



- 2. Let ABC be a right triangle in which AB = 6 cm, BC = 8 cm and  $\angle B = 90^{\circ}$ . BD is the perpendicular from B on AC. A circle through B, C, D is drawn. Construct the tangents from A to this circle.
- 3. Draw a right triangle in which the sides (other than hypotenuse) are of lengths 4 cm and 3 cm. Then construct another triangle whose sides are  $\frac{5}{3}$  times the corresponding sides of the given triangle.
- 4. Construct an isosceles triangle whose base is 8 cm and altitude 4 cm and then another triangle whose sides are 1.5 times the corresponding sides of the isosceles triangle.
- 5. Construct a triangle of sides 4 cm, 5 cm and 6 cm and then a triangle similar to it whose sides are  $\frac{2}{3}$  of the corresponding sides of the first triangle.
- 6. Draw a line segment of length 7.6 cm and divide it in the ratio 5 : 8 Measure the two parts.
- 7. Draw an isosceles triangle ABC in which AB=AC = 6 cm and BC=5 cm Construct a triangle PQR similar to  $\Delta ABC$  in which PQ = 8 cm, Also justify the construction.
- 8. Draw a circle of radius 4 cm. Construct a pair of tangents to it, the angle between which is 60°. Also justify the construction. Measure the distance between the centre of the circle and the point of intersection of tangents.

