

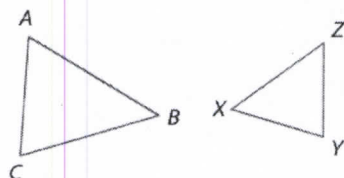
Name: _____

7.2 Practice Work

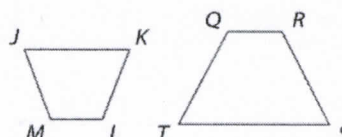
Check Your Understanding

Example 1 List all pairs of congruent angles, and write a proportion that relates the corresponding sides for each pair of similar polygons.

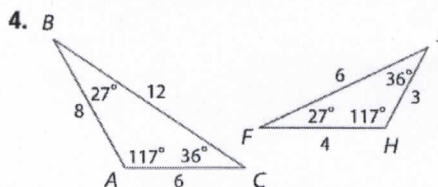
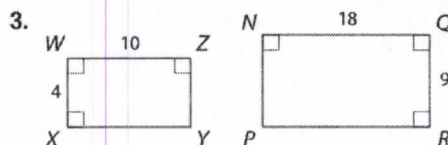
1. $\triangle ABC \sim \triangle ZYX$



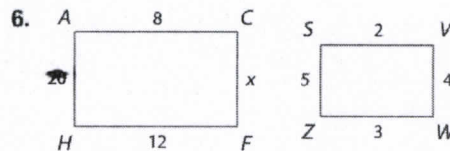
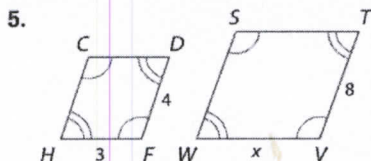
2. $JKLM \sim TSRQ$



Example 2 Determine whether each pair of figures is similar. If so, write the similarity statement and scale factor. If not, explain your reasoning.



Example 3 Each pair of polygons is similar. Find the value of x .



Example 4 7. **DESIGN** On the blueprint of the apartment shown, the balcony measures 1 inch wide by 1.75 inches long. If the actual length of the balcony is 7 feet, what is the perimeter of the balcony?

