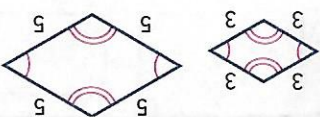


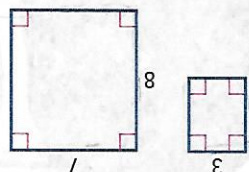
Independent Practice

Determine whether each pair of polygons is similar. Explain. (Example 1)



yes,

2.

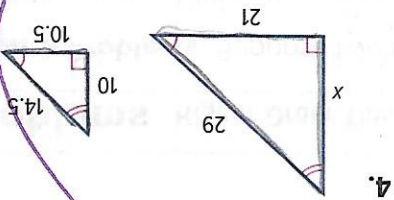


yes,

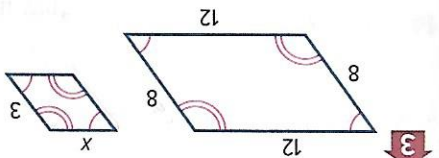
3.

Show your work.

Each pair of polygons is similar. Determine the transformations that map one figure onto the other. Then find the missing side measures. (Example 2)

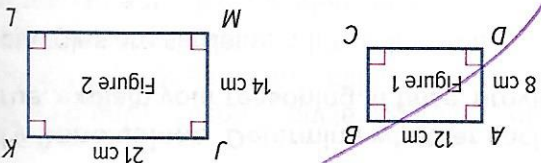


4.



5. **MP Persevere with Problems** The figures at the right are similar.

a. Find the area of both figures.



b. Compare the scale factor of the side lengths and the ratio of the areas.

6. **STEM** The scale factor from the model of a human inner ear to the actual ear is 55:2. If one of the bones of the model is 8.25 centimeters long, how long is the actual bone in a human ear?