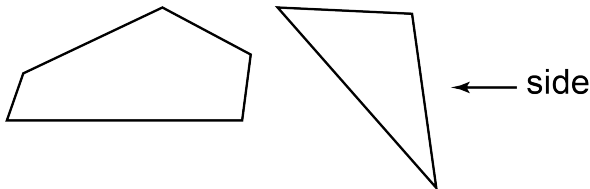
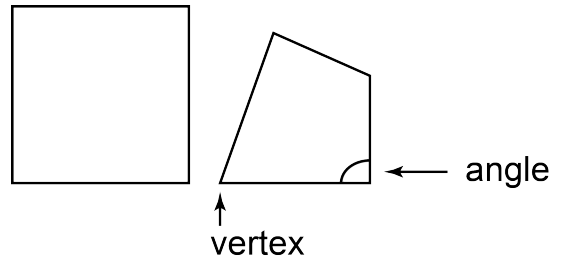


**Lesson****13.1****Reteach**

A **polygon** is a closed, two-dimensional shape with three or more sides.



A **quadrilateral** is a polygon with four sides. Quadrilaterals have four vertices and four angles.

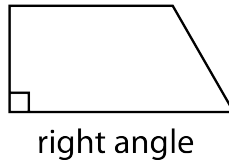


Quadrilaterals can have parallel sides and right angles.

**Parallel sides** are two sides that are always the same distance apart.

A **right angle** is an L-shaped angle.

The symbol  $\square$  shows a right angle.



right angle

**Example** Identify the number of right angles and pairs of parallel sides.

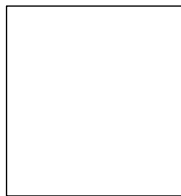


Right angles: 4

Parallel sides: 2

Identify the number of right angles and pairs of parallel sides.

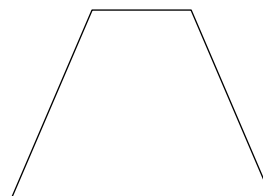
1.



Right angles: \_\_\_\_\_

Pairs of parallel sides: \_\_\_\_\_

2.



Right angles: \_\_\_\_\_

Pairs of parallel sides: \_\_\_\_\_

**Lesson**

**13.2**

**Reteach**

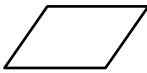
A quadrilateral has 4 sides and 4 angles. You can identify a quadrilateral using its sides and angles.

**Trapezoid**



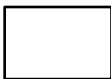
exactly 1 pair of parallel sides

**Parallelogram**



2 pairs of parallel sides

**Rectangle**



2 pairs of parallel sides  
4 right angles

**Rhombus**



2 pairs of parallel sides  
4 equal sides

**Square**



2 pairs of parallel sides  
4 equal sides  
4 right angles

**Example**

Circle all of the names for the quadrilateral.



**Step 1:** Count the pairs of parallel sides.  
There are 2 pairs of parallel sides.

**Step 2:** Count the number of equal sides.  
There are 4 equal sides.

**Step 3:** Count the number of right angles.  
There are 4 right angles.

**Step 4:** Circle quadrilateral names with these properties.

Trapezoid

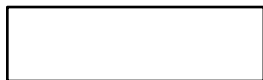
Rhombus

Square

Parallelogram

Circle all of the names for the quadrilateral.

1.



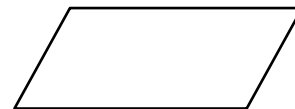
Rectangle

Square

Trapezoid

Parallelogram

2.



Rectangle

Parallelogram

Square

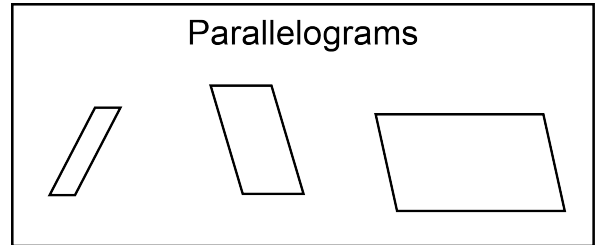
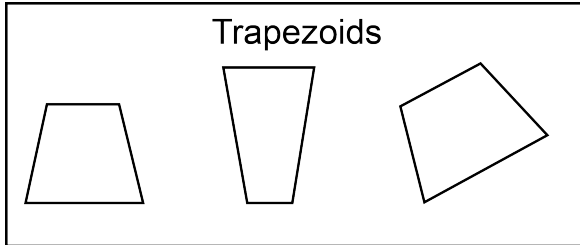
Rhombus

## Lesson

## 13.3

## Reteach

## Example



How are trapezoids and parallelograms alike?

