

DELHI PUBLIC SCHOOL, SRINAGAR

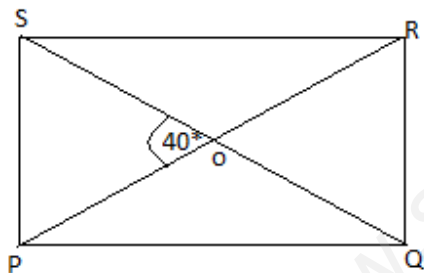
Subject:- Mathematics

Worksheet

Topic:- Quadrilaterals

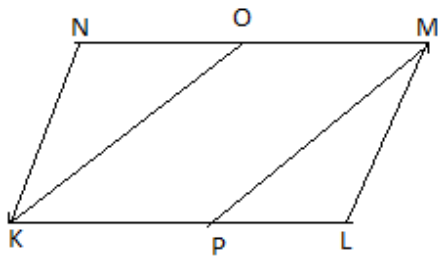
Q1) The measure of two angles of a parallelogram are in a ratio 3:2 find the measure of each angle of a parallelogram

Q2) The diagonals of a rectangle PQRS intersect each other at O . if angle POS = 40° , find $\angle ROQ$ and $\angle ORQ$



Q3) the ratio of two sides of a parallelogram is 2:5 and its perimeter is 70 find the sides of a parallelogram

Q4) In the following figure KLMN is a parallelogram and a line segment KO and PM bisect the angles K and M respectively .show that $KO \parallel PM$



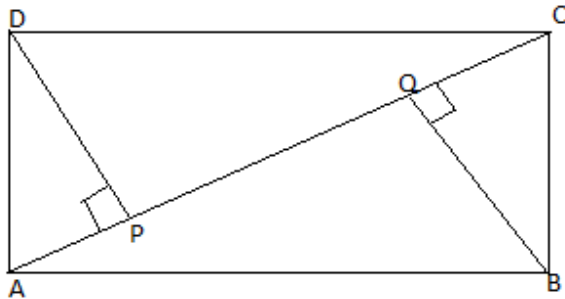
Q5) The adjacent sides of a parallelogram differ by 30 cm . if its perimeter is 160cm , find its sides

Q6) In the figure , ABCD is a rectangle DP and PQ are perpendiculars to AC from D and B respectively

- (a) Is $AB = CD$
- (b) $\angle BQA = \angle DPC$
- (c) $\angle BAQ = \angle DCP$

(d) Is $\triangle BQA \cong \triangle DPC$? state the congruence condition

(e) Is $BQ = DP$? state the reason in each case



Q7) prove that opposite angles of a parallelogram are equal

Q8) in figure ABCD is a quadrilateral with $\angle B = 56^\circ$ and $\angle D = 104^\circ$. If $\angle BAD$ and $\angle BCD$ are in a ratio 2:3 find the value of $\angle 1$ and $\angle 2$

