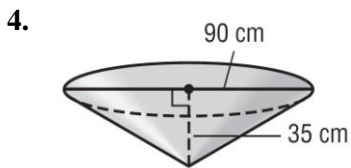# Lesson 2 Skills Practice

Volume of Cones

Find the volume of each cone. Round to the nearest tenth.

1.
2 ft

7 ft

2.
10 mm

9 mm

3.
2 ft

14 ft

4.
90 cm

35 cm
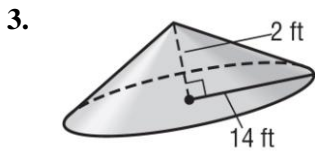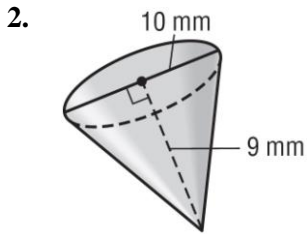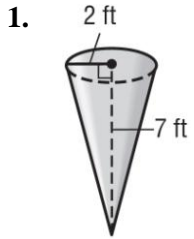
5. diameter: 10 centimeters; height: 14 centimeters

6. radius: 8.7 feet; height: 16 feet

7. height: 34 centimeters; diameter: 6 centimeters
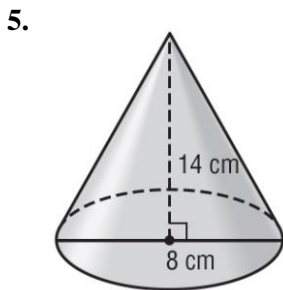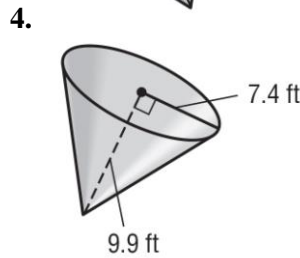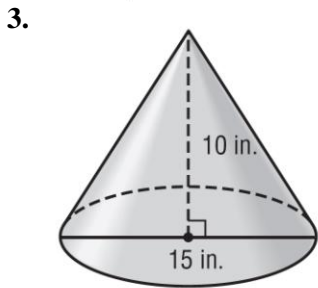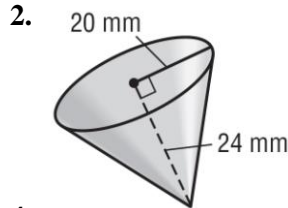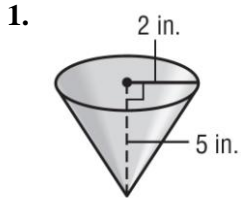
8. **FUNNEL** A funnel is in the shape of a cone. The radius is 2 inches and the height is 4.6 inches. Find the volume of the funnel. Round to the nearest tenth.

Lesson 2 Homework Practice

Volume of Cones

Find the volume of each cone. Round to the nearest tenth.

1.

2 in.

5 in.

2.

20 mm

24 mm

3.

10 in.

15 in.

4.

7.4 ft

9.9 ft

5.

14 cm

8 cm

6.

20 in.

20 in.

7.

24 in.

16 in.

8.

300 mm

300 mm
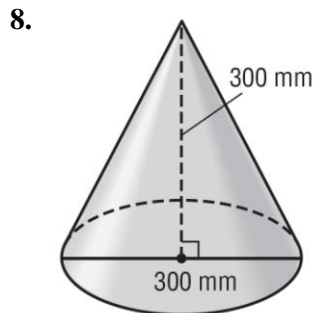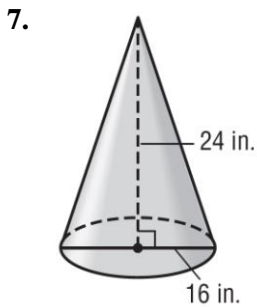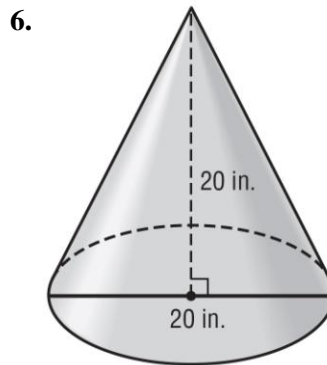
9. height: 26.8 centimeters; radius: 12 centimeters

10. height: 34 feet; diameter: 9.8 feet

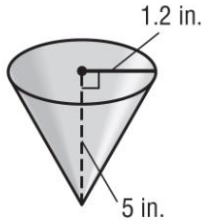**Find the area of the base of each cone.**

11. volume: 36 cubic inches; height: 9 inches

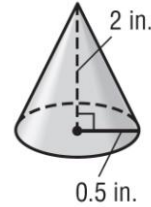**12.** volume: 238 cubic centimeters; height: 74 centimeters

Lesson 2 Problem-Solving Practice

Volume of Cones

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

1.2 in.

5 in.

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

2 in.

0.5 in.

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

2.6 ft

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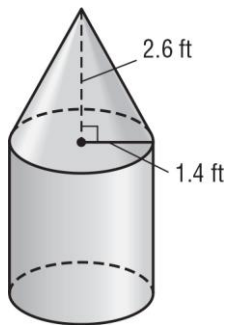
4. PAPERWEIGHT Marta bought a paperweight in the shape of a cone. The radius was 10 centimeters and the height 9 centimeters. Find the volume. Round to the nearest tenth.

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

6. CANDY 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. Find the volume. Round to the nearest tenth.

Lesson 2 Extra Practice

Volume of Cones

Find the volume of each cone. Round to the nearest tenth.

1.

15 ft

11 ft

2.

12 yd

7 yd

3.

8 in.

5 in.

7 in.

4.

10 ft

4 ft

5.

5 mm

7 mm

6.

6.2 m

4.1 m
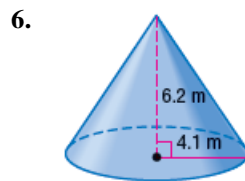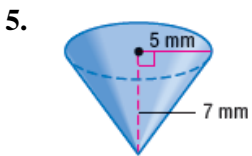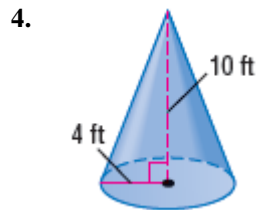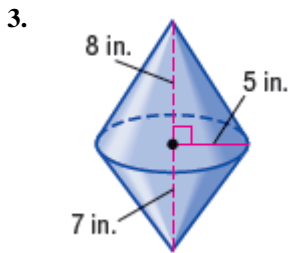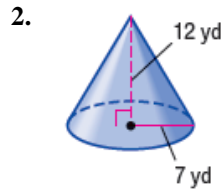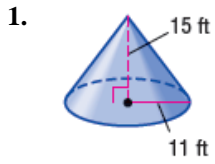
7. radius = 6 ft

height = 20 ft

8. radius = $1\frac{1}{2}$ yd

height = 9 yd

9. diameter = 7 in.

height = 9 in.

10. radius = 5 ft

height = 15 ft

11. radius = 1.3 ft

height = 3.5 ft

12. diameter = 1.9 in.

height = 4.5 in.