

Volume of a Cylinder

Name: _____

Date: _____

Solve the problems.

- 1) The height and diameter of a cylinder are 3 feet and 4 feet respectively. Find the volume of water the cylinder can hold. Use ($\pi = 3.14$).

- 2) A water tank is in the shape of a right circular cylinder with the height of 24 feet and a volume of 180π cubic feet what is the diameter of the tank?

- 3) A cylinder has a radius of 3cm and a height of 18cm. What is the volume of the cylinder?

- 4) Sam gave a glass of water to Lucy. The glass is 9cm tall and has a diameter of 6cm. What is the volume of the glass?

- 5) A Cylindrical oil tank has a volume of 2,000 cubic feet. If the radius is 6 feet then find the height?

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- 1) The height and diameter of a cylinder are 3 feet and 4 feet respectively. Find the volume of water the cylinder can hold. Use ($\pi = 3.14$).

$$37.7 \text{ ft}^3 \approx 38 \text{ ft}^3$$

- 2) A water tank is in the shape of a right circular cylinder with the height of 24 feet and a volume of 180π cubic feet what is the diameter of the tank?

$$5.46 \text{ ft} \approx 5 \text{ ft}$$

- 3) A cylinder has a radius of 3cm and a height of 18cm. What is the volume of the cylinder?

$$508.94 \text{ cm}^3 \approx 509 \text{ cm}^3$$

- 4) Sam gave a glass of water to Lucy. The glass is 9cm tall and has a diameter of 6cm. What is the volume of the glass?

$$254.47 \text{ cm}^3 \approx 254 \text{ cm}^3$$

- 5) A Cylindrical oil tank has a volume of 2,000 cubic feet. If the radius is 6 feet then find the height?

$$17.68 \text{ ft} \approx 18 \text{ ft}$$
