CLASS 9

CONSTRUCTIONS

TO CONSTRUCT A TRIANGLE

EXERCISE

- **Q.1** Construct a triangle ABC in which AB = 5.8 cm, BC + CA = 8.4 cm and $\angle B = 60^{\circ}$.
- **Q.2** Construct a triangle ABC, in which BC = 3.8 cm, $\angle B = 45^{\circ}$ and AB + AC = 6.8 cm.
- **Q.3** Construct a triangle ABC in which base

AB = 5 cm, $\angle A$ = 30° and <u>A</u>C – BC = 2.5 cm.

- **Q.4** Construct a triangle ABC in which BC = 5.7 cm, $\angle B = 45^{\circ}$, AB AC = 3 cm.
- **Q.5** Construct a $\triangle ABC$ in which BC = 5.6 cm, AC A<u>B</u> = 1.6 cm and $\angle B$ = 45°. Justify your construction.
- **Q.6** Construct a righ angled triangle whose base is 4 cm and sum of its hpotenuse and other side is 6 cm.
- **Q.7** Construct an equilateral \triangle ABC, if its altitude is 4 cm.
- **Q.8** Construct a \triangle PQR in which base QR = 4 cm, \angle R = 30° and PR PQ = 1.1 cm.
- **Q.9** Construct a \triangle ABC in which base BC = 4.9 cm, AB AC = 1.3 cm and \angle B = 45°.
- **Q.10** Construct a triangle having given the base BC = 6.5 cm, sum of other two sides equal to 10 cm and one of the angles of base 60° i.e. $\angle B$.

ANSWER KEY



