

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° 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.