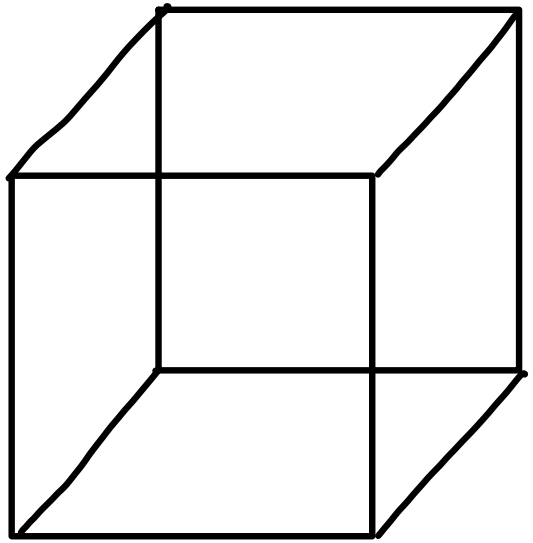
Volume

By .... Kru ชี่

What is volume?

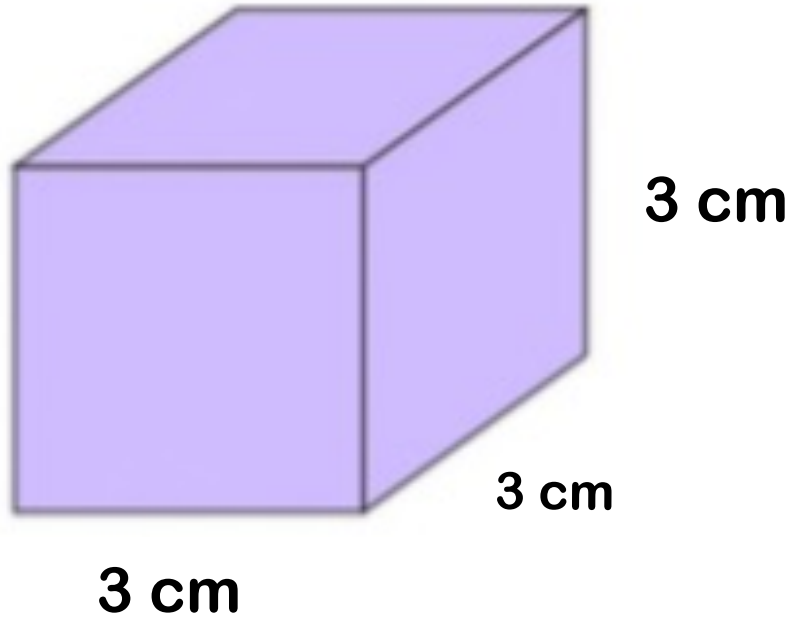
- Volume is a measure of occupied 3-dimensional space

