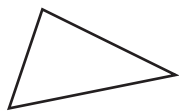# Triangles

You can classify triangles by the lengths of their sides.

Scalene Triangle
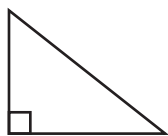no congruent sides

Isosceles Triangle
at least two congruent sides
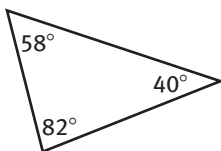
Equilateral Triangle
three congruent sides
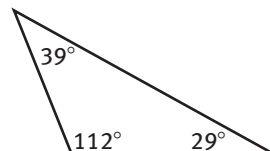
You can also classify triangles by their angle measures.

Right Triangle
one right angle

Acute Triangle
three acute angles

Obtuse Triangle
one obtuse angle

EXAMPLE

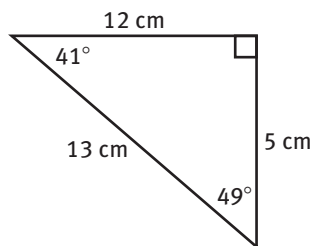Classify the triangle two ways.

Step 1: Classify the triangle by sides.
All the sides are different lengths. The triangle is scalene.

Step 2: Classify the triangle by angles.
There is one right angle and two acute angles.
The triangle is a right triangle.

Solution: The triangle is right and scalene.

Triangles (continued)

PRACTICE

Classify each triangle in two ways.

1.

8 m
60°
60°
8 m
8 m
60°

2.

19 in. 46° 19 in.
67° 67°
15 in.

3.

22°
32 m
18 m
29° 130°
12 m

4.

9 cm 45° 12.7 cm
45°
9 cm

5.

6 m 63°
12 cm
83° 34°
9 m

6.

18 cm 24°
133°
18 cm 44 cm
24°