

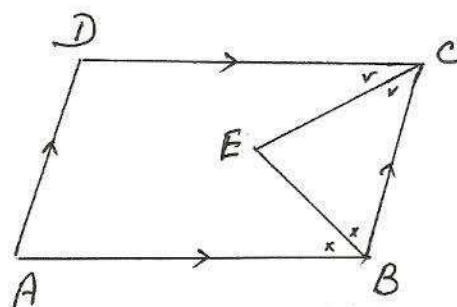
VIII - Mathematics Assignment No-04 - Understanding Quadrilateral

Q1. Two adjacent angles of a parallelogram are $(2x+10)^\circ$ and $(3x-40)^\circ$. Find the measure of all angles of the parallelogram.

Q2. Two adjacent sides of a parallelogram are such that one is twice the other. If the perimeter of the parallelogram is 120 m, find the length of its adjacent sides.

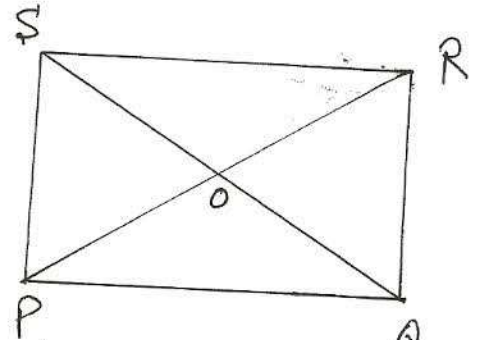
Q3. An angle of a 119° is 60° more than its adjacent angle. Find the measure of all its angles.

Q4. In the adjoining figure, ABCD is a 119° in which BE and CE are the bisectors respectively. Find the measure of $\angle E$.



of $\angle B$, $\angle C$
measure

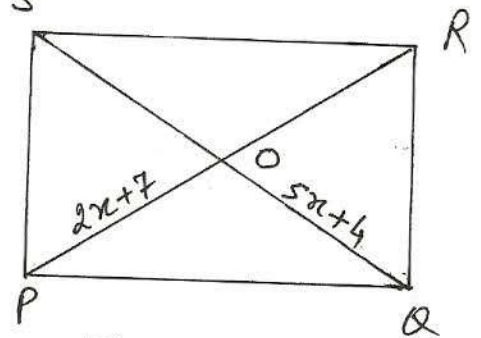
Q5. The diagonals of a rhombus are 10cm and 24cm. Find the length of a side of the rhombus.



Q6. In the adjoining figure, $\triangle SPQ$ is a right angled triangle and O is the mid point on the hypotenuse SQ . Explain why O is equidistant from P, Q, S .

Q7. Find the length of the diagonal of a rectangle whose sides are 5cm and 12cm.

Q8. $PQRS$ is a rectangle in which the diagonals PR and QS intersect each other at point O . If $OP = 2x + 7$ and $OQ = 5x + 4$. Find the value of x .



ANSWERS:

(Q1) $94^\circ, 86^\circ, 94^\circ, 86^\circ$	(Q5) 13 cm
(Q2) 20 m and 40 m	(Q6) —
(Q3) $60^\circ, 120^\circ, 60^\circ, 120^\circ$	(Q7) 13 cm
(Q4) 90°	(Q8) $x = 1$