# Volume of a Cylinder

Name:_____ Date:_____

**Solve the problems.**

1) The volume of a cylindrical vessel is $122cm^3$ and its height is 22 cm. What is the radius of the cylindrical vessel?

_____

2) Zoe loves roses. She has a cylindrical-shaped container with height 14cm and radius 9cm, she plans to fill the container with soil to grow her won rose plants. Find how much soil will the container hold?

_____

3) Jacob buys a juice can on a hot day. The cylindrical can is filled with $25\pi cm^3$ of juice. The radius of a can is 4 cm. What is the height of the can?

_____

4) Emily brought the lollipops jar near the science museum, the jar look like the cylindrical shape and has a radius of 6mm and height 12mm. What is the volume of a jar?

_____

5) The height and diameter of a cylindrical-shaped storage tank are 10 feet and 16 feet respectively. Find the volume of liquid the tank can hold.

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Name:_____ Date:_____

**Solve the problems.**

1) The volume of a cylindrical vessel is $122cm^3$ and its height is 22 cm. What is the radius of the cylindrical vessel?

$1.33cm \approx 1cm$

2) Zoe loves roses. She has a cylindrical-shaped container with height 14cm and radius 9cm, she plans to fill the container with soil to grow her won rose plants. Find how much soil will the container hold?

$3562.57cm^3 \approx 3563cm^3$

3) Jacob buys a juice can on a hot day. The cylindrical can is filled with $25\pi cm^3$ of juice. The radius of a can is 4 cm. What is the height of the can?

$1.56 \approx 2cm$

4) Emily brought the lollipops jar near the science museum, the jar look like the cylindrical shape and has a radius of 6mm and height 12mm. What is the volume of a jar?

$1357.17\ mm^3 \approx 1358\ mm^3$

5) The height and diameter of a cylindrical-shaped storage tank are 10 feet and 16 feet respectively. Find the volume of liquid the tank can hold.

$2010.62ft^3 \approx 2011ft^3$