KEY CONCEPT OVERVIEW

In Lessons 16 through 21, students learn to draw, analyze, and classify two-dimensional shapes. They do an in-depth analysis of **quadrilaterals** and then classify them based on their properties.

You can expect to see homework that asks your child to do the following:

- Review quadrilaterals (trapezoid, parallelogram, rhombus, rectangle, kite, and square) with your child. Ask her to define the different quadrilaterals and explain their similarities and differences.

- Hold a scavenger hunt to find objects around your home that contain quadrilateral shapes. Ask your child to classify each quadrilateral shape that he finds.

SAMPLE PROBLEM (From Lesson 20)

True or false. If the statement is false, rewrite it to make it true.

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<tr>
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<tbody>
<tr>
<td>a. Kites are never rhombuses.</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td><strong>Kites are sometimes rhombuses.</strong></td>
<td></td>
</tr>
<tr>
<td>b. All parallelograms are trapezoids.</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>c. All rectangles are squares.</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td><strong>All squares are rectangles.</strong></td>
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Additional sample problems with detailed answer steps are found in the *Eureka Math Homework Helpers* books. Learn more at GreatMinds.org.

HOW YOU CAN HELP AT HOME

- Review quadrilaterals (trapezoid, parallelogram, rhombus, rectangle, kite, and square) with your child. Ask her to define the different quadrilaterals and explain their similarities and differences.

- Hold a scavenger hunt to find objects around your home that contain quadrilateral shapes. Ask your child to classify each quadrilateral shape that he finds.

For more resources, visit » Eureka.support
Quadrilateral: A closed figure with four sides. For example, kites, parallelograms, rectangles, rhombuses, squares, and trapezoids are all quadrilaterals.

Kite: A quadrilateral with two pairs of adjacent sides that are equal in length; a kite is a rhombus if all side lengths are equal.

Parallelogram: A quadrilateral with opposite sides that are parallel and equal in length.

Rectangle: A parallelogram with four 90 degree angles.

Rhombus: A parallelogram with four sides of equal length.

Square: A rectangle with four sides of equal length.

Trapezoid: A quadrilateral with at least one pair of parallel sides.