In which quadrant do the following points lie ? (A) (-6, 2) (B) (-5, -4) (C) (3, -2) (D) (9,6)		2
2. In which quadrant will the point lie, if: (i) The ordinate is 2 and the abscissa is -3 ? (ii) The abscissa is -4 and the ordinate is -2? (iii) The ordinate is 3 and the abscissa is 4 ? (iv) The ordinate is 3 and the abscissa is -2 ?		2
3. Plot the point A(1, 3), B(1, -1), C(-1, -1). What must be the coordinate of the point D, if ABCD is a rectangle?		2
4. If $(x + 2, 4) = (5, y - 2)$ , then what will be the co-ordinate of (x, y) ?		2
5. Plot (-3, 0), (5, 0) and (0, 4) on Cartesian plane. Name the figure formed by joining these points.		3
6. A point lies on x-axis at a distance of 9 units from y-axis. What are its co-ordinates ? What will be the co-ordinates of a point if it lies on y axis at a distance of -9 units from x-axis?		3
7. Plot the points A(0,3), B(5,3), C(4,0) and D(-1,0) on the graph paper. Identify the figure ABCD and find whether the point (2, 2) lies inside the figure or not?		4
8. Plot the points A(4,0) and B(0,4). Join AB to the origin O. Find the area of $\Delta AOB$ .		4
<b><u>SECTION C – HOT QUESTIONS</u></b>		
1. If $(2-a + b, b) = (6, 2)$ , then what will be the value of a.		3
2. Calculate the area of triangle formed by joining the points (4,0), (0,0) and (0,4).		3
3. Find the co-ordinates of the vertices of a rectangle placed in III quadrant in the Cartesian plane with length 'p' units on x-axis and breadth 'q' units on y-axis.		4
4. (i) Plot the points A(0,4), B(-3,0), C(0,-4), D(3,0). (ii) Name the figure obtained by joining the points A, B, C, D. (iii) Also, name the quadrants in which sides AB and AD lie.		4



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