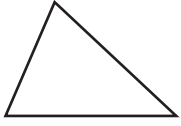
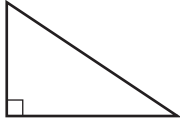
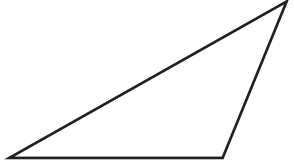


Lesson 3 Reteach

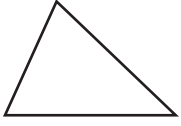
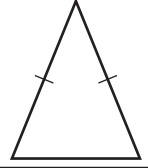
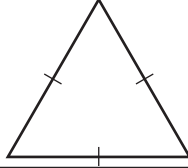
Triangles

Every triangle has at least two acute angles. One way you can classify a triangle is by using the third angle. Another way to classify triangles is by their sides. Sides with the same length are **congruent segments**.

Classify Triangles Using Angles

		
all acute angles	1 right angle	1 obtuse angle
acute triangle	right triangle	obtuse triangle

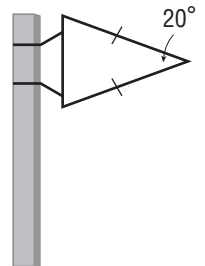
Classify Triangles Using Sides

		
no congruent sides	at least 2 congruent sides	3 congruent sides
scalene triangle	isosceles triangle	equilateral triangle

Example

The figure shows a triangular pennant tied to a pole. Classify the marked triangle by its angles and by its sides.

The triangle has three acute angles and two sides the same length. So, it is an acute, isosceles triangle.



Exercises

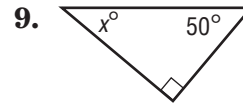
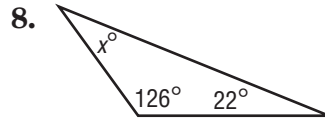
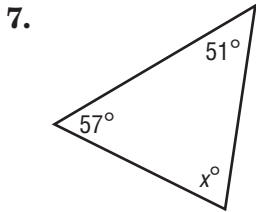
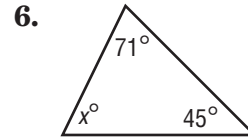
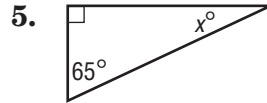
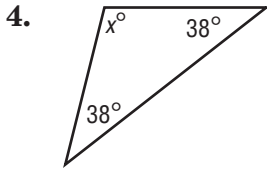
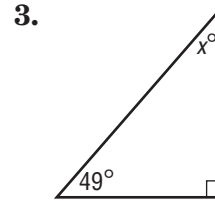
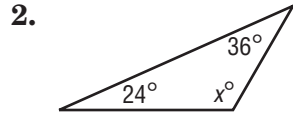
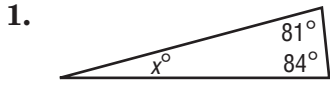
Draw a triangle that satisfies each set of conditions. Then classify each triangle.

1. a triangle with three acute angles and three congruent sides
2. a triangle with one right angle and no congruent sides

Lesson 3 Skills Practice

Triangles

Find the value of x . Then classify the triangle by its angles.



Draw a triangle that satisfies each set of conditions. Then classify each triangle.

10. a triangle with one obtuse angle and no congruent sides

11. a triangle with three acute angles and three congruent sides

12. a triangle with one right angle and two congruent sides