

Circle Chords and Angles Quiz

Grade Level: Grade 9 | **Date:** 2025-11-15 23:52:43

Instructions: Answer all questions. Show your work where applicable.

Question 1: In a given circle, if two chords are of equal length, what can be concluded about the angles they subtend at the center of the circle?

- A) The angles are always 90 degrees.
- B) The angles are equal.
- C) The angles are complementary (sum to 90 degrees).
- D) The angles are supplementary (sum to 180 degrees).

Answer Key

Question 1: B

Explanation: According to Theorem 9.1, equal chords of a circle subtend equal angles at the center. This is a fundamental property of circles.