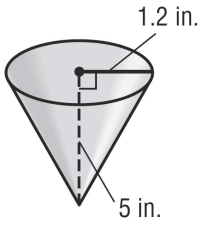
Lesson 2 Problem-Solving Practice

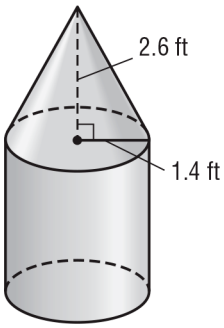
Volume of Cones

1. Determine the volume of the ice cream cone shown below. Round to the nearest tenth.



2. Lecretia uses a small funnel as shown below to fill her salt shaker. Determine the volume of the funnel. Round to the nearest tenth.

3. The top of the stone posts at the entry to an estate are in the shape of a cone as shown below. Determine the volume of stone needed to make the top of the post. Round to the nearest tenth.



4. Marta bought a paperweight in the shape of a cone. The radius was 10 centimeters and the height 9 centimeters. Determine the volume. Round to the nearest tenth.

5. A lampshade is in the shape of a cone. The diameter is 5 inches and the height 6.5 inches. Determine the volume. Round to the nearest tenth.

6. A piece of candy is in the shape of a cone. The height of the candy is 2 centimeters and the diameter is 1 centimeter. Determine the volume. Round to the nearest tenth.

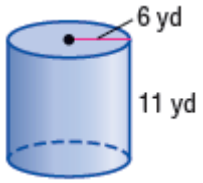
NAME _____ DATE _____ PERIOD _____

Lesson 1 Extra Practice

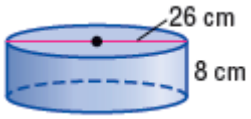
Volume of Cylinders

Determine the volume of each cylinder. Round to the nearest tenth.

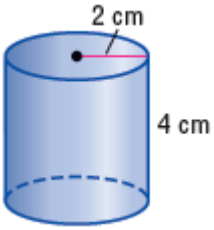
1.



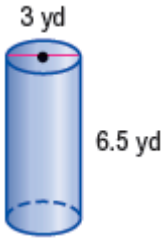
2.



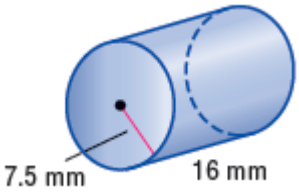
3.



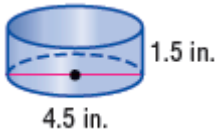
4.



5.



6.



7. radius = 6 in.
height = 3 in.

8. radius = 8 ft
height = 10 ft

9. radius = 6 km
height = 12 km

10. radius = 8.5 cm
height = 3 cm

11. diameter = 16 yd
height = 4.5 yd

12. diameter = 3.5 mm
height = 2.5 mm

13. radius = 40.5 m

height = 65.1 m

14. radius = 0.5 cm

height = 1.6 cm

15. diameter = $8\frac{3}{4}$ in.

height = $5\frac{1}{2}$ in.