Vocabulary Check

1. What transformations can be used to show two figures are congruent? (Lesson 1)

   translations, reflections, and rotations
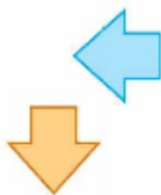
2. List two attributes of two congruent polygons. (Lesson 2)

   Sample answer: corresponding sides are the same length and corresponding

   angles have the same measure.
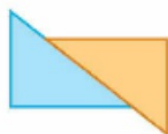
Skills Check and Problem Solving

Determine if the two figures are congruent by using transformations. Explain your reasoning. (Lesson 1)

3.

congruent; A rotation
followed by a translation
maps the blue figure onto
the gold figure.

4.

congruent; A rotation
followed by a translation
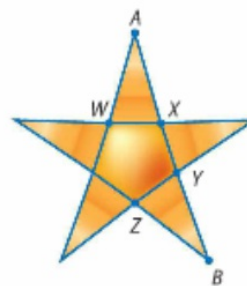**maps the blue figure onto**
the gold figure.

5.

not congruent; No
transformation will map
one onto the other.

6. Jordan is creating the logo shown using a pentagon and five congruent triangles. Triangle WAX is congruent to triangle YBZ. Describe the transformations that map △WAX onto △YBZ. If WX measures 5 inches, what is the length of YZ? (Lesson 2)

   Sample answer: a rotation about X followed by a translation; 5 in.

7. **CCSS** **Persevere with Problems** Trapezoid MNOP is congruent to trapezoid QROP. Which transformation maps MNOP onto QROP? (Lesson 2)

   reflection