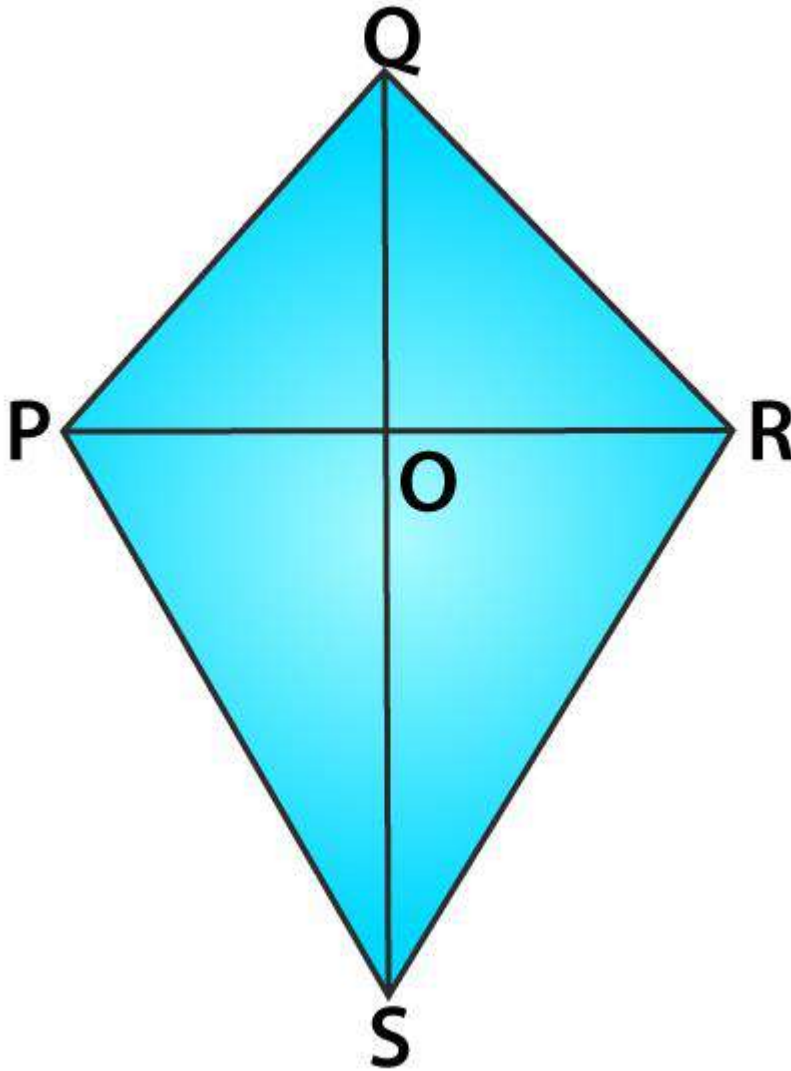


EXERCISE 4.5**PAGE NO: 82**

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.

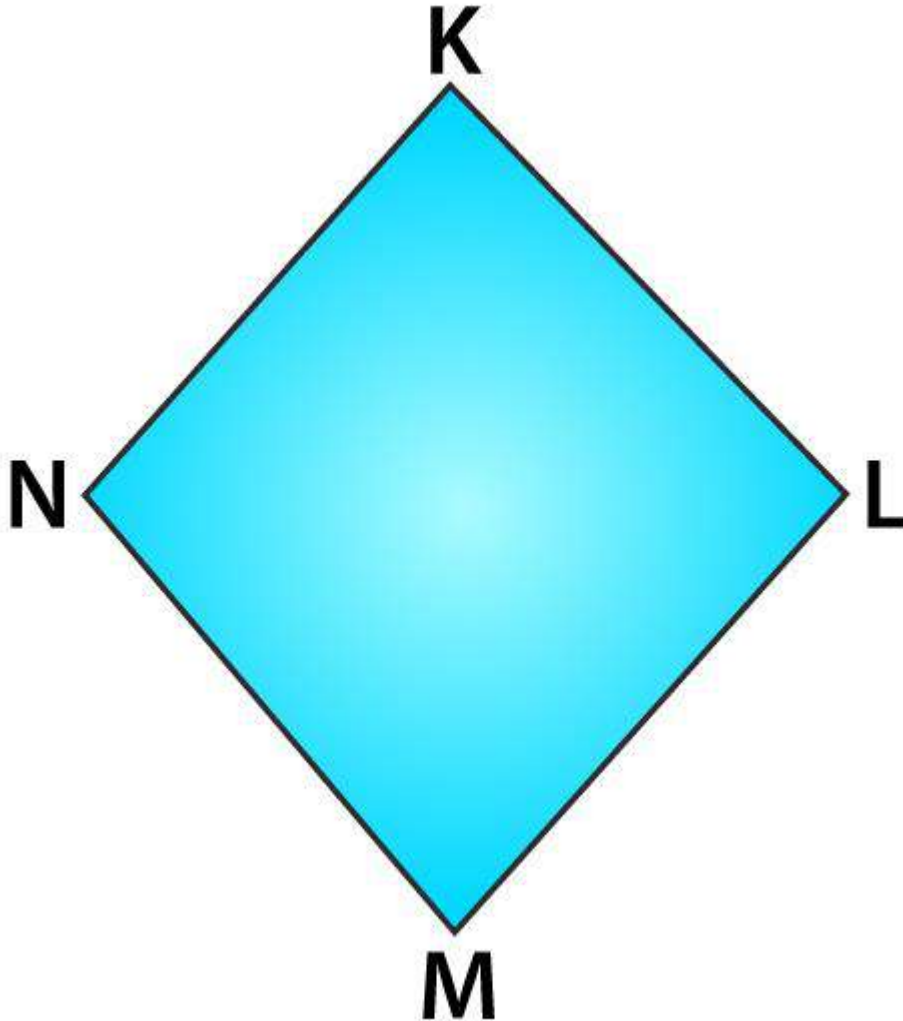


2. Draw a rough sketch of a quadrilateral KLMN. State,

- (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 $\angle L$, $\angle M$