Cube

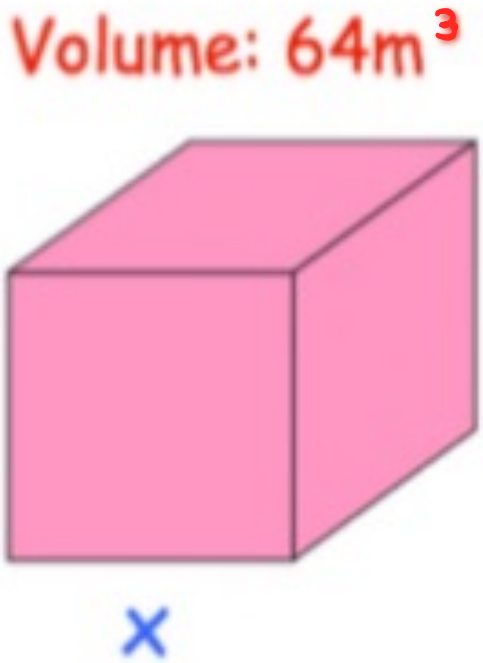


Example

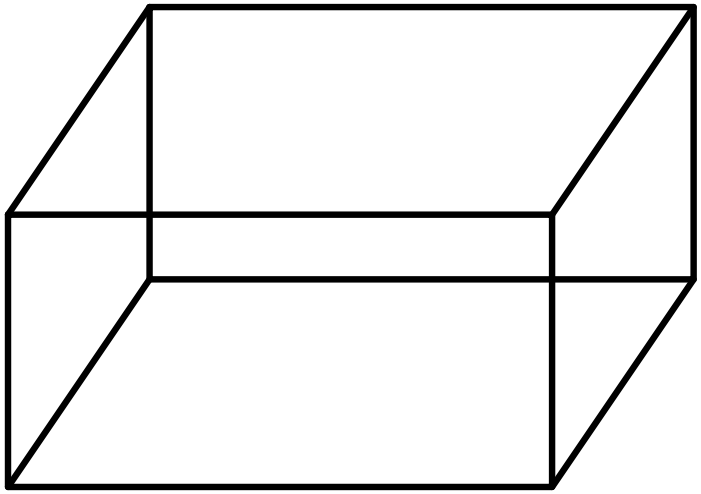
Find volume of cube



Example

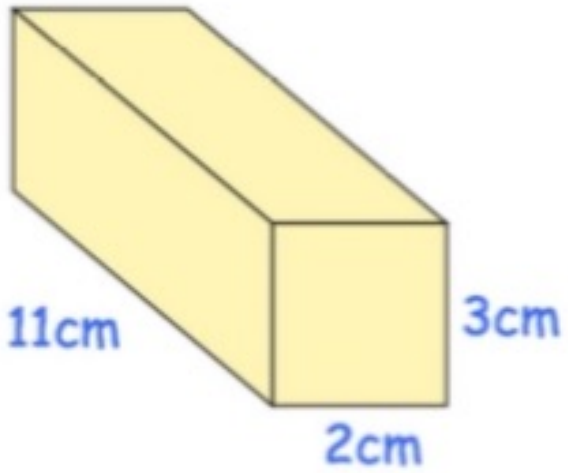


Cuboid



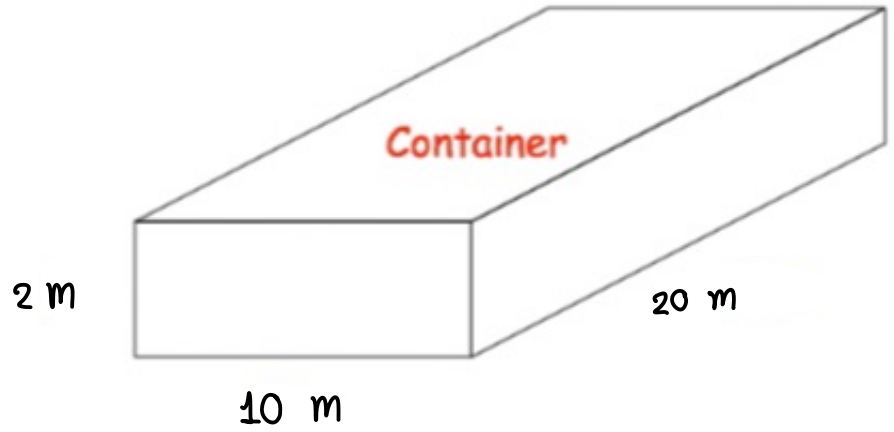
Example

Find the volume

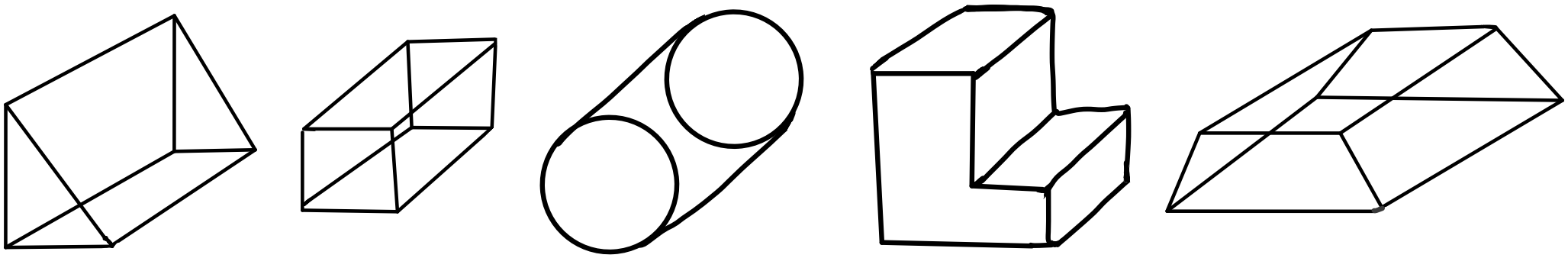


Example

The cuboid container below is used to store boxes.
Each box is a cube with side length 1m.
How many boxes can be stored in the container?

