MY Homework

Lesson 5
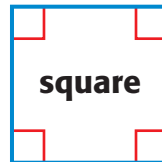
Shared Attributes of Quadrilaterals

Homework Helper

eHelp

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The attributes of the quadrilaterals that you learned about in Lesson 4 were used to create the table.

quadrilateral

trapezoid

parallelogram

rectangle

square

rhombus

Attribute	Quadrilateral(s)
Both pairs of opposite sides have the same length.	parallelogram, rectangle, square, rhombus
Both pairs of opposite sides are parallel.	parallelogram, rectangle, square, rhombus
Opposite angles are the same size.	parallelogram, rectangle, square, rhombus

Each quadrilateral has 4 sides and 4 angles.

Practice

1. Complete the attributes of a rectangle.

   Opposite sides are **parallel**.

   Opposite sides are the same **length**.

   The figure has **4** right angles.

2. Circle the quadrilateral(s) that have all the attributes of a rectangle.

   trapezoid   parallelogram   square   rhombus

Problem Solving

3. **Mathematical PRACTICE** 2 **Reason** State whether the following statement is *true* or *false*. If false, explain why. A trapezoid can also be classified as a parallelogram because it has parallel sides.
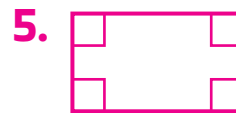
My window has 4 sides!

false; Sample answer: A trapezoid has exactly one pair of opposite parallel sides, while a parallelogram has both pairs of opposite parallel sides.

For Exercises 4–6, draw a quadrilateral that has the given attributes in the space provided.

4. opposite sides are parallel

5. four right angles

6. four sides of equal length

My Drawing!

Sample answers:

4.

5.

6.

Test Practice

7. Which statement about the figures shown below is true?

1   2   3   4

Ⓐ Figures 1 and 2 are parallelograms.

Ⓑ Figures 1 and 4 are quadrilaterals.

Ⓒ Figures 1 and 2 are rectangles.

Ⓓ Figures 1 and 3 are parallelograms.