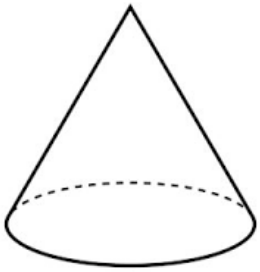
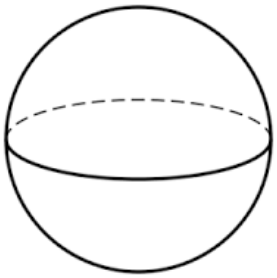
Volume using Formulae

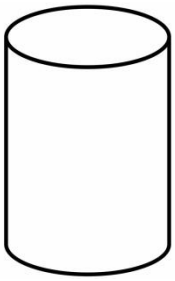
1. Find the volume of the following shapes:



$V_{Cone} = \frac{1}{3}\pi r^2 h$



$V_{Sphere} = \frac{4}{3}\pi r^3$



$V_{Cylinder} = \pi r^2 h$

Shape	Length	Height
Sphere	$Radius\ 7cm$	
Cone	$Radius\ 7cm$	$10cm$
Cylinder	$Radius\ 7cm$	$10cm$
Sphere	$Diameter\ 8cm$	
Cone	$Diameter\ 12cm$	$14cm$
Cylinder	$Diameter\ 16cm$	$21cm$
Sphere	$Diameter\ 7cm$	
Cone	$Diameter\ 13cm$	$10cm$
Cylinder	$Radius\ 7cm$	$10cm$

2. Find the radius of a sphere with a volume of

a. $320cm^3$ b. $420cm^3$ c. $6500cm^3$ d. $18.54mm^3$

3. Find the height of a cone with

a. A volume of $320cm^3$ and a radius of $5cm$

b. A volume of $420cm^3$ and a radius of $5cm$

c. A volume of $6050cm^3$ and a radius of $13cm$

4. Find the radius of a cone with

a. A volume of $320cm^3$ and a height of $5cm$

b. A volume of $420cm^3$ and a height of $5cm$

c. A volume of $6050cm^3$ and a height of $13cm$

3. Find the height of a cylinder with

a. A volume of $320cm^3$ and a radius of $5cm$

b. A volume of $420cm^3$ and a radius of $5cm$

c. A volume of $6050cm^3$ and a radius of $13cm$

4. Find the radius of a cylinder with

a. A volume of $320cm^3$ and a height of $5cm$

b. A volume of $420cm^3$ and a height of $5cm$

c. A volume of $6050cm^3$ and a height of $13cm$