

Volume of a Cylinder

Name: _____

Date: _____

Solve the problems.

- 1) Emily brought the lollipops jar near the science museum, the jar look like the cylindrical shape and has a radius of 4mm and height 9mm. What is the volume of a jar?

- 2) The volume of a cylindrical vessel is 110cm and its height is 20cm. What is the radius of the cylindrical vessel?

- 3) Jacob buys a juice can on a hot day. The cylindrical can is filled with $22\pi\text{cm}^3$ of juice. The radius of a can is 5 cm. What is the height of the can?

- 4) The height and diameter of a cylindrical-shaped storage tank are 9 mm and 14 mm respectively. Find the volume of liquid the tank can hold.

- 5) Zoe loves roses. She has a cylindrical-shaped container with height 18cm and radius 6cm, she plans to fill the container with soil to grow her won rose plants. Find how much soil will the container hold?

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- 1) Emily brought the lollipops jar near the science museum, the jar look like the cylindrical shape and has a radius of 4mm and height 9mm. What is the volume of a jar?

$$\underline{452.39\text{mm}^3 \approx 452\text{mm}^3}$$

- 2) The volume of a cylindrical vessel is 110cm and its height is 20cm. What is the radius of the cylindrical vessel?

$$\underline{1.32\text{cm}^3 \approx 1\text{cm}^3}$$

- 3) Jacob buys a juice can on a hot day. The cylindrical can is filled with $22\pi\text{cm}^3$ of juice. The radius of a can is 5 cm. What is the height of the can?

$$\underline{0.88 \approx 1\text{cm}}$$

- 4) The height and diameter of a cylindrical-shaped storage tank are 9 mm and 14 mm respectively. Find the volume of liquid the tank can hold.

$$\underline{1385.44 \text{ mm}^3 \approx 1385 \text{ mm}^3}$$

- 5) Zoe loves roses. She has a cylindrical-shaped container with height 18cm and radius 6cm, she plans to fill the container with soil to grow her won rose plants. Find how much soil will the container hold?

$$\underline{2035.75\text{cm}^3 \approx 2036\text{cm}^3}$$