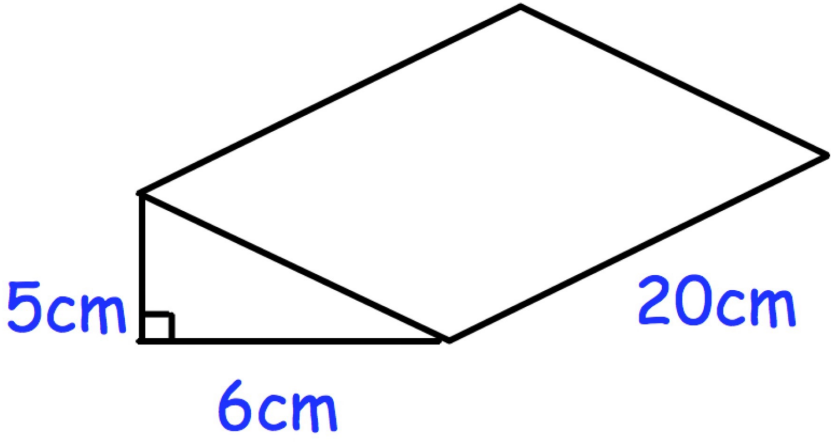


Prisms



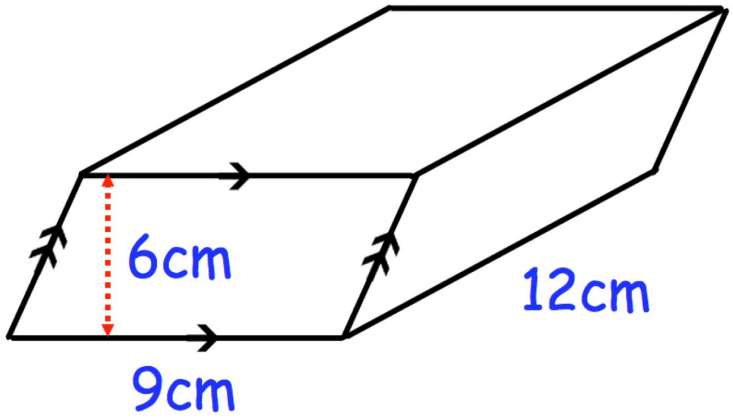
Example

Find the volume



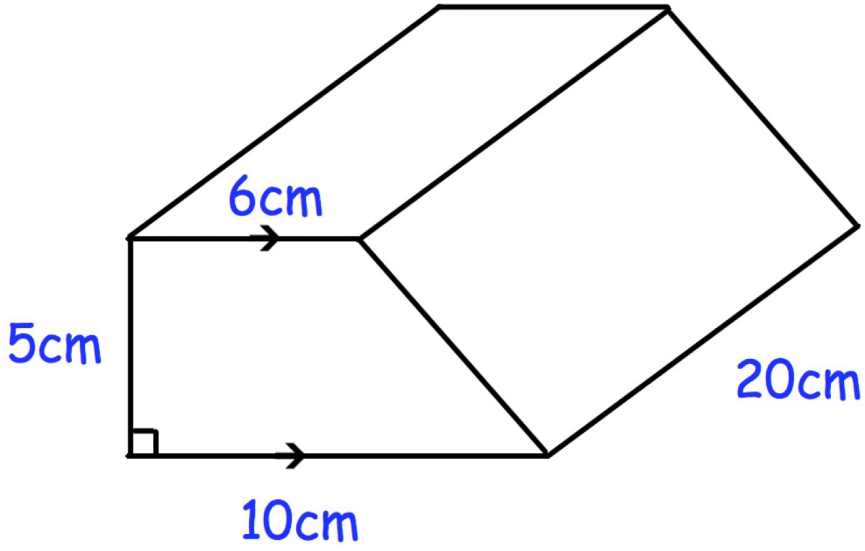
Example

Find the volume



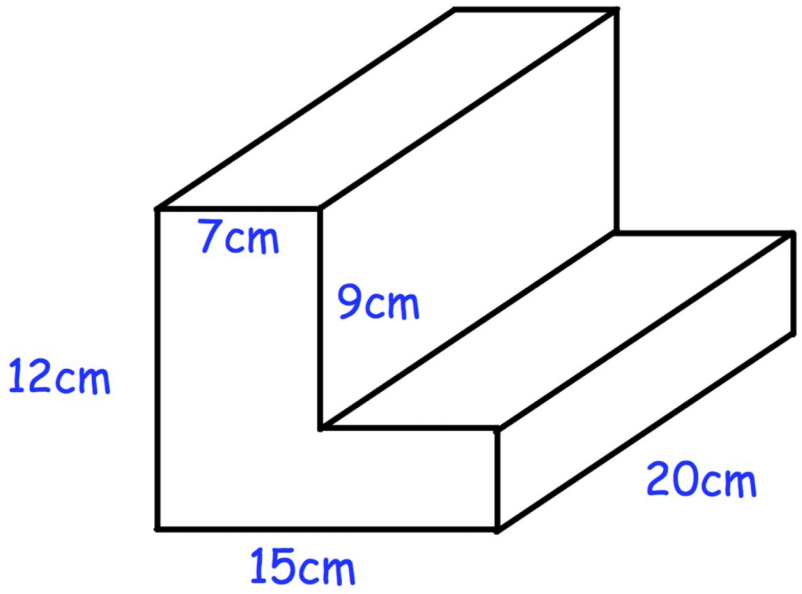
Example

