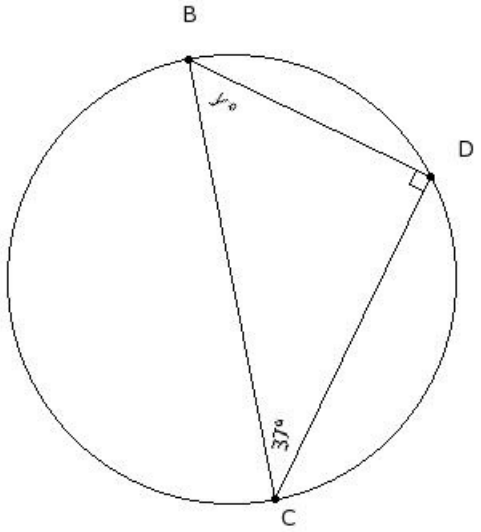
EduSahara™ Assignment

Name : Angle in a Semi-circle

Chapter : Circle

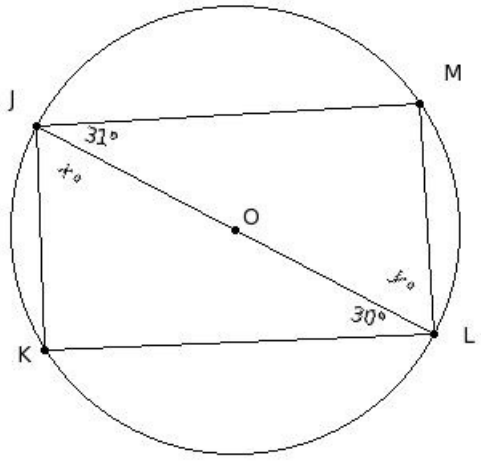
Grade : ICSE Grade VIII

1. Find the missing angle in the following figure?



(i) 58° (ii) 68° (iii) 63° (iv) 83° (v) 53°

2. O is the centre of the circle. If ∠JLK = 30° and ∠LJM = 31°, find x°, y°



(i) 69°, 70° (ii) 89°, 80° (iii) 59°, 60° (iv) 60°, 59° (v) 49°, 60°

3. An arc subtends 90° in its alternate segment. The arc is

(i) semi-circle (ii) minor segment (iii) quadrant (iv) major arc (v) major segment

4. The angle subtended by the semicircle at the centre is

(i) 195° (ii) 185° (iii) 180° (iv) 190° (v) 210°

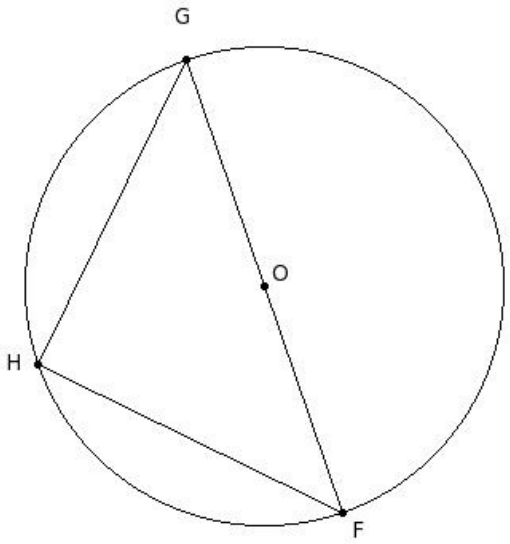
5. The angle subtended by the diameter at any point on the circle is

(i) 95° (ii) 90° (iii) 100° (iv) 120° (v) 105°

6. If the radius of the circumcircle is half the length of a side of the triangle, then the triangle is

(i) acute angled triangle (ii) obtuse angled triangle (iii) right angle triangle (iv) equilateral triangle

7. In the given figure FH & GH are equal length chords of the circle. Find ∠HFG



(i) 60° (ii) 75° (iii) 45° (iv) 50° (v) 55°

8. In triangle BCD, if a circle is drawn with CD as diameter and if it passes through B it is a

(i) right angle triangle (ii) obtuse angled triangle (iii) equilateral triangle (iv) acute angled triangle

Assignment Key

1) (v)	2) (iv)	3) (i)	4) (iii)	5) (ii)	6) (iii)
7) (iii)	8) (i)				