

Chapter—4

Practical Geometry

1. How many measurements can determine a rectangle uniquely?
2. The lengths of the diagonals of a rhombus are 6 cm and 8 cm. What will be length of each side of rhombus?
3. Construct a quadrilateral ABCD in which $AB = 5.2$ cm, $BC = 4.8$ cm, $CD = 3.8$ cm $AD = 4.2$ cm and $AC = 6$ cm.
4. Construct a rhombus with side 5.8 cm and one of its angles equal to 60° .
5. Construct a quadrilateral ABCD in which $AB = 4.8$ cm, $BC = 5.2$ cm, $\angle A = 75^\circ$, $\angle B = 105^\circ$ and $\angle D = 80^\circ$
6. Construct a parallelogram EFGH in which $EF = 6$ cm, $FG = 4.5$ cm and $EG = 7$ cm.
7. Construct a square in which diagonal is 5.4 cm.
8. Which of the following statements are true and which are false?
 - (i) The diagonals of rhombus are equal.
 - (ii) Each square is a rectangle.
 - (iii) Each rhombus is a kite.
 - (iv) In a trapezium pair of opposite sides are parallel to each other.
 - (v) Diagonals of a rectangle are equal and bisect each other at right angle.