Find the volume



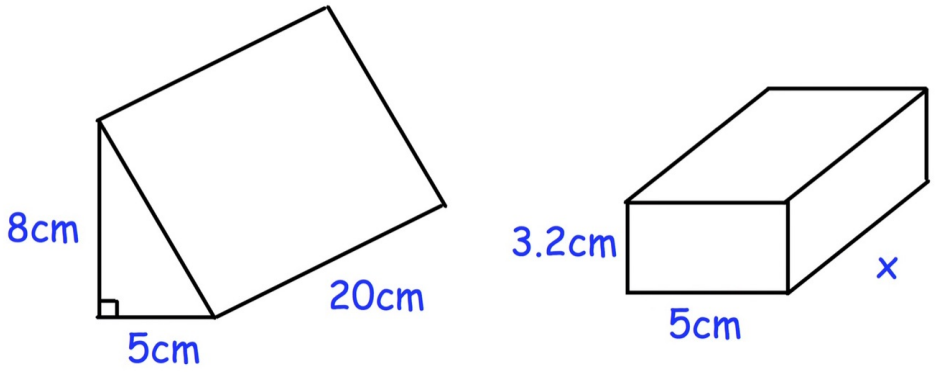
Example

Find the volume

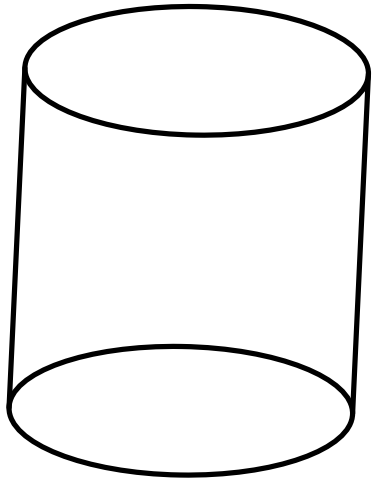


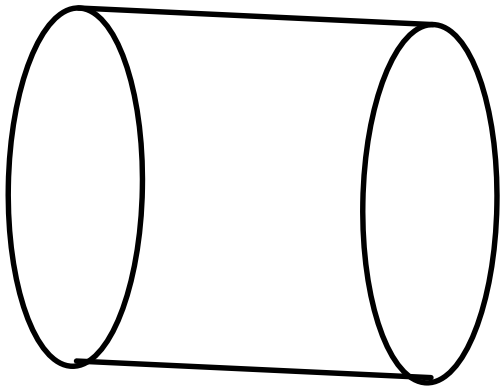
Example

The cuboid and the triangular prism have the same volume.
Find x.



