Module 9 **Characteristics of Geometric Shapes**
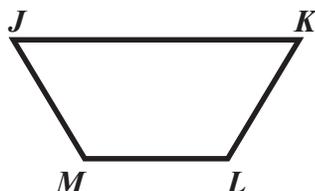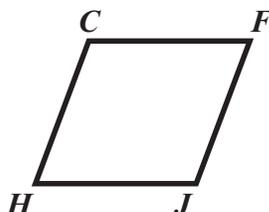**Lesson 2** **Quadrilaterals**

Set 1

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

Quadrilateral, Trapezoid
MJKL **or** *LMJK*

2 Classify the figure in as many ways as possible.

Quadrilateral, Parallelogram, Rhombus

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

- Every parallelogram is a square.

False: Some parallelograms are not squares.

- No rectangle is a trapezoid.

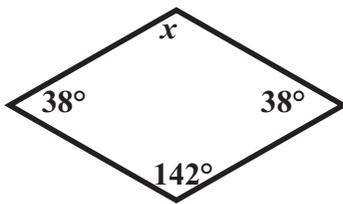   **True: Rectangles are parallelograms. They have two pairs of parallel sides, and trapezoids only have one.**

- Some parallelograms are rectangles.

   True: Not every parallelogram is a rectangle, but some are.

Set 2

Find the value of _x_.

1

$$38° + 38° + 142° + x = 360°$$
$$218° + x = 360°$$
$$x = 142°$$

2 Three angles of a quadrilateral are congruent, each with a measure of 95°. Find the measure of the fourth angle.

$$3(95°) = 285°$$

$$360° − 285° = 75°$$

The fourth angle measures 75°.