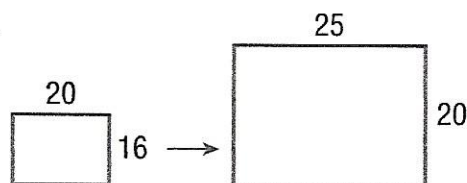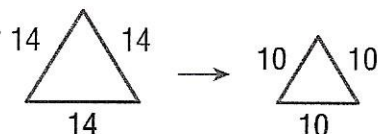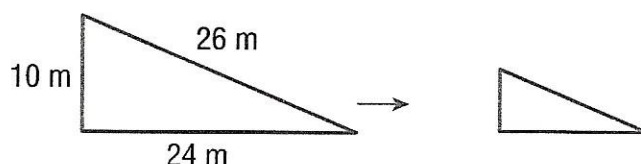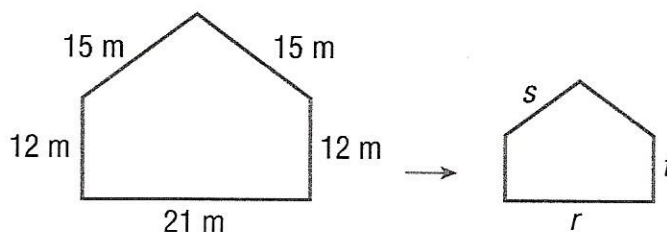# 7.5 Exercises

Give the scale factor.

1.

2.

3. A document that measures 28 centimeters by 20 centimeters is enlarged by a scale factor of $\frac{3}{2}$. What are the dimensions of the enlarged document?

4. The scale factor of the two similar triangles is $\frac{1}{2}$. What are the dimensions of the smaller triangle?

5. The scale of a map is 1 inch $=$ 10 miles. On the map, two towns are 3.5 inches apart. How far apart are they actually?

6. The scale of a map is 1 centimeter $=$ 5 kilometers. What length on the map would a road be that is 12.5 kilometers long?

7. The scale factor of two similar figures is 4. If the smaller rectangle has an area of 2 square feet, what is the area of the larger figure?

8. The scale factor of the two similar pentagons is $\frac{2}{3}$. Find the lengths of r, s, and t.

9. The scale factor of two similar solids is 5. What is the ratio of the volumes?