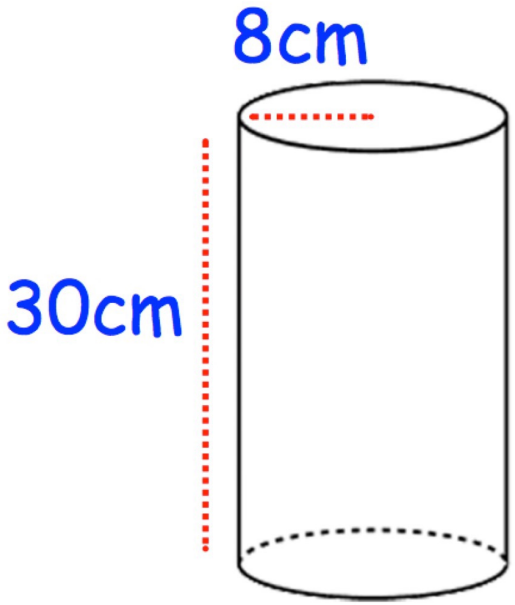
Cylinder



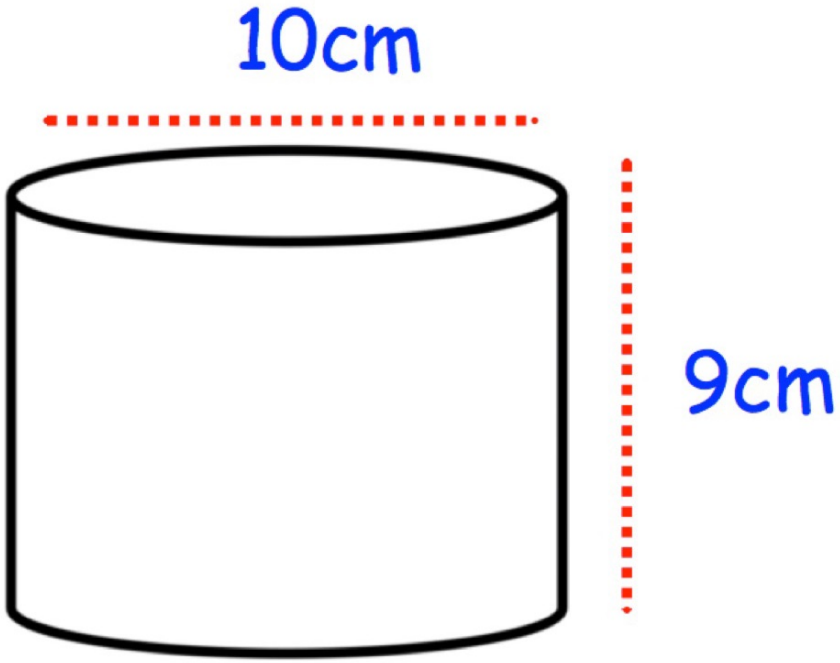


Example

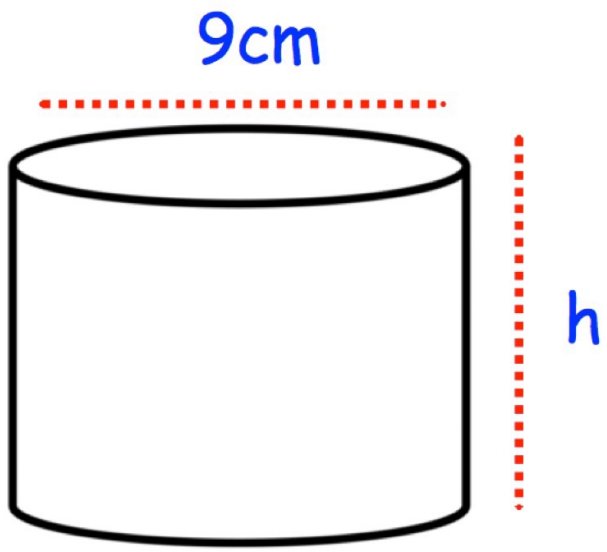
Find the volume



Example Find the volume

