

Quadrilateral Properties

Name: _____

Date: _____

1. Which statement is always true?
 - A. Rhombuses are squares.
 - B. Parallelograms are rectangles.
 - C. Rectangles are squares.
 - D. Squares are rectangles.

2. Which statement is true?
 - A. Every square is a rhombus.
 - B. Every rhombus is a square.
 - C. Every trapezoid is a parallelogram.
 - D. Every parallelogram is a rectangle.

3. Which statement is always true about a parallelogram?
 - A. Diagonals bisect the angles.
 - B. Diagonals are perpendicular.
 - C. Adjacent sides are congruent.
 - D. Diagonals bisect each other.

4. Which statement is true about an isosceles trapezoid?
 - A. Diagonals bisect the angles.
 - B. Diagonals are perpendicular.
 - C. Diagonals are equal in length.
 - D. Diagonals bisect each other.

5. All of the following figures must have congruent diagonals *except*
 - A. a rectangle
 - B. a square
 - C. an isosceles trapezoid
 - D. a parallelogram

6. If the diagonals of a quadrilateral do *not* bisect each other, then the quadrilateral could be a
 - A. rectangle
 - B. rhombus
 - C. square
 - D. trapezoid

7. Which statement is *always* true?
 - A. A square is a rhombus.
 - B. A parallelogram is a square.
 - C. A rhombus is a rectangle.
 - D. A rectangle is a rhombus.

8. A quadrilateral whose diagonals bisect each other and are perpendicular is a
 - A. rhombus
 - B. rectangle
 - C. trapezoid
 - D. parallelogram

9. Which statement is always true?

- A. A quadrilateral is a trapezoid.
- B. A rhombus is a square.
- C. A trapezoid is a parallelogram.
- D. A rectangle is a parallelogram.

10. Which statement would *never* be used to prove that a figure is a rhombus?

- A. The figure is a quadrilateral.
- B. The figure has a pair of equal adjacent sides.
- C. The figure is a parallelogram.
- D. The figure is a rectangle.

11. Given three distinct quadrilaterals, a square, a rectangle, and a rhombus, which quadrilaterals must have perpendicular diagonals?

- A. the rhombus, only
- B. the rectangle and the square
- C. the rhombus and the square
- D. the rectangle, the rhombus, and the square

12. Which quadrilateral is equiangular but not always equilateral?

- A. rectangle
- B. parallelogram
- C. rhombus
- D. square

13. In quadrilateral $PQRS$ the diagonals bisect each other. Which of the following statements are true?

- I. both pairs of opposite angles are congruent
- II. quadrilateral $PQRS$ is a square
- III. quadrilateral $PQRS$ is a rhombus

- A. I only
- B. III only
- C. I and II
- D. I,II and III

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1.
Answer: D
Objective: G.05A
2.
Answer: A
3.
Answer: D
Objective: G.05A
4.
Answer: C
Objective: G.05A
5.
Answer: D
6.
Answer: D
7.
Answer: A
8.
Answer: A
9.
Answer: D
10.
Answer: D
11.
Answer: C
12.
Answer: A
13.
Answer: D
Objective: G.CO.11