

Marks:15



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

SUBJECT : Algebra & Geometry

CLASS 8 Work sheet 17 Circles- 2

Date:25.4.2020

Answer all the following questions $(1 \times 15 = 15)$

MULTIPLE-CHOICE QUESTIONS (MCQ)

Choose the correct answer in each of the following:

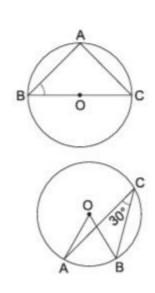
- 1. The radius of a circle is 13 cm and the length of one of its chords is 10 cm. The distance of the chord from the centre is
 - (a) 11.5 cm (b) 12 cm
 - (c) $\sqrt{69}$ cm (d) 23 cm
- 2. A chord is at a distance of 8 cm from the centre of a circle of radius 17 cm. The length of the chord is
 - (b) 12.5 cm (a) 25 cm
 - (c) 30 cm (d) 9 cm

3. In the given figure, BOC is a diameter of a circle and AB = AC. Then, $\angle ABC = ?$

- (a) 30° (b) 45°
- (d) 90° (c) 60°

4. In the given figure, O is the centre of a circle and $\angle ACB = 30^{\circ}$. Then, $\angle AOB = ?$

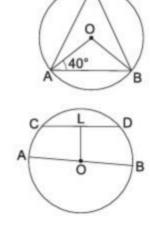
- (b) 15° (a) 30°
- (c) 60° (d) 90°



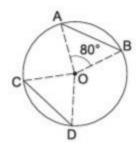
- **5.** In the given figure, *O* is the centre of a circle. If $\angle OAB = 40^\circ$ and *C* is a point on the circle then $\angle ACB = ?$
 - (a) 40° (b) 50°
 - (c) 80° (d) 100°
- 6. In the given figure, *AOB* is a diameter of a circle with centre *O* such that *AB* = 34 cm and *CD* is a chord of length 30 cm. Then, the distance of *CD* from *AB* is

(a) 8 cm	(b) 15 cm
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- (c) 18 cm (d) 6 cm
- 7. *AB* and *CD* are two equal chords of a circle with centre *O* such that $\angle AOB = 80^\circ$. Then, $\angle COD = ?$
 - (a) 100° (b) 80°
 - (c) 120° (d) 40°



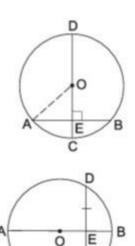
C



- 8. In the given figure, CD is the diameter of a circle with centre O and CD is perpendicular to chord AB. If AB = 12 cm and CE = 3 cm then radius of the circle is
 - (a) 6 cm (b) 9 cm
 - (c) 7.5 cm (d) 8 cm
- 9. In the given figure, O is the centre of a circle and diameter AB bisects the chord CD at a point E such that CE = ED = 8 cm and EB = 4 cm. The radius of the circle is

(a) 10 cm	(b) 12 cm
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(c) 6 cm (d) 8 cm



	If AB and CD are t and $AB = 10$ cm then		A E B	
(a) 5 cm		(b) 12.5 cm c F D		
(c) 15 cm		(d) 10 cm	$\mathbf{\cdot}$	
with centre C that $BC = OB$.	figure, AB is a chore and AB is produce A and AB is produce A and CO is joined a circle in D . If $\angle AC$	ed to C such nd produced p_{μ}	A B 25° C	
(a) 50°		(b) 75°		
(c) 90°		(d) 100°		
centre O and	figure, <i>AB</i> is a cho <i>BOC</i> is a diameter n then <i>AC</i> = ?			
(a) 9 cm		(b) 12 cm	×	
(c) 15 cm		(d) 7.5 cm		
 An equilatera the circle is 	l triangle of side 9 c	m is inscribed in a	circle. The radius of	
(a) 3 cm	(b) $3\sqrt{2}$ cm	(c) $3\sqrt{3}$ cm	(d) 6 cm	
14. The angle in a	semicircle measur	es		
(a) 45°	(b) 60°	(c) 90°	(d) 36°	
15. Angles in the	same segment of a	circle are		
(a) equal		(b) compleme	(b) complementary	
			(d) none of these	

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