

CENTRAL ANGLE OF A CIRCLE FORMULA

As the name suggests, the angle that is formed at the midpoint of a circle is the central angle. A central angle has its vertex at the midpoint of the circle and defines the length of an arc (a part of the circle's circumference).

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Q1: Which of the following angles is NOT a central angle?

- A: An angle is formed by two radii of the circle.
 - B: An angle is formed by two chords within the circle.
 - C: An angle is formed by a tangent line and a radius.
 - D: An angle is formed by two secant lines outside the circle.
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Q2: What is the sum of the central angles in a complete circle?

- A: 90 degrees
 - B: 180 degrees
 - C: 270 degrees
 - D: 360 degrees
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Q3: What is the sum of the central angles of a hexagon inscribed in a circle?

- A: 60 degrees
 - B: 120 degrees
 - C: 180 degrees
 - D: 360 degrees
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Q4: An angle that is formed by two chords that have a common endpoint on the circle is

- A: Central angle
 - B: Inscribed angle
 - C: Interior angle
 - D: Exterior angle
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Q5: An angle that is present inside the circumference of a circle is

- A: Central angle
 - B: Inscribed angle
 - C: Interior angle
 - D: Exterior angle
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Q6: An angle that is formed outside the circumference of a circle is

- A: Central angle
 - B: Inscribed angle
 - C: Interior angle
 - D: Exterior angle
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Q7: The measurement of a central angle is _____ proportional to the arc it obstructs on the circumference.

- A: Directly
 - B: Inversely
 - C: Not
 - D: None of the above
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Q8: Which theorem states the following: The angle formed at the midpoint of a circle is always twice the measurement of the angle obstructed by the arc on the circle's circumference?

- A: Central angle theorem
 - B: Inscribed angle theorem
 - C: Angle-Arc Theorem
 - D: None of the above
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Q9: Which theorem states the following: The inscribed angle is always half the measurement of the angle that obstructs the same arc.

- A: Central angle theorem
 - B: Inscribed angle theorem
 - C: Angle-Arc Theorem
 - D: None of the above
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Q10: Which theorem states the following: The measurement of a central angle is directly proportional to the length of the arc that is obstructed by it.

- A: Central angle theorem
 - B: Inscribed angle theorem
 - C: Angle-Arc Theorem
 - D: None of the above
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Answers

Q1: B - An angle is formed by two chords within the circle.

Q2: D - 360 degrees

Q3: D - 360 degrees

Q4: B - Inscribed angle

Q5: C - Interior angle

Q6: D - Exterior angle

Q7: A - Directly

Q8: A - Central angle theorem

Q9: B - Inscribed angle theorem

Q10: C - Angle-Arc Theorem