



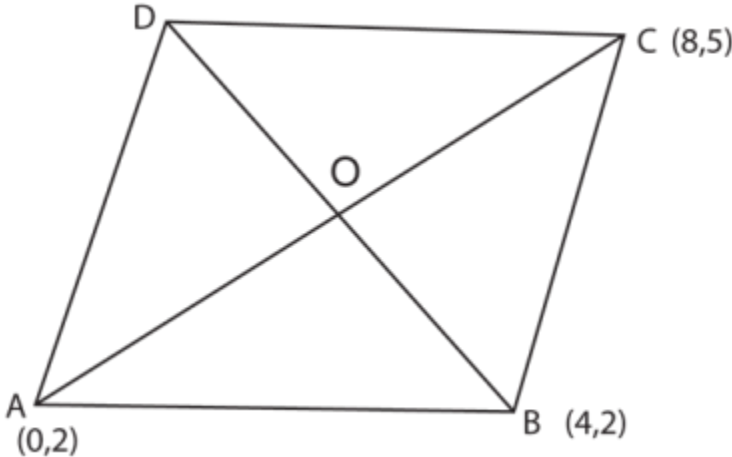
INDIAN SCHOOL NIZWA - WORKSHEET

MATHEMATICS CH:7-COORDINATE GEOMETRY

Name: _____

Date: _____

Class: X Sec: ____

1.	Find the lengths of the medians of ΔABC having vertices at $A(4, 2)$, $B(1, 3)$ and $C(-2, -1)$
2.	For what value of K , points $(K, -2)$, $(3, 2)$ and $(4, 6)$ are on a line?
3.	Find the value of K for which the points $A(2, -3)$, $B(5, 4)$ and $C(K, 5)$ are collinear.
4.	If the area of triangle PQR formed by $P(x, y)$, $Q(2, 3)$ and $R(-2, 4)$ is 9 square units find the relation between x & y .
5.	Find the co-ordinates of the points of trisections, of the line segment joining the points $A(-2, 2)$ and $B(7, -11)$
6.	The line segment AB joining the points $A(3, -2)$ and $B(1, 3)$ is trisected at the points $P(a, -1/3)$ and $Q(5/3, b)$ find the value of a & b .
7.	Find the coordinates of the centroid of the triangle whose vertices are $A(5, -1)$, $B(-3, -2)$ and $C(-1, 8)$. Also find the length of the median AD .
8.	In the figure, $ABCD$ is a parallelogram. (a) Write the co-ordinates of D. (b) What is the height of this parallelogram? (c) Find the perimeter and area of it. 
9.	Find the area of quadrilateral $ABCD$ formed by the points $A(-4, -4)$, $B(10, 2)$, $C(4, 8)$ and $D(-2, 10)$
10.	$A(5, 3)$, $B(7, 7)$ and $C(8, 5)$ are the three vertices of a parallelogram $ABCD$. If E is the midpoint of D find the area of ΔADE .