

## Volume of a Cylinder

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

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

**Solve the problems.**

- 1) Sam gave a glass of water to Lucy. The glass is 7cm tall and has a diameter of 4 cm. What is the volume of the glass?

$$\underline{87.96 \text{ cm}^3 \approx 88 \text{ cm}^3}$$

- 2) A cylinder has a radius of 4cm and a height of 16cm. What is the volume of the cylinder?

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- 3) The height and diameter of a cylinder are 1 feet and 2 feet respectively. Find the volume of water the cylinder can hold. Use ( $\pi = 3.14$ ).

\_\_\_\_\_

- 4) A Cylindrical oil tank has a volume of 4,000 cubic feet. If the radius is 10 feet then find the height?

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- 5) A water tank is in the shape of a right circular cylinder with the height of 20 feet and a volume of  $230\pi$  cubic feet what is the diameter of the tank?

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$$\underline{87.96 \text{ cm}^3 \approx 88 \text{ cm}^3}$$

- 2) A cylinder has a radius of 4cm and a height of 16cm. What is the volume of the cylinder?

$$\underline{804.25 \text{ cm}^3 \approx 804 \text{ cm}^3}$$

- 3) The height and diameter of a cylinder are 1 feet and 2 feet respectively. Find the volume of water the cylinder can hold. Use ( $\pi = 3.14$ ).

$$\underline{3.14 \approx 3 \text{ ft}^3}$$

- 4) A Cylindrical oil tank has a volume of 4,000 cubic feet. If the radius is 10 feet then find the height?

$$\underline{12.73 \text{ ft} \approx 13 \text{ ft}}$$

- 5) A water tank is in the shape of a right circular cylinder with the height of 20 feet and a volume of  $230\pi$  cubic feet what is the diameter of the tank?

$$\underline{3.39 \text{ ft} \approx 3 \text{ ft}}$$