		ABET
Worksh	: : MATHEMATICS Topic : CO-ORDINATE Date : 20-10-20 eet No: 7 GEOMETRY ce Person: Mrs. Anu Likson	19
Name o	of the Student Class &Division:_X Roll Number :	
S.No.	Section A-[Basic skills]	
1.	35 - 0.006 =	
2.	$125 \times 450 =$	
3.	234.56 x 10000 =	
4.	300 - 25.5 =	
5.	$4(3-5) + \frac{5(2-6)}{4} =$	
S1.N0.	<u>Section B -[Chapter based questions]</u>	Marks
1.	Find the values of k , if the points $A(2,3)$, $B(4,k)$ and $C(6,-3)$ are collinear.	3
2.	If $P(x,y)$ is equidistant from the points $A(7,1)$ and $B(3,5)$, find the relation between x and y.	3
3.	In what ratio does the point $C(4,5)$ divides the join of $A(2,3)$ and $B(7,8)$?	3
4.	In what rato is the linesegis ment joining the points A(-2,-3) and B(3,7) divided by the y-axis? Also find the co-ordinates of the point of division.	2
5.	The linesegment joining the points A(4,-5) and B(4,5) is divided by the point P such that $\frac{AP}{AB} = \frac{2}{5}$. Find the co-ordinates of P.	3
6.	The line segment joining the points $A(3,-4)$ and $B(1,2)$ is trisected at the points $P(p,-2)$ and	4
	$Q(\frac{5}{3}, q)$, find the values of p and q.	
7.	If (2,p) is the midpoint of the lines egment joining the points A(6,-5) and B(-2,11) , find the value of p .	3
8.	Find the distance between the points $(\frac{-8}{5}, 2)$ and $(\frac{2}{5}, 2)$	2
9.	Find the area of the quadrilateral ABCD whose vertices are $A(1,0)$, $B(5,3)$ $C(2,7)$ and $D(-2,4)$.	4
10.	Find the area of the triangle formed by joining the midpoints of the sides of the triangle whose vertices are $(2,2)$, $(4,4)$ and $(2,6)$.	4



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11.	If P(5,-7), Q(4,7) and R(6,-3) are the vertices of \triangle PQR, M is the midpoint of QR	3		
	and A is a point on PM joined such that $\frac{PA}{AM} = 2$, find the coordinates of A.			
12.	If (a,0), (0,b) and (3,2) are collinear, show that $2a + 3b - ab = 0$	4		
13.	Coordinates of houses of Sonu and Laly are (7,3) and (4,3) respectively. The coordinates of their school are (2,2). If both leave their house at the same time in the morning and also reach school in time then (a)who travel faster (b)which value is depicted in this question?	4		
SECTION C [HOT QUESTIONS]				
1.	If $P(x, y)$ is any point on the line joining the points $A(a, 0)$ and $B(0, b)$, then	3		
2.	show that $\frac{x}{a} + \frac{y}{b} = 1$ Show that the point A(a, b + c), B(b, c + a) and C(c, a + b) are collinear.	3		
3.	Prove that diagonals of a rectangle bisect each other and are equal.	3		

4. Determine the ratio in which the straight line x - y + 2 = 0 divides the line segment 3 joining (-1,3) and (9,8).
