## **Reteaching 4-1**

**Congruent Figures and Corresponding Parts** 

**OBJECTIVE:** Recognizing congruent figures and

**MATERIALS:** None

their corresponding parts

## Example

 $\triangle ABC \cong \triangle XYZ$ . Find  $m \angle A$ .

Because the triangles are congruent, all corresponding parts are congruent.

Sides: 
$$\overline{AB} \cong \overline{XY}$$
,  $\overline{BC} \cong \overline{YZ}$ ,  $\overline{AC} \cong \overline{XZ}$ 

Angles: 
$$\angle A \cong \angle X$$
,  $\angle B \cong \angle Y$ ,  $\angle C \cong \angle Z$ 

Because  $\angle B \cong \angle Y$ ,  $m \angle B \cong 37$ .

Use the Triangle Angle-Sum Theorem to find  $m \angle A$ .

$$m \angle A + m \angle B + m \angle C = 180$$

$$m \angle A + 37 + 63 = 180$$

$$m \angle A + 100 = 180$$

$$m \angle A = 80$$



Match each triangle in the first column with a congruent triangle in the second column.

1.



2.



3.



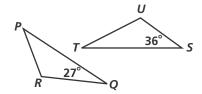






Find the measure of the indicated angle.

**4.**  $\triangle PQR \cong \triangle STU$ . Find  $m \angle U$ .



**5.**  $EFGH \cong JKLM$ . Find  $m \angle M$ .

