

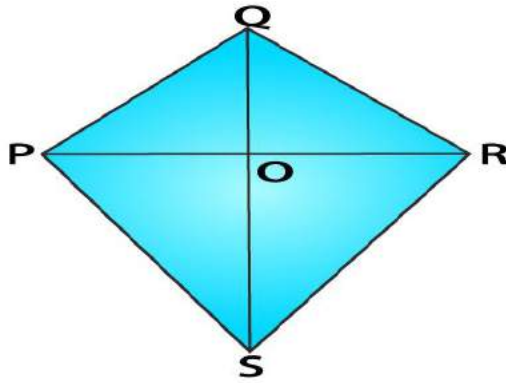
EXERCISE 4.5

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1. Draw a rough sketch of a quadrilateral PQRS. Draw its diagonals. Name them. Is the meeting point of the diagonals in the interior or exterior of the quadrilateral?

Solutions:

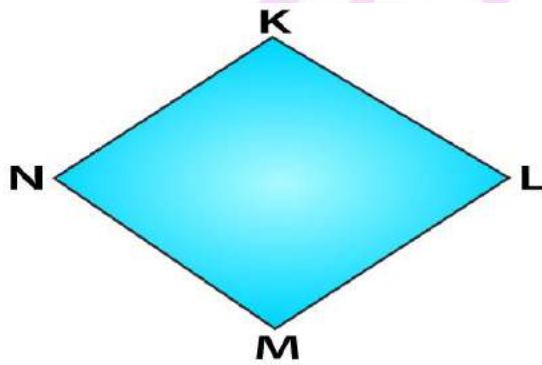
PR and QS are the diagonals. They meet at point O which is in the interior of the quadrilateral.



2. Draw a rough sketch of a quadrilateral KLMN. State,

- (a) two pairs of opposite sides,
- (b) two pairs of opposite angles,
- (c) two pairs of adjacent sides,
- (d) two pairs of adjacent angles.

Solutions:



- (a) Two pairs of opposite sides are $\overline{KL}, \overline{NM}$ and $\overline{KN}, \overline{ML}$
- (b) Two pairs of opposite angles are $\angle KLM, \angle KNM$ and $\angle LKN, \angle LMN$
- (c) Two pairs of adjacent sides are $\overline{KL}, \overline{KN}$ and $\overline{NM}, \overline{ML}$ or $\overline{KL}, \overline{LM}$ and $\overline{NM}, \overline{NK}$
- (d) Two pairs of adjacent angles are $\angle K, \angle L$ and $\angle M, \angle N$ or $\angle K, \angle L$ and $\angle L, \angle M$