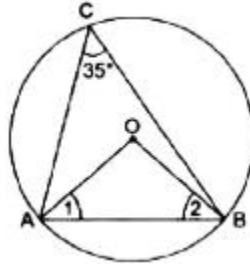


Total Marks: 25

Total Time: 60 mins

1. In the figure, if $\angle ACB = 35^\circ$, then find the measure of $\angle OAB$.

(1 Mark)



2. The diameter of circle is 3.8 cm. Find the length of its radius. **(2 marks)**

3. Two chords AB and AC of a circle subtends angles equal to 110° and 40° , respectively at the centre. Find $\angle BAC$, if AB and AC lie on the opposite sides of the centre. **(3 Marks)**

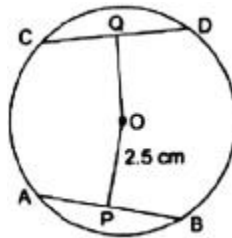
4. AB and CD are two parallel chords of a circle which are on opposite sides of the centre such that $AB = 24$ cm and $CD = 10$ cm and the distance between AB and CD is 17 cm. Find the radius of the circle. **(2 Marks)**

5. There is a circular park of radius 14 meters. Three friends Matthew, Bala and Lovleen are sitting at equal distance on its boundary each having a toy telephone (connected using strings) in their hands to talk each other. Find the length of the string between a pair of the telephones ? **(3 Marks)**

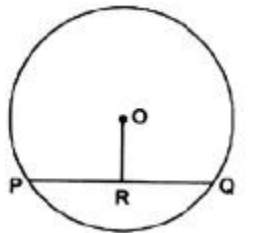
6. The radius of a circle is 17 cm. A chord of length 30 cm is drawn. Find the distance of the chord from the centre. **(2 Marks)**

7. Prove that, Equal chords of a circle (or of congruent circles) are equidistant from the centre (or centres).. **(4 Marks)**

8. In the figure, $\overline{AB} = \overline{CD}$. P and Q are the mid-points of AB and CD respectively. What is the length of OQ? **(3 Marks)**



9. In the figure, R is the midpoint of \overline{PQ} . What is the measure of $\angle ORQ$? **(2 Marks)**



11. The angle subtended by an Arc at the centre is double the angle subtended by it at any point on the remaining part of the circle. **(4 marks)**