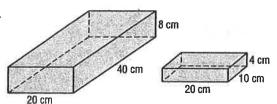
13-4

Skills Practice

Congruent and Similar Solids

Determine whether each pair of solids are similar, congruent, or neither.

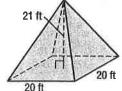
1.



similar > 1:2

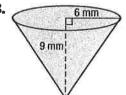
2.

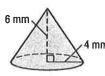




Neither

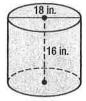
3.

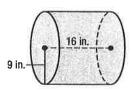




similar > 2:3

4.

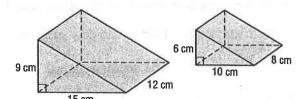




congruent

For Exercises 5–8, refer to the two similar prisms.

5. Find the scale factor of the two prisms. $\frac{3}{3}$



- **6.** Find the ratio of the surface areas.
- 7. Find the ratio of the volumes. 8/27
- 8. Suppose the volume of the larger prism is 810 cubic centimeters. Find the volume of the smaller prism.

$$\frac{8}{27} = \frac{x}{810}$$
 240cm³

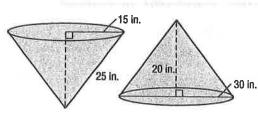
13-4

Practice

Congruent and Similar Solids

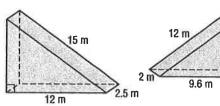
Determine whether each pair of solids are similar, congruent, or neither.

1.



congruent

2.



Similar > 4/5

3.





Neither

4.





Similar -> 3/5

For Exercises 5-8, refer to the two similar prisms.

- 5. Find the scale factor of the two prisms.
- 6. Find the ratio of the surface areas.
- 7. Find the ratio of the volumes. $\frac{27}{125}$
- 8. Suppose the surface area of the larger prism is 2560 square meters. Find the surface area of the smaller prism. $\frac{9}{25} = \frac{\chi}{2510} = \frac{\chi}{25100} =$
- 9. MINIATURES Frank Lloyd Wright designed every aspect of the Imperial Hotel in Tokyo, including the chairs. The dimensions of a miniature Imperial Hotel chair are 6.25 inches × 3 inches × 2.5 inches. If the scale of the replica is 1:6, what are the dimensions of the original chair?

Lesson 13-4

20 m