**CHAPTER 4 PRACTICAL GEOMETRY**

**CONCEPT IN BRIEF**

To construct a quadrilateral uniquely, it is necessary to have the knowledge of at least five of its parts:

* 4 sides and one diagonal
* 3 sides and both diagonals
* 3 sides and two included angles
* 2adjacent sides and 3 angles
* 4 sides and one angle

**LEVEL 1**

1. Construct a quadrilateral ABCD where AB =3.5 cm, BC= 4.2 cm, CD = 5.1 cm, DA = 5.5cm and AC = 6.8 cm.
2. Construct a quadrilateral ABCD where AB = 3.5 cm, BC = 3.8 cm, CD = 4.5 cm, DA = 4.5cm and BD = 5.6 cm.

**LEVEL 2**

1. construct a quadrilateral PQRS where PQ =3.6 cm, QR = 3.8 cm, RS = 4.3 cm , SP= 4.8cm and .
2. Construct quadrilateral ABCD where AB = 5.2 cm, BC = 6.3 cm, CD = 6.7 cm,  .
3. Construct a quadrilateral PQRS where PQ = 5.5 cm, QR = 6.5 cm, .

**LEVEL 3**

1. Construct a parallelogram ABCD where AB = 5.5 cm, BC= 4.8cm, CA= 6.2 cm.
2. Construct a rhombus whose diagonal are 12 cm and 5 cm. measure a side.
3. Construct a parallelogram ABCD where AB =4.2cm, BC =3.8cm and .
4. Construct a trapezium ABCD if AB = 5.2 cm, BC= 3.8 cm, CD = 3 cm,  and AB ǁ CD.

WORKSHEET

1. Construct a quadrilateral ABCD where AB =4.5 cm, BC= 5.5 cm, CD = 4 cm, DA = 6 cm and AC = 7 cm.
2. Construct a quadrilateral ABCD where AB = 4 cm, BC = 3 cm, AD = 2.5 cm, AC = 4.5cm and BD = 4 cm.
3. Construct quadrilateral ABCD where AB = 4 cm, BC = 5 cm, CD = 4.5 cm, 
4. Construct a quadrilateral PLAN where PL = 4 cm, LA = 6.56 cm, and .