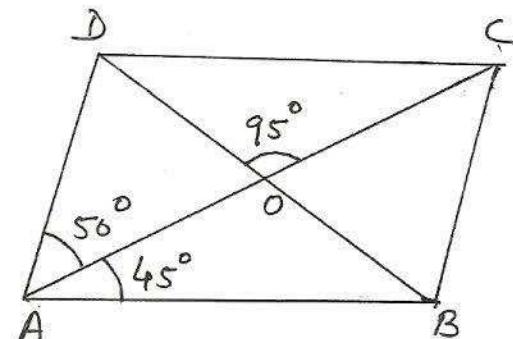


VIII- Mathematics Assignment No.-03 Understanding Quadrilaterals

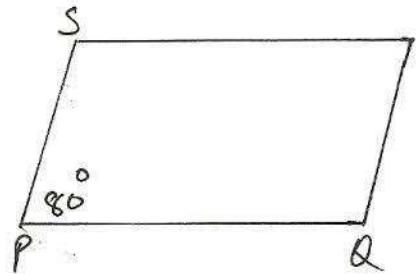
- Q1 The ratio of the two sides of a parallelogram is 1:2 and its perimeter is 60m. Find the sides of the parallelogram.
- Q2 The sum of the two opposite angles of a parallelogram is 150° . Find all the angles of the parallelogram. (11gm)
- Q3 The perimeter of a 11gm is 120cm. If one side is greater than the other by 20cm. Find the lengths of the sides of the 11gm.
- Q4 In the 11gm ABCD
- $$\angle DAO = 50^\circ$$
- $$\angle BAO = 45^\circ$$
- $$\angle COD = 95^\circ$$



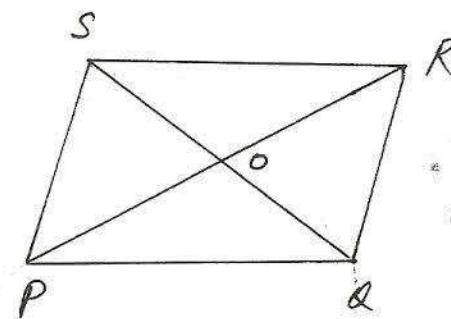
Calculate
 (i) $\angle ABO$
 (ii) $\angle ODC$
 (iii) $\angle ACB$
 (iv) $\angle CBD$

Cont-Pg-2

- Q5. In the figure, PQRS is a 119^{m} . and one of the angles $\angle P = 80^{\circ}$. Calculate other angles.

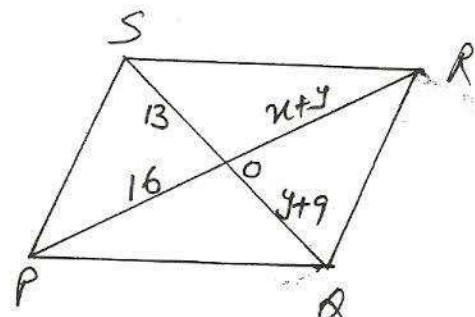


- Q6. PQRS is a 119^{m} in which $OQ = 4 \text{ cm}$ and PR is 6 more than SQ. Find OP



- Q7. Two adjacent angles of a 119^{m} ABCD are in the ratio $2:3$. Find all the angles of the 119^{m} .

- Q8. PQRS is a 119^{m} . The diagonals PR and SQ intersect at O. if



$$OQ = (y+9) \text{ cm}, \quad OS = 13 \text{ cm}$$

$$OP = 16 \text{ cm}, \quad OR = (x+y) \text{ cm}$$

Find x and y

ANSWERS

(Q1) 20m, 10m	(Q5) $\angle P = 80^{\circ}, \angle Q = 100^{\circ}$ $\angle R = 80^{\circ}, \angle S = 100^{\circ}$
(Q2) $75^{\circ}, 105^{\circ}, 75^{\circ}, 105^{\circ}$	(Q6) 7cm
(Q3) 20cm, 40cm	(Q7) $72^{\circ}, 108^{\circ}, 72^{\circ}, 108^{\circ}$
(Q4) $40^{\circ}, 40^{\circ}, 50^{\circ}, 65^{\circ}$	(Q8) $x = 12 \text{ cm}, y = 6 \text{ cm}$