



INDIAN SCHOOL DARSAIT

DEPARTMENT OF MATHEMATICS

WORKSHEET # 3



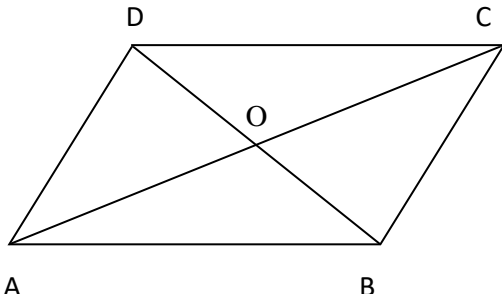
Subject : MATHEMATICS	Topic : UNDERSTANDING QUADRILATERALS	Date of Worksheet : 15/05/2018
Resource Person: Mrs. Indu.P		
Name of the Student _____	Class & Division: _____	Roll Number : _____

Sl.No.	CHAPTER BASED QUESTIONS	Marks
1.	The angles of a quadrilateral are in the ratio 2 : 3 : 4 : 1. Find the measure of each angle of the quadrilateral.	2
2.	Find the value of x. <div style="text-align: center; margin: 10px 0;"> </div>	2
3.	The sum of two opposite angles of a parallelogram is 140° . Find all the angles of the parallelogram.	2
4.	ABCD is a parallelogram whose diagonals AC and BD intersect each other at right angles. If AC = 16 cm and BD = 12 cm, find AB.	2
5.	The adjacent sides of a parallelogram are in the ratio 3 : 7 and the perimeter is 100cm. Find the sides of the parallelogram.	2
6.	In quadrilateral ABCD, AB is parallel to DC, $\angle DAB = 120^\circ$ and $\angle ABC = 110^\circ$. Find the measure of $\angle C$ and $\angle D$.	3
7.	LIME is a rhombus. Find x, y, z. <div style="text-align: center; margin: 10px 0;"> </div>	3



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8.	Identify all the quadrilaterals that have: (i) All the four sides are of equal length. (ii) Each angle is a right angle.	2
9.	The angles of a quadrilateral are $5x$, $5(x + 2)$, $(6x - 20)$ and $6(x + 3)$ respectively. Find: (i) The value of x . (ii) Each angle of the quadrilateral.	2
10.	In the given figure, ABCD is a parallelogram in which $\angle BAC = 30^\circ$, $\angle DAC = 40^\circ$ and $\angle COD = 110^\circ$, find $\angle ABC$ and $\angle BCD$. 	3
11.	Three angles of a quadrilateral are equal and the measure of fourth angle is 81° . What is the measure of each equal angles?	2
12.	In a parallelogram ABCD, $\angle D = 70^\circ$, find $\angle A$, $\angle B$ and $\angle C$	2
HOT QUESTIONS		
1.	The exterior angle of a regular polygon is one-fifth of its interior angle. How many sides have the polygon?	2
2.	Find the measure of an interior angle of a regular polygon having 15 sides.	3
3.	What is the ratio of the interior angles of a pentagon and a decagon?	3
4.	One angle of a quadrilateral is 111° and the remaining three angles are equal. Find three angles.	3
5.	The perimeter of a parallelogram is 150 cm. One of its side is greater than the other by 25 cm. Find length of all sides of the parallelogram.	3