

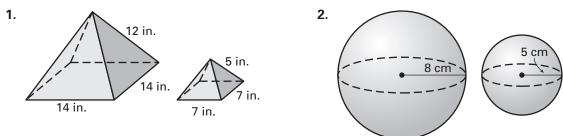
- **10.** The height of the actual water tower is 32 feet. What is the surface area of your scale model? Do not include the bottom base.
- **11.** Find the volume of the actual water tower.
- **12.** Use your result from Exercise 11 to find the volume of the scale model.





LESSON Name Practice B For use with pages 766–772

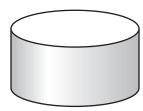
Decide whether the solids are similar. If so, determine the scale factor.



The solid is similar to a larger solid with the given scale factor. Find the surface area S and volume V of the larger solid.

 $S = 208 \pi \, \text{in.}^2$ $V = 320\pi \, \text{in.}^3$

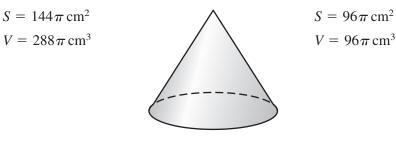
3. Scale factor 1:2



5. Scale factor: 2:3

6. Scale factor 3:4

4. Scale factor: 1:3



In Exercises 7–12, you and your friends decide to make a scale model of the water tower in your town.

 $S = 398 \text{ in}^2$

 $V = 495 \text{ in.}^3$