

DELHI PUBLIC SCHOOL , JAMMU

( SESSION 2014-15)

REVISION SHEET 2

CLASS –VIII , SEC-

SUB-MATHS

**TOPICS – 1 POLYGONS & QUADRILATERALS**

**2. PRACTICAL GEOMETRY**

**SECTION-A**

1. Define a concave quadrilateral & convex quadrilateral with the help of figure.
2. Give any two properties of a parallelogram.
3. Find the number of sides of a polygon which has 20 diagonals.
4. Define a regular & irregular polygon.
5. What are the different types of a polygon.
6. Differentiate between a trapezium & an isosceles trapezium.
7. Give two properties of a kite.
8. Find each angle of a regular polygon.

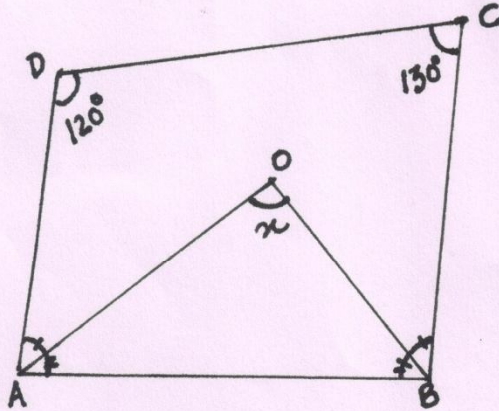
**SECTION –B**

1. Construct a quadrilateral ABCD with AB=3 cm, BC =4cm, CD =4.5 cm , AD= 3.5 cm & Diagonal AC=5.2 cm.
2. Construct a parallelogram MORE with OR=6cm , RE =4.5 cm , EO =7.5cm.
3. Construct a rhombus HOLY if HO=6cm and HL=9cm.
4. Construct a quadrilateral ABCD in which AB=4cm ,BC=4.5cm ,  $\angle A=90^\circ$  ,  $\angle B=75^\circ$  &  $\angle D=80^\circ$ .
5. Construct a square POST with diagonal PS=6cm

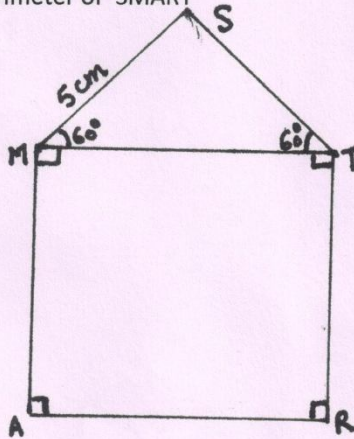
**SECTION-C**

1. The measure of angles of a hexagon are  $x^\circ$  ,  $(x-5)^\circ$  ,  $(x-5)^\circ$  ,  $(2x-5)^\circ$  ,  $(2x-5)^\circ$  , and  $(2x+20)^\circ$  . Find the value of x.
2. Three angles of a quadrilateral are in the ratio 3 : 5 : 8. The mean of these angles is  $80^\circ$  . Find all the four angles of the quadrilateral.

- Interior angles of a pentagon are five consecutive multiples of 3. Find all the angles of the pentagon.
- Find the value of  $x$  in the adjacent figure if  $AO$  and  $BO$  are the bisectors of  $\angle A$  and  $\angle B$  respectively.



- In the adjacent figure 'SMART' MART is a rhombus with each of its angle as  $90^\circ$ . In  $SM = 5\text{cm}$ , find the perimeter of 'SMART'.



- Perimeter of a square HOPE is 40 cm. find the value of  $(HP)^2 + (OE)^2$ .