Lesson 1 Homework Practice

Volume of Cylinders

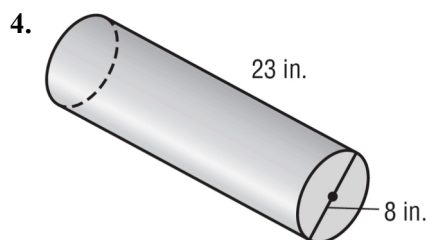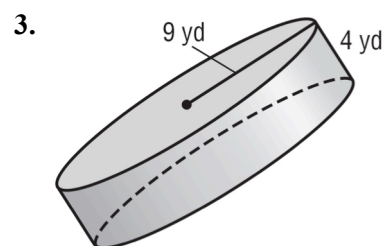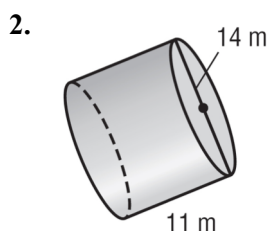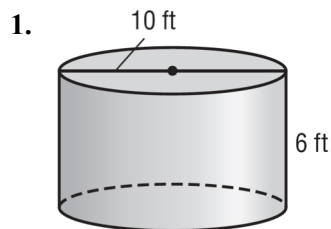**Determine the volume of each cylinder. Round to the nearest tenth.**

1.   10 ft

6 ft

2.   14 m

11 m

3.   9 yd   4 yd

4.   23 in.

8 in.

5.   12.7 mm

3 mm

6.   4.2 cm

2.1 cm
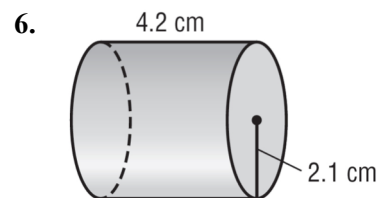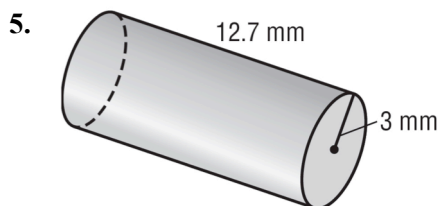
7. What is the volume of a barrel that has a diameter of $1\frac{1}{2}$ feet and a height of 4 feet?

Match each cylinder with its approximate volume.

8. diameter = 4 cm, height = 3.6 cm

a. 116 cm³

9. radius = 2.7 cm, height = 5 cm

b. 115 cm³

10. radius = 3 cm, height = 4.1 cm

c. 106 cm³

11. diameter = 8.2 cm, height = 2 cm

d. 45 cm³

12. Two fuel tanks with the dimensions shown have the same volume. What is the value of h?

8 ft

3 ft

6 ft

h