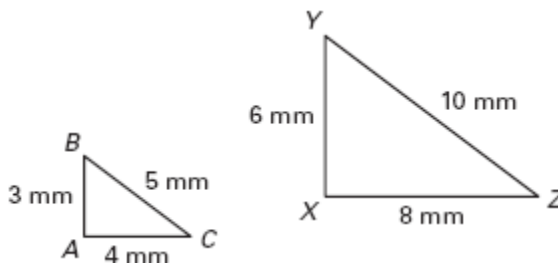**10.5A Similar and Congruent Polygons**   Name _____

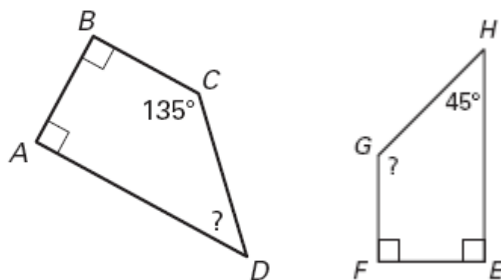**Complete the statement.**

1. If two polygons are similar, then their corresponding _____ are congruent.

2. If two polygons are congruent, then their corresponding _____

   and _____ are congruent.

In Exercises 3–4, use the diagram and the fact that ΔABC ~ ΔXYZ.

3. Name the corresponding **angles**.   4. Name the corresponding **sides**.

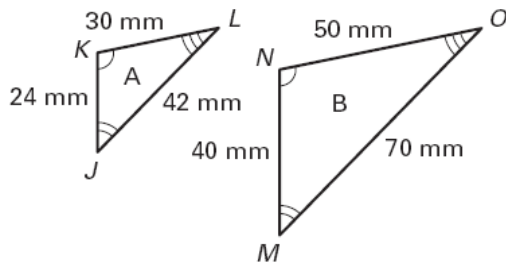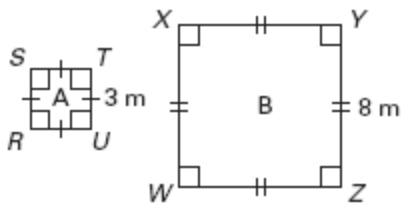**In Exercises 5–8, use the diagram and the fact that ABCD ≅ EFGH.**

5. Name the corresponding **angles**.   7. Name the corresponding **sides**.

6. Find m∠ADC.   8. Find m∠FGH.

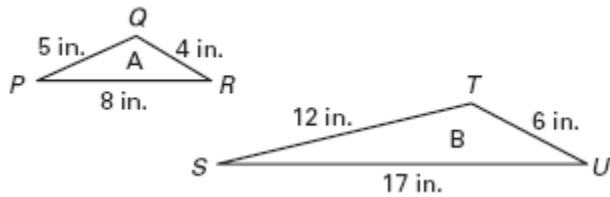**Tell whether the two polygons are similar (yes or no) and <u>show a proportion</u> to prove your answer.**

9.

10.

11.

12.