**Subject:** - Mathematics **Topic:** - **Quadrilaterals** 

## **PRACTICE PAPER**

CBSE-8<sup>th</sup>

**Q.1.** One angle of a quadrilateral is 180° and the remaining three angles are equal. Find the three equal angles?

Ans. 84°

**Q.2.** How many sides has a regular polygon, each angle of which is of measure  $108^{\circ}$ . **Ans.** n = 5

**Q.3.** Two regular polygons are such that the ratio b/w their no. of sides is 1:2 and the ratio of measures of their interior angles is 3:4. Find the number of sides of each polygon.

Ans. n = 5

Q.4. The sum of the interior angles of a polygon is three times the sum of its exterior angles. Determine the no. of sides of the polygons.

Ans. 8

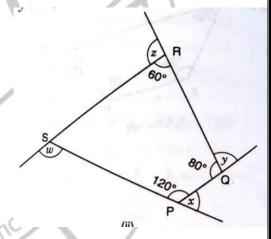
**Q.5.** In the adjoining figure find: x + y + z + w

Ans. 
$$x = 60^\circ$$

$$y = 100^\circ$$

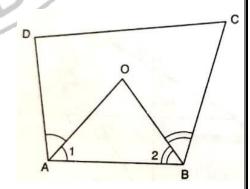
$$z = 120^{\circ}$$

$$w = 80^{\circ}$$



**Q.6.** In a quadrilateral ABCD, AO and BO are the bisectors of  $\angle A$  and  $\angle B$  respectively.

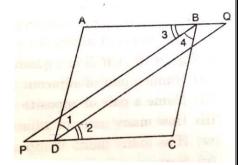
Prove that  $\angle AOB = \frac{1}{2} (\angle C + \angle D)$ .



EMAIL: THETUITION111@GMAIL.COM MOB: 9675830111, 7409999556(WHATSAPP)

**Q.7.** In Fig. bisectors of  $\angle B$  and  $\angle D$  of quadrilateral ABCD meets CD and AB produced at P and Q respectively.

Prove that:  $\angle P + \angle Q = \frac{1}{2} (\angle ABC + \angle ADC)$ .

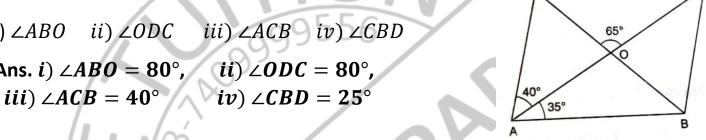


**Q.8.** In fig. ABCD is a //gm in which  $\angle DAO = 40^{\circ}$ ,

$$\angle BAO = 35^{\circ} \ and \ \angle COD = 65^{\circ}$$
. Find:

i) 
$$\angle ABO$$
 ii)  $\angle ODC$  iii)  $\angle ACB$  iv)  $\angle CBD$ 

Ans. 
$$i) \angle ABO = 80^{\circ}$$
,  $ii) \angle ODC = 80^{\circ}$ 



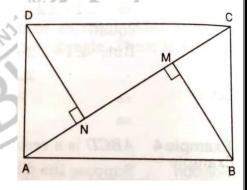
**Q.9.** In a  $\parallel$ gm ABCD, the bisectors of  $\angle A$  and  $\angle B$  meet at O. Find  $\angle AOB$ . **Ans. 90°** 

Q.10. The shorter side of a ||gm is 4.8 cm and the larger side is half as much again as shorter side. Find the perimeter of the ||gm. Ans. 24 cm.

Q.11. ABCD is a rhombus in which the altitude from D to side AB bisects AB. Find  $\angle A = \angle C = 60^{\circ} \ and \ \angle B = \angle D = 120^{\circ}$ the angles of the rhombus

Q.12. In Fig. ABCD is a rectangle. BM and DN are perpendiculars from B and D respectively on AC.

Prove that: i)  $\Delta BMC \cong \Delta DNA$ ii) BM = DN



**Q.13.** The diagonals of a rectangle ABCD meet at O. If  $\angle BOC = 44^{\circ}$ , Find OAD.

Ans. 680

**Q.14.** All the angles of a quad. are equal to each other. Find the measure of each. Is the quad. a ||gm? What special type of ||gm is it? Ans. 90° each, Yes, Rectangle

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