DELHI PUBLIC SCHOOL , JAMMU

(SESSON 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.

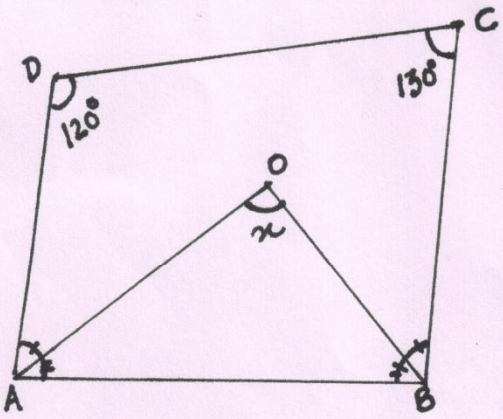
SECTION –B

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 , $\angle A=90^0$, $\angle B=75^0$ & $\angle D=80^0$.
5. Construct a square POST with diagonal PS=6cm

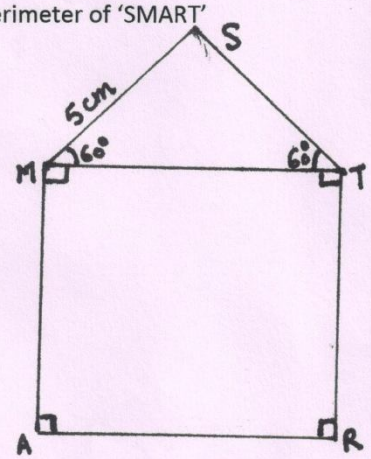
SECTION-C

1. The measure of angles of a hexagon are x^0 ,$(x-5)^0$, $(x-5)^0$,$(2x-5)^0$,$(2x-5)^0$,and $(2x+20)^0$. Find the value of x.
2. Three angles of a quadrilateral are in the ratio 3 : 5 : 8. The mean of these angles is 80^0. Find all the four angles of the quadrilateral.

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



5. In the adjacent figure 'SMART' MART is a rhombus with each of its angle as 90^0. In SM = 5cm, find the perimeter of 'SMART'



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