

## Chapter 11

### Assignment of Construction

#### Question 1.

Draw two concentric circles of radii 3 cm and 5 cm. Construct a tangent to smaller circle from a point on the larger circle. Also measure its length

#### Question 2.

Construct a triangle ABC in which  $BC = 6$  cm,  $AB = 5$  cm and  $\angle ABC = 60^\circ$ . Then construct another triangle whose sides are  $\frac{3}{4}$  times the corresponding sides of  $\triangle ABC$ .

#### Question 3.

Draw a triangle ABC with  $BC = 7$  cm,  $\angle B = 45^\circ$  and  $\angle A = 105^\circ$ . Then construct a triangle whose sides are  $\frac{4}{5}$  times the corresponding sides of  $\triangle ABC$ .

#### Question 4.

Draw a circle of radius 4 cm. Draw two tangents to the circle inclined at an angle of  $60^\circ$  to each other.

#### Question 5.

Draw an isosceles  $\triangle ABC$  in which  $BC = 5.5$  cm and altitude  $AL = 3$  cm. Then construct another triangle whose sides are  $\frac{3}{4}$  of the corresponding sides of  $\triangle ABC$

#### Question 6.

Draw a triangle with sides 5 cm, 6 cm and 7 cm. Then draw another triangle whose  $\frac{4}{5}$  sides are  $y$  of the corresponding sides of first triangle.

#### Question 7.

Draw a  $\triangle ABC$  in which  $AB = 4$  cm,  $BC = 5$  cm and  $AC = 6$  cm. Then construct another triangle whose sides are  $\frac{3}{5}$  of the corresponding sides of  $\triangle ABC$

#### Question 8.

Draw a triangle with sides 4 cm, 5 cm and 6 cm. Then construct another triangle whose sides are  $\frac{2}{5}$  of the corresponding sides of given (first) triangle

#### Question 9.

Draw a line segment AB of length 7 cm. Taking A as centre, draw a circle of radius 3 cm and taking B as centre, draw another circle of radius 2 cm. Construct tangents to each circle from the centre of the other circle

**Question 10.**

Construct a tangent to a circle of radius 4 cm from a point on the concentric circle of radius 6 cm.