

Quadrilateral Diagonals Quiz

Grade Level: Grade 8 | **Date:** 2025-11-15 20:52:54

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

Question 1: Which of the following quadrilaterals has diagonals that are equal in length AND bisect each other at a 90-degree angle?

- A) Rhombus
- B) Rectangle
- C) Parallelogram
- D) Square

Answer Key

Question 1: D) Square

Explanation: A square is the only quadrilateral among the options that has both properties: its diagonals are equal in length, and they bisect each other at a 90-degree angle. A rhombus has diagonals that bisect at 90 degrees but are not always equal. A rectangle has equal diagonals that bisect each other, but not always at 90 degrees. A parallelogram's diagonals only bisect each other.