**Think:** Do trapezoids and parallelograms have the same number of sides, angles, pairs of parallel sides, or equal sides?

A trapezoid has 4 sides.

A parallelogram has 4 sides.

A trapezoid has 4 angles.

A parallelogram has 4 angles.

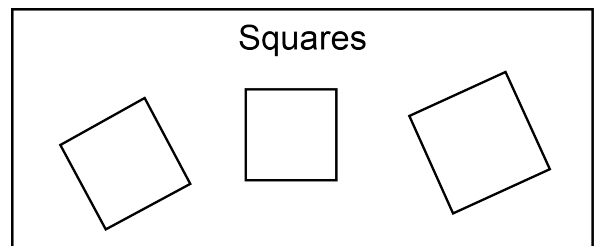
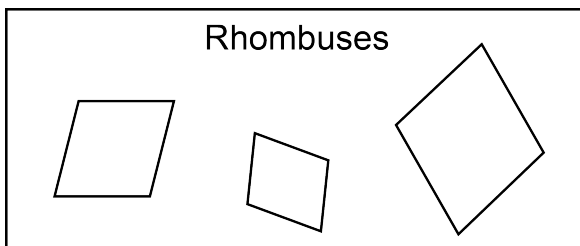
So, you can classify all trapezoids and parallelograms as quadrilaterals.

How are trapezoids and parallelograms different?

**Think:** Do trapezoids and parallelograms *not* have the same number of sides, angles, pairs of parallel sides, or equal sides?

A trapezoid has exactly one pair of parallel sides.

A parallelogram has two pairs of parallel sides.



1. How are rhombuses and squares alike? How are they different?

2. How are trapezoids and squares alike? How are they different?

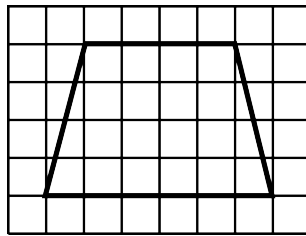
**Lesson**  
**13.4**

**Reteach**

**Example**

Draw a quadrilateral that has exactly one pair of parallel sides.  
Name the quadrilateral.

This shape has exactly one pair of parallel sides.

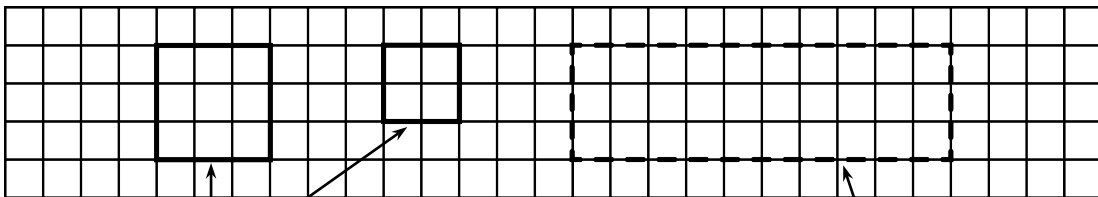


This shape has 4 angles.  
A quadrilateral has 4 angles.

This shape has 4 sides.  
A quadrilateral has 4 sides.

A trapezoid has 4 angles, 4 sides, and exactly one pair of parallel sides.  
So, this quadrilateral is a trapezoid.

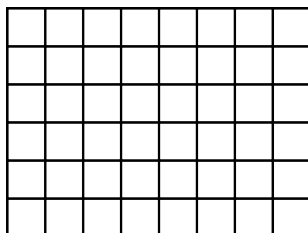
Below are two squares. Draw a quadrilateral that is *not* a square.  
Explain why it is not a square.



Squares have 2 pairs of parallel sides, 4 equal sides, and 4 right angles.

This is a rectangle. It is *not* a square because it does not have 4 equal sides.

1. Draw a quadrilateral that has two pairs of parallel sides.  
Name the quadrilateral.



2. Draw a quadrilateral that is *not* a rectangle. Explain why it is not a rectangle.

