Name all the congruent corresponding parts. Then, write a congruence statement for the congruent triangles.

1.
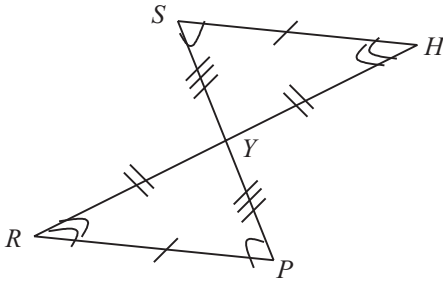
2.
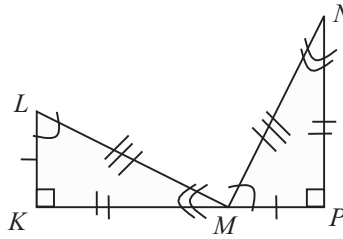
Draw △CAT ≅ △DOG. Then, answer the following:
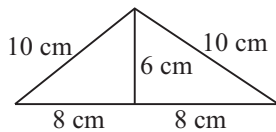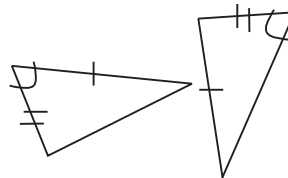
3.   Which side is congruent to $\overline{DG}$?

4.   Which side is congruent to $\overline{TA}$?

5.   Which angle is congruent to ∠T?

Determine whether the triangles are congruent. Write *yes* or *no*. If yes, state the rule of congruence.

6.

7.

8.

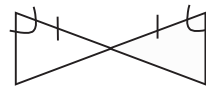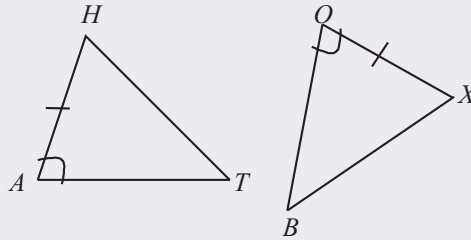**9.**

Journal

1. Explain why two congruent triangles will have the same perimeter. Explain why two triangles with the same perimeter are not necessarily congruent.

2. Look at the triangles below. Name one more pair of corresponding parts that needs to be congruent for the triangles to be congruent. Is there another pair? Explain.

3. Describe the three ways to prove triangles congruent that involve showing fewer than all six corresponding parts congruent.
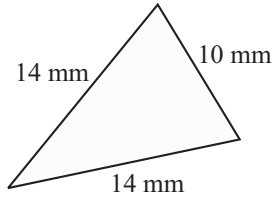
Cumulative Review

1. $\angle A$ and $\angle B$ are supplementary. Find $m\angle B$ if $m\angle A = 85°$.

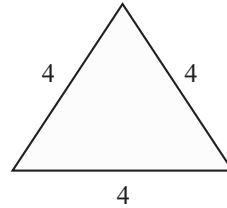2. $\angle C$ and $\angle D$ are vertical angles. Find $m\angle C$ if $m\angle D = 115°$.

Module 8   Points, Lines, Angles, and Triangles
Lesson 5   Congruent Triangles

Classify the triangle by its sides.

3.

14 mm
10 mm
14 mm

4.

4   4
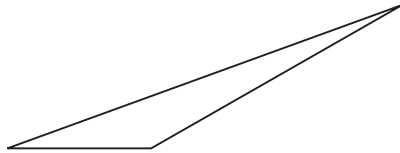4
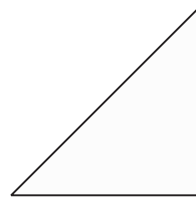
Classify the triangle by its angles.

5.

6.

7.   One of the acute angles in a right triangle measures 63°. What is the measure of the
      other acute angle?

8.   Use a protractor to draw an angle that measures 114°.

Additional Work Area