

# Volume of a Cylinder

Name: \_\_\_\_\_

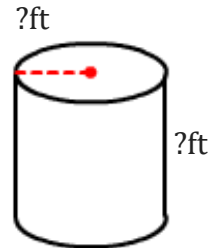
Date: \_\_\_\_\_

**Solve the problems.**

- 1) Ava is buying a new candle and a cylindrical glass candle holder. The candle holder is 6.54 cm tall and has a diameter of 4.24 cm. What is the volume of the candle holder?

\_\_\_\_\_

- 2) A barrel of crude oil contains about 6.2 cubic feet of oil. How many barrels of oil are contained in 1 mile of a pipeline that has an inside diameter of 8 inches and is completely filled with oil?

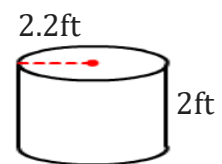


\_\_\_\_\_

- 3) A head chef is making a sauce for the dinner special. She's using a pot that is 14 cm high and has a diameter of 34 cm. What is the volume of the pot?

\_\_\_\_\_

- 4) A manufacturer uses a cylindrical dispenser as shown. Find the volume of a dispenser and round your answer to the nearest tenth.



\_\_\_\_\_

- 5) The diameter of a soup can is 12.2 cm and a height of 14 cm. What is the volume of the soup in the can if 0.4 cm of space is left at the top of the can to allow for expansion?

\_\_\_\_\_

# Volume of a Cylinder

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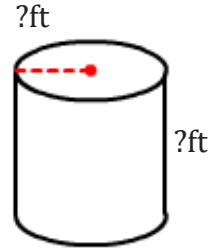
Date: \_\_\_\_\_

**Solve the problems.**

- 1) Ava is buying a new candle and a cylindrical glass candle holder. The candle holder is 6.54 cm tall and has a diameter of 4.24 cm. What is the volume of the candle holder?

$$\underline{92.34 \text{ cm}^3 \approx 92 \text{ cm}^3}$$

- 2) A barrel of crude oil contains about 6.2 cubic feet of oil. How many barrels of oil are contained in 1 mile of a pipeline that has an inside diameter of 8 inches and is completely filled with oil?

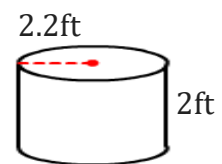


There are about 297 barrels of oil are contained in 1 mile of a pipeline.

- 3) A head chef is making a sauce for the dinner special. She's using a pot that is 14 cm high and has a diameter of 34 cm. What is the volume of the pot?

$$\underline{12710.88 \approx 12711 \text{ cm}^3}$$

- 4) A manufacturer uses a cylindrical dispenser as shown. Find the volume of a dispenser and round your answer to the nearest tenth.



$$\underline{30.41 \approx 30 \text{ ft}^3}$$

- 5) The diameter of a soup can is 12.2 cm and a height of 14 cm. What is the volume of the soup in the can if 0.4 cm of space is left at the top of the can to allow for expansion?

$$\underline{1588.48 \approx 1588 \text{ cm}^3}$$