

## CHAPTER-9 | : Circle

QUIZ  
PART-02**1. Equal chords in a circle subtend:**

- A) Equal angles at the center  
B) Unequal angles at the center  
C)  $90^\circ$  angles  
D)  $180^\circ$  angles (A)

**Explanation:** Equal chords subtend equal angles at the center.

**2. The angle at the center is  $80^\circ$ , the angle at the circumference will be:**

- A)  $80^\circ$   
B)  $40^\circ$   
C)  $160^\circ$   
D)  $90^\circ$  (B)

**Explanation:** The angle at the circumference is half of the angle at the center.

**3. What happens when two chords are equal in length?**

- A) They subtend equal angles at the center  
B) They subtend unequal angles at the center  
C) They are perpendicular  
D) They intersect at the center (A)

**Explanation:** Equal chords subtend equal angles at the center.

**4. If AB and CD are equal chords,  $\angle AOB = \angle COD$ , then what can be concluded?**

- A)  $AB = CD$   
B)  $\angle AOB = \angle COD$   
C) Both A and B  
D) None of the above (C)

**Explanation:** Equal chords subtend equal angles at the center.

**5. What is the angle at the center if the angle at the circumference is  $45^\circ$ ?**

- A)  $90^\circ$   
B)  $45^\circ$   
C)  $180^\circ$   
D)  $90^\circ$  (A)

**Explanation:** The angle at the center is double the angle at the circumference.

**6. In a circle, if the angle subtended by a chord at the center is  $90^\circ$ , the angle at the circumference is:**

- A)  $45^\circ$   
B)  $90^\circ$   
C)  $60^\circ$   
D)  $180^\circ$  (A)

**Explanation:** The angle at the circumference is half of the angle at the center.

**Q7. What is formed when two equal chords intersect in a circle?**

- A) Equal angles at the center  
B) Equal angles at the circumference  
C) Perpendicular bisectors  
D) Equal lengths (B)

**Explanation:** Equal chords intersecting form equal angles at the circumference.

**8. The angle at the center is  $100^\circ$ , the angle at the circumference will be:**

- A)  $50^\circ$   
B)  $100^\circ$   
C)  $200^\circ$   
D)  $80^\circ$  (A)

**Explanation:** The angle at the circumference is half of the angle at the center.

**Q9. The Midpoint Theorem relates to:**

- A) Circle properties  
B) Chord lengths  
C) Angles subtended by chords  
D) Parallelograms (C)

**Explanation:** The Midpoint Theorem involves angles subtended by chords.

**Q10. The angle subtended by a chord at the center is  $120^\circ$ . What is the angle at the circumference?**

- A)  $60^\circ$   
B)  $120^\circ$   
C)  $90^\circ$   
D)  $180^\circ$  (A)

**Explanation:** The angle at the circumference is half of the angle at the center.