

Find the volume of each cylinder. Round your answer to the nearest tenth if necessary. Use 3.14 for  $\pi$ . Show your work by filling in the blanks with values from the diagrams. The first one is done for you.



Find the volume of each cylinder. Round your answer to the nearest tenth if necessary. Use 3.14 for  $\pi$ . The first one is done for you.



#### Solve. The first one is done for you.

5. A can of beans is 4.5 inches high and has a diameter of 3 inches Find the volume of the can to the nearest tenth of a unit. Use 3.14 for  $\pi$ .

#### 31.8 in<sup>3</sup>

6. A telephone pole is 30 feet tall with a diameter of 12 inches. Jacob is making a replica of a telephone pole and wants to fill it with sand to help it stand freely. Find the volume of his model, which has a height of 30 inches and a diameter of 1 inch, to the nearest tenth of a unit. Use 3.14 for  $\pi$ .

23.6 inches cubed



## **Volume of Cones**

### Practice and Problem Solving: D

Find the volume of each cone. Round your answer to the nearest tenth if necessary. Use 3.14 for  $\pi$ . Show your work by filling in the blanks with values from the diagrams. The first one is done for you.



#### Find the volume of each cone. Round your answer to the nearest tenth if necessary. Use 3.14 for $\pi$ . The first one is done for you.



#### Solve. The first one is done for you.

5. A cone has a diameter of 4 cm and a height of 11 cm. What is the volume of the cone to the nearest tenth? Use 3.14 for  $\pi$ .

46.1 cm<sup>3</sup>

6. A cloth pastry bag is shaped like a cone. It has a radius of 1.5 inches and a height of 8.5 inches. What is the volume of the pastry bag to the nearest tenth? Use 3.14 for  $\pi$ .

20 inches cubed



# Volume of Spheres

Practice and Problem Solving: D

Find the volume of each sphere. Round your answer to the nearest tenth if necessary. Use 3.14 for  $\pi$ . Show your work by filling in the blanks with values from the diagrams. The first one is done for you.



Find the volume of each sphere. Round your answer to the nearest tenth if necessary. Use 3.14 for  $\pi$ . The first one is done for you.



#### Solve. The first one is done for you.

5. What is the volume to the nearest tenth of a spherical scoop of frozen vogurt with a diameter of 5.6 cm? Use 3.14 for  $\pi$ .

#### 91.9 cm<sup>3</sup>

6. Mike makes homemade apple lollipops. Each lollipop has a diameter of 2 in. What is the volume of the lollipop to the nearest tenth? Use 3.14 for  $\pi$ .

4.2 inches cubed