

NAME _____

Module 9 Characteristics of Geometric Shapes
Lesson 2 Quadrilaterals

Lesson Objectives

- Classify quadrilaterals.
- Use paper and physical models to determine the sum of the measures of interior angles of quadrilaterals.
- Find the missing measure of a quadrilateral.
- Compare quadrilaterals.

Subtopic 1 Types of Quadrilaterals

Quadrilateral

- A _____ polygon
- _____ sides
- Each side intersects at points called _____.

A quadrilateral has four _____. A quadrilateral has four _____.

A quadrilateral is named using _____ vertices.

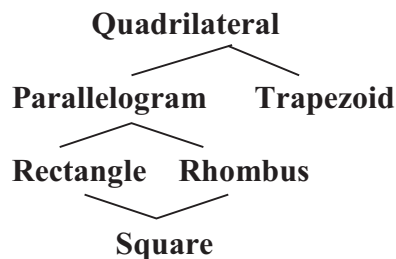
A parallelogram is a quadrilateral with two pairs of _____ sides.

A rectangle is a parallelogram with four _____ angles.

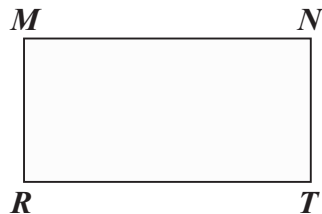
A _____ is a parallelogram with four congruent sides.

A square is a _____ with four right angles and four congruent sides.

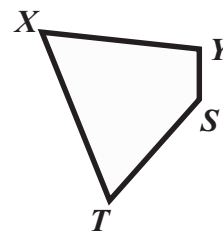
A trapezoid is a quadrilateral with exactly _____ pair of parallel sides.



- 1 Classify the figure in as many ways as possible. Then, name the figure two different ways.



- 2 Classify the figure on the right in as many ways as possible.



- 3 Give the most specific classification possible for each figure.



- 4 Tell whether each statement is true or false. Explain your answer.

- Every rectangle is a parallelogram.
- A square is never a trapezoid.
- All quadrilaterals are trapezoids.

Subtopic 2 **Angles of Quadrilaterals**

Quadrilateral Sum Property

The sum of the angle measures of a quadrilateral is _____.

Find the value of x .

5



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