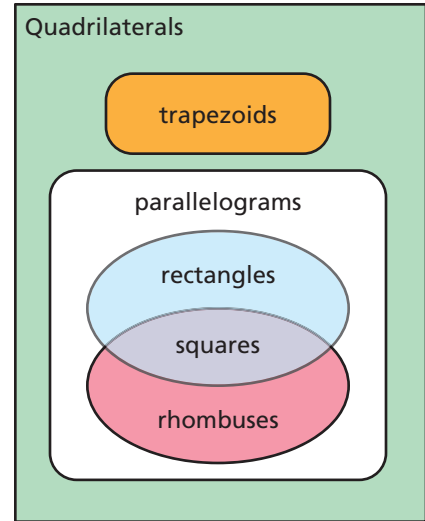


Key Concept and Vocabulary

Quadrilateral	Diagram
A <i>trapezoid</i> has exactly 1 pair of parallel sides.	
A <i>parallelogram</i> has 2 pairs of parallel sides.	
A <i>rectangle</i> is a parallelogram with 4 right angles.	
A <i>rhombus</i> is a parallelogram with 4 congruent sides.	
A <i>square</i> is a parallelogram with 4 right angles and 4 congruent sides.	

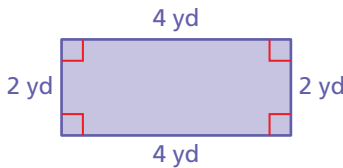


Visual Model

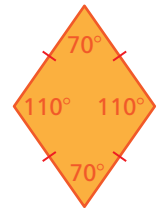


Skill Examples

1. The quadrilateral has 4 right angles. Opposite sides have the same length, but all four sides are not the same length. So, the quadrilateral is a rectangle.



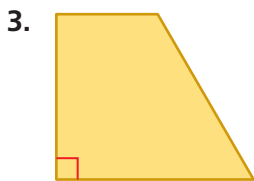
2. The quadrilateral has 0 right angles, 2 pairs of parallel sides, and four sides of the same length. So, the quadrilateral is a rhombus.



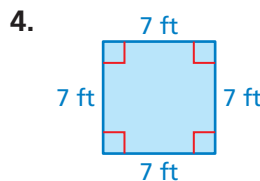
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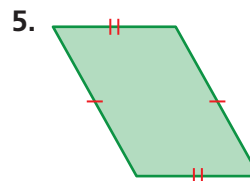
Classify the quadrilateral in as many ways as possible.



trapezoid



parallelogram, rectangle,
rhombus, square



parallelogram

6. **RHOMBUS** A quadrilateral has 4 right angles. Is this enough information to determine whether the quadrilateral is a rhombus? Explain. no; A rhombus has 4 congruent sides and you do not know if the quadrilateral has 4 congruent sides.