

# Volume of a Cylinder

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

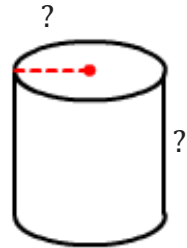
Date: \_\_\_\_\_

**Solve the problems.**

- 1) Sam is buying a new candle and a cylindrical glass candle holder. The candle holder is 6.44 cm tall and has a diameter of 6.44 cm. What is the volume of the candle holder?

\_\_\_\_\_

- 2) A barrel of crude oil contains about 48.4 cubic feet of oil and a pipeline that has an inside diameter of 8 inches and is completely filled with oil. Find the height of a barrel?

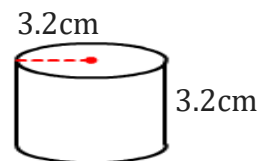


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- 3) Bella is making a sauce for the dinner special for her kids. She's using a pot that is 12 mm high and has a diameter of 32 mm. What is the volume of the pot?

\_\_\_\_\_

- 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 pan is 16 cm and a height of 13 cm. What is the volume of the pan if 0.85 cm of space is left at the top of the can to allow for expansion?

\_\_\_\_\_

# Volume of a Cylinder

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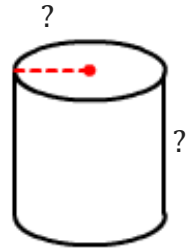
Date: \_\_\_\_\_

**Solve the problems.**

- 1) Sam is buying a new candle and a cylindrical glass candle holder. The candle holder is 6.44 cm tall and has a diameter of 6.44 cm. What is the volume of the candle holder?

$$\underline{209.77 \approx 210 \text{ cm}^3}$$

- 2) A barrel of crude oil contains about 48.4 cubic feet of oil and a pipeline that has an inside diameter of 8 inches and is completely filled with oil. Find the height of a barrel?

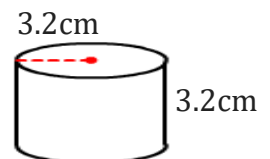


$$\underline{141.47 \approx 141 \text{ ft}}$$

- 3) Bella is making a sauce for the dinner special for her kids. She's using a pot that is 12 mm high and has a diameter of 32 mm. What is the volume of the pot?

$$\underline{9650.97 \approx 9651 \text{ mm}^3}$$

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



$$\underline{102.94 \approx 103 \text{ cm}^3}$$

- 5) The diameter of a pan is 16 cm and a height of 13 cm. What is the volume of the pan if 0.85 cm of space is left at the top of the can to allow for expansion?

$$\underline{2442.9 \approx 2443 \text{ cm}^3}$$