

**BHARATIYA VIDYA BHAVAN'S V.M.PUBLIC SCHOOL
VADODARA**

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|---------------------|---------------------------------------|-----------------------------|
| Date : | CONSTRUCTION OF QUADRILATERALS | Subject: Mathematics |
| Class : VIII | Name of the student: | |

1) Fill in the blanks:

- a) A diagonal of a quadrilateral is a line segment that joins two opposite_____.
- b) Two sides of a quadrilateral which have a common end point are called its adjacent_____.
- c) Two angles of a quadrilateral with a common arm are called its _____ angles.
- d) Two angles of a quadrilateral that are not adjacent angles are known as ____angles.

2) Construct a quadrilateral ABCD with $AB = 4$ cm, $BC = 5$ cm, $CD = 6$ cm, $DA = 6$ cm and $AC = 7$ cm

3) Construct a parallelogram ABCD in which $AB = 5$ cm, $BC = 4$ cm, and $AC = 6$ cm.

4) Construct a rectangle ABCD with $AB = 7$ cm and $AC = 9$ cm

5) Construct a quadrilateral ABCD with $AB = 5$ cm, $BC = 4.5$ cm, $DA = 5.5$ cm, $BD = 5.5$ cm and $AC=7$ cm

6) Construct a square whose diagonal is of length 8 cm

7) Construct a kite PQRS, with $PQ = 5$ cm, $QR = 6$ cm and $PR = 9$ cm

8) Construct a rhombus ABCD whose diagonals are $AC = 7$ cm and $BD = 8$ cm

9) Construct a rectangle whose length is 7 cm and a diagonal measures 10 cm

10) Is it possible to construct a rhombus MNPQ where $MP=3$ cm and $NQ=2.5$ cm? Justify your answer.