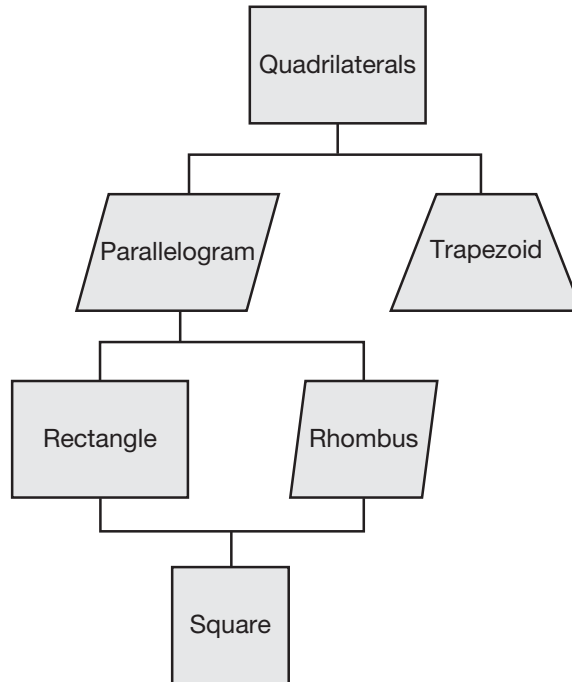


# Classifying Quadrilaterals

## How are special quadrilaterals related to each other?

This “family tree” shows how special quadrilaterals are related to each other.



Tell whether each statement is true or false.

1. All squares are rhombuses. \_\_\_\_\_
2. Every trapezoid is a rectangle. \_\_\_\_\_
3. Squares are special parallelograms. \_\_\_\_\_
4. All quadrilaterals are squares. \_\_\_\_\_
5. All rhombuses are rectangles. \_\_\_\_\_
6. Every trapezoid is a quadrilateral. \_\_\_\_\_
7. Rhombuses are special parallelograms. \_\_\_\_\_
8. All rectangles are quadrilaterals. \_\_\_\_\_

# Classifying Quadrilaterals

In 1–8, tell whether each statement is true or false. Remember, for a statement to be true it has to be true in EVERY circumstance.

1. A rectangle is a quadrilateral. \_\_\_\_\_
2. All parallelograms are trapezoids. \_\_\_\_\_
3. A quadrilateral is a square. \_\_\_\_\_
4. A quadrilateral is a trapezoid. \_\_\_\_\_
5. A rhombus is a rectangle. \_\_\_\_\_
6. A trapezoid is a parallelogram. \_\_\_\_\_
7. A square is a rectangle. \_\_\_\_\_
8. A rectangle is a quadrilateral. \_\_\_\_\_
9. Which shows the most likely side lengths for a parallelogram?  
**A** 9, 4, 9, 4      **B** 9, 9, 9, 4      **C** 4, 4, 4, 9      **D** 4, 9, 9, 6
10. Draw 3 different quadrilaterals with 2 pairs of parallel sides. What are the names of the special quadrilaterals you have drawn?

\_\_\_\_\_

11. A parallelogram has one side that is 9 millimeters and one side that is 13 millimeters. What is the perimeter of the parallelogram?

\_\_\_\_\_

12. **Writing to Explain** What characteristics help you tell the difference between a parallelogram and a trapezoid? Explain.

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