

EXAMPLE 1

A polygon has five sides. What kind of figure is it?

STRATEGY Match the description to the type of polygon.

A pentagon has five sides.

SOLUTION The figure is a pentagon.

EXAMPLE 2

Classify this figure.



STRATEGY Identify the features of the figure.

STEP 1 Is the figure a polygon? How many sides does it have?

The figure is a polygon with four sides.

It is a quadrilateral.

STEP 2 Are the opposite sides of the figure parallel?

Both pairs of opposite sides are parallel.

The figure is a parallelogram.

Is there another way to classify the figure?

STEP 3 Does the figure have right angles?

Yes.

The figure is a rectangle or square.

STEP 4 Are all the sides the same length?

No, so the figure is not a square.

SOLUTION The figure is a quadrilateral, a parallelogram, and a rectangle.

EXAMPLE 3

How many more sides does an octagon have than a triangle?

STRATEGY

Compare the number of sides in the figures.

STEP 1 Identify the number of sides in an octagon.
An octagon has 8 sides.

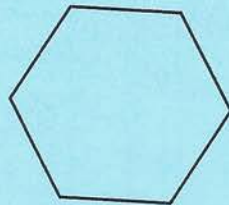
STEP 2 Identify the number of sides in a triangle.
A triangle has 3 sides.

STEP 3 Subtract.
 $8 - 3 = 5$

SOLUTION

An octagon has 5 more sides than a triangle.

Classify this figure.



Let's check it out.

How many sides does the figure have? _____

How many angles does the figure have? _____

The figure is a _____.

