

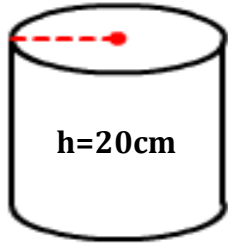
Volume of a Cylinder

Name: _____

Date: _____

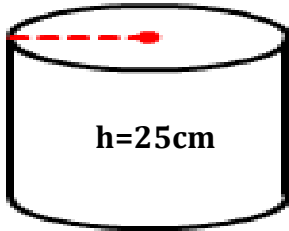
Picture below are three cylindrical tins of water. Answer the questions.

$r=8\text{cm}$

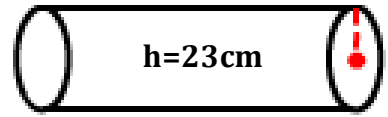


Tin 1

$r=10\text{cm}$



Tin 2



$r=5\text{cm}$

$h=23\text{cm}$

Tin 3

- 1) The height and radius of a cylinder are 23 cm and 5 cm respectively. Find the volume of tin 3.

- 2) Which tin contains more water: Tin 3 or Tin 1?

- 3) What is the height of tin 3?

- 4) What is the volume of tin 1?

- 5) Which tin contains less water: Tin 2 or Tin 3?

- 6) What is the height of tin 1?

- 7) Which has a greater height: Tin 1 or Tin 2?

- 8) What is the volume of tin 3?

- 9) If tin 3 has increased by a radius of 1 cm. What is the volume?

- 10) Find the volume of cylinder with radius of 8 cm and a height of 20 cm.

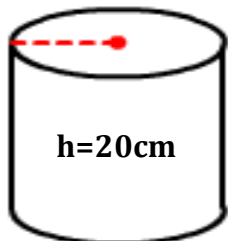
Volume of a Cylinder

Name: _____

Date: _____

Picture below are three cylindrical tins of water. Answer the questions.

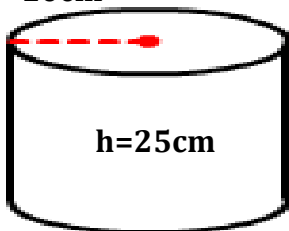
$r=8\text{cm}$



$h=20\text{cm}$

Tin 1

$r=10\text{cm}$



$h=25\text{cm}$

Tin 2



$h=23\text{cm}$

$r=5\text{cm}$

Tin 3

- 1) The height and radius of a cylinder are 23 cm and 5 cm respectively. Find the volume of tin 3.

1805.5 cm³

- 2) Which tin contains more water: Tin 3 or Tin 1?

Tin 1

- 3) What is the height of tin 3?

23 cm

- 4) What is the volume of tin 1?

4021.24 cm³

- 5) Which tin contains less water: Tin 2 or Tin 3?

Tin 2

- 6) What is the height of tin 1?

20 cm

- 7) Which has a greater height: Tin 1 or Tin 2?

Tin 2

- 8) What is the volume of tin 3?

1806.42 cm³

- 9) If tin 3 has increased by a radius of 1 cm. What is the volume?

2601.24 cm³

- 10) Find the volume of cylinder with radius of 8 cm and a height of 20 cm.

4021.24 cm³