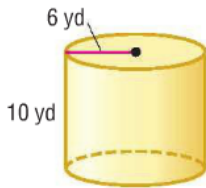# HW 9-1:  Volume

**Find the <u>volume</u> of each cylinder. Write your answer in terms of pi <u>and</u> as a decimal rounded to the nearest tenth. Don't forget to label units appropriately.**
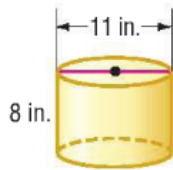
**1.**

Show your work.

6 yd

10 yd

**Volume in terms of Pi** _____      **Approximate Volume** _____

**2.**

←11 in.→

8 in.

**Volume in terms of Pi** _____      **Approximate Volume** _____

**3.**

7.5 in.

6 in.
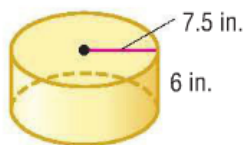
**Volume in terms of Pi** _____      **Approximate Volume** _____
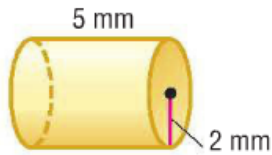
**4.**

24 cm

14 cm
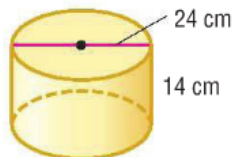
**Volume in terms of Pi** _____      **Approximate Volume** _____

**Find the <u>volume</u> of each cylinder. Write your answer in terms of pi and as a decimal rounded to the nearest tenth.**
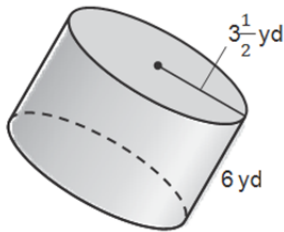
5.

5 mm

2 mm

Answer in terms of Pi    _____

Approximate Answer    _____

6.

$3\frac{1}{2}$ yd

6 yd

Answer in terms of Pi    _____

Approximate Answer    _____

**Calculate the volume of each cylinder. Write your answer in terms of pi, and as a decimal rounded to the nearest tenth.**

**7. Radius = 8.8 cm**
   **Height = 4.7 cm**

**8. Diameter = 10mm**
   **Height = 4 mm**
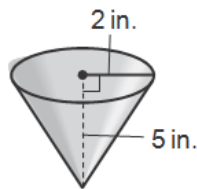
Answer in terms of  Pi    _____

Approximate Answer    _____

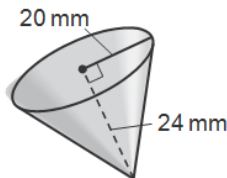Answer in terms of  Pi    _____

Approximate Answer    _____

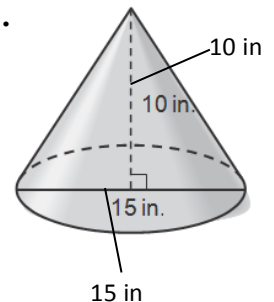**Calculate the volume of each cone. Write your answer as a decimal rounded to the nearest tenth.**

9.        2 in.

5 in.

10.    20 mm

24 mm

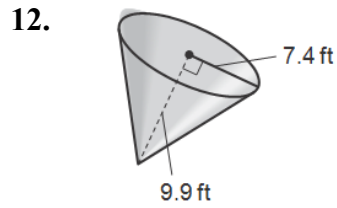11.

10 in

10 in.

15 in.

15 in

Approximate Answer _____

Approximate Answer _____
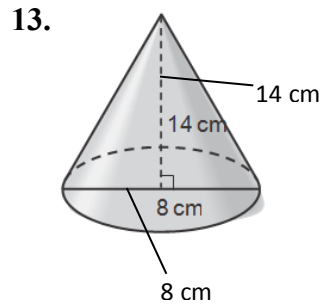
Approximate Answer _____

**Calculate the volume of each cone. Write your answer as a decimal rounded to the nearest tenth.**

**12.**

7.4 ft

9.9 ft

Approximate Answer _____

**13.**

14 cm

14 cm

8 cm

8 cm

Approximate Answer _____

**14.**

20 in

20 in.

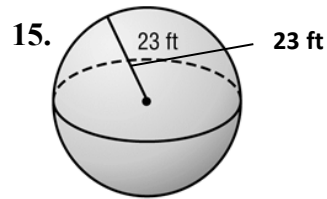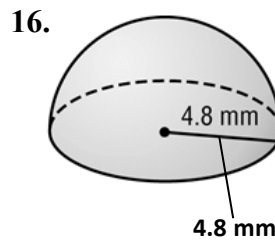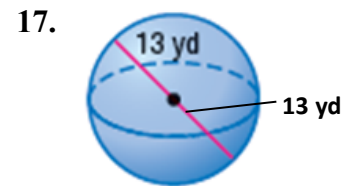20 in.
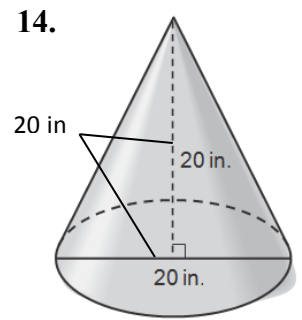
Approximate Answer _____

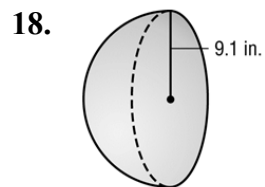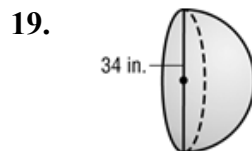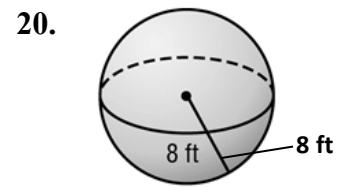**Calculate the volume of the sphere or hemisphere. Write your answer as a decimal rounded to the nearest tenth.**

**15.**

23 ft   23 ft

Approximate Answer _____

**16.**

4.8 mm

4.8 mm

Approximate Answer _____

**17.**

13 yd

13 yd

Approximate Answer _____

**18.**

9.1 in.

Approximate Answer _____

**19.**

34 in.

Approximate Answer _____

**20.**

8 ft   8 ft

Approximate Answer _____