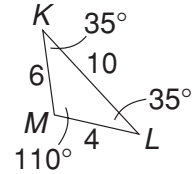
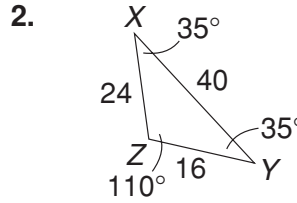
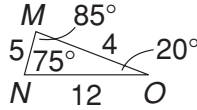
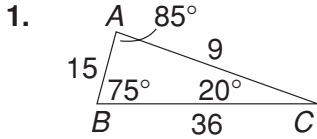


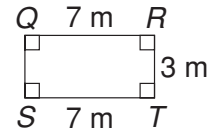
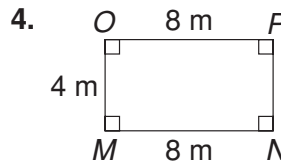
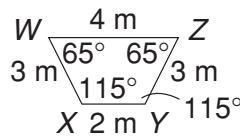
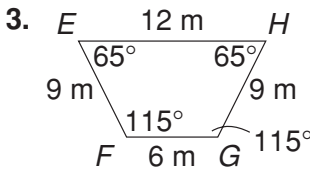
CHAPTER
5

At-Home Practice
Proportions in Geometry

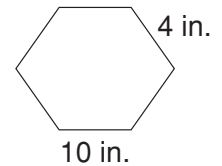
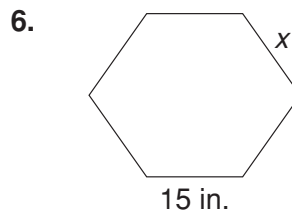
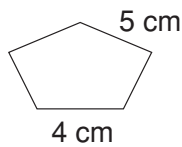
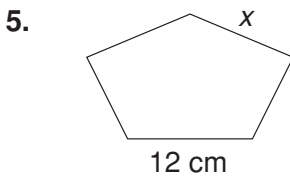
Tell whether the triangles are similar.



Tell whether the figures are similar.



Find the unknown length in each pair of similar figures.



Identify the scale factor.

7.

	Car	Model
length (in.)	102	6

Scale Factor = _____

Answers: 1. not similar 2. similar 3. similar 4. not similar 5. $x = 15$ cm 6. $x = 6$ in. 7. $\frac{1}{17}$

CHAPTER

5

Family Fun

Scale It Down!

The Washington Monument is the tallest all-masonry tower in the world. It was designed by Robert Mills in 1848. When Mills died in 1855, George P. Marsh took over the project.

Marsh suggested that the projected height of 600 feet be reduced to the standard Egyptian proportions of *ten times the base to the height*. The base of the monument is 55 feet wide.

What is the height? _____.

Finally, Marsh proposed that a pyramidal cap of aluminum top this great monument. The project was completed in 1885.

Directions

- Make a scale drawing of the Washington monument in the space provided. Determine your scale factor and label your drawing.
- Use your drawing to create a scale model. Use a variety of materials such as modeling clay, craft sticks, milk cartons, blocks, etc.
- Investigate other famous monuments or structures in order to create another scale model.

Scale Drawing of the Washington Monument

Scale Factor _____

Answer: 550 ft