## Classify Triangles

## I Can classify triangles.

## Florida's B.E.S.T.

Geometric Reasoning 5.GR.1.1
Mathematical Thinking \& Reasoning MTR.1.1, MTR.2.1, MTR.5.1

## UNLOCK the Problem <br> Real <br> World

If you look closely at Epcot Center's Spaceship Earth building in Orlando, Florida, you may see a pattern of triangles. The triangle outlined in the pattern at the right has 3 sides of the same length and 3 acute angles. What type of triangle is outlined?

Complete the sentence that describes each type of triangle.

Classify triangles by the lengths of their sides.

Classify triangles by the measures of their angles.

A right triangle has one $90^{\circ}$, or
angle.

$\qquad$


An isosceles triangle has
$\qquad$ sides of equal length.


An acute triangle has 3
$\qquad$ angles.

A scalene triangle has ___ sides of equal length. length.

$$
\text { , } 4 \mathrm{in.}
$$



An obtuse triangle has 1
$\qquad$ angle.


The type of triangle outlined in the pattern can be classified by the length of its sides as an $\qquad$ triangle.

The triangle can also be classified by the measures of its angles as an $\qquad$ triangle.

MTR Use patterns and 5.1 structure.

Is an equilateral triangle also a regular polygon? Explain.

## Activity

Classify triangle $A B C$ by the lengths of its sides and by the measures of its angles.

Materials $■$ centimeter ruler $■$ protractor

STEP 1 Measure the sides of the triangle using a centimeter ruler. Label each side with its length. Classify the triangle by the lengths of its sides.

STEP 2 Measure the angles of the triangle using a protractor. Label each angle with its measure. Classify the triangle by the measures of its angles.

- What type of triangle has 3 sides of different lengths?
- What is an angle called that is greater than $90^{\circ}$ and less than $180^{\circ}$ ?

Triangle $A B C$ is a $\qquad$ triangle.

Try This! Draw the type of triangle described by the lengths of its sides and by the measures of its angles.