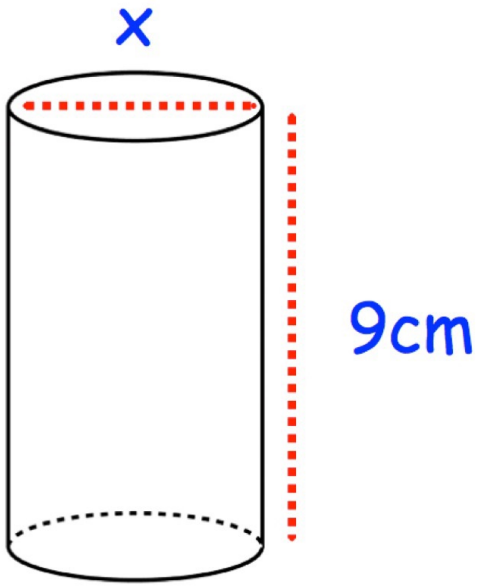


Example



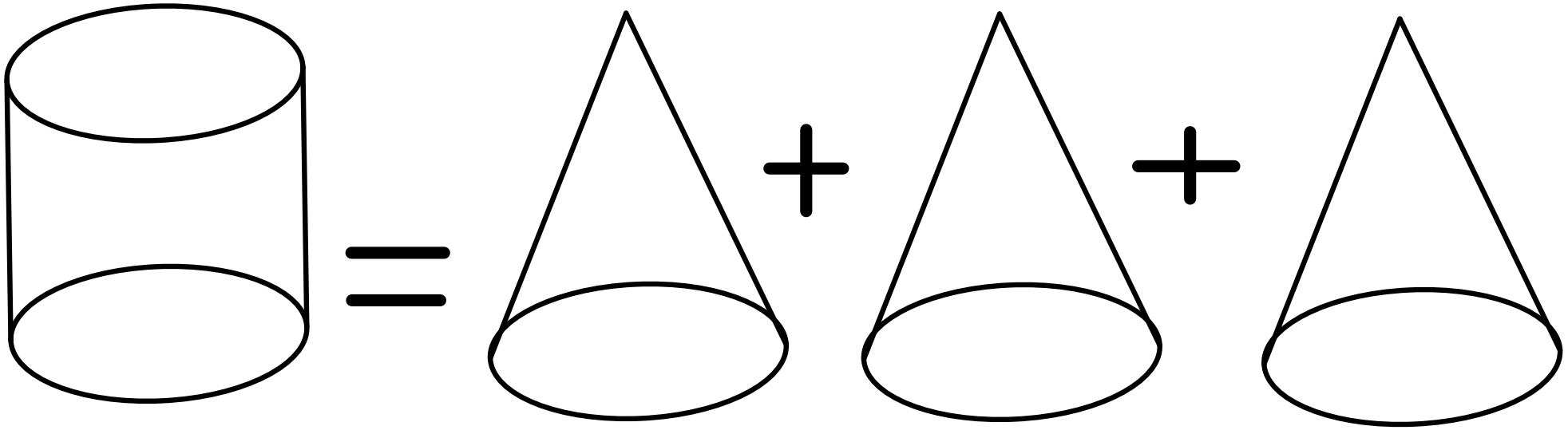
Volume = $800cm^3$

Example



Volume = 170cm ^{3}

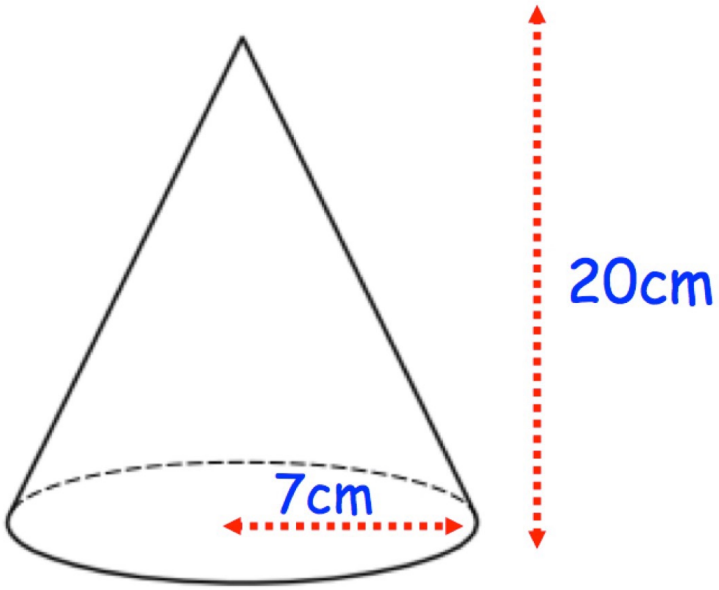
Cone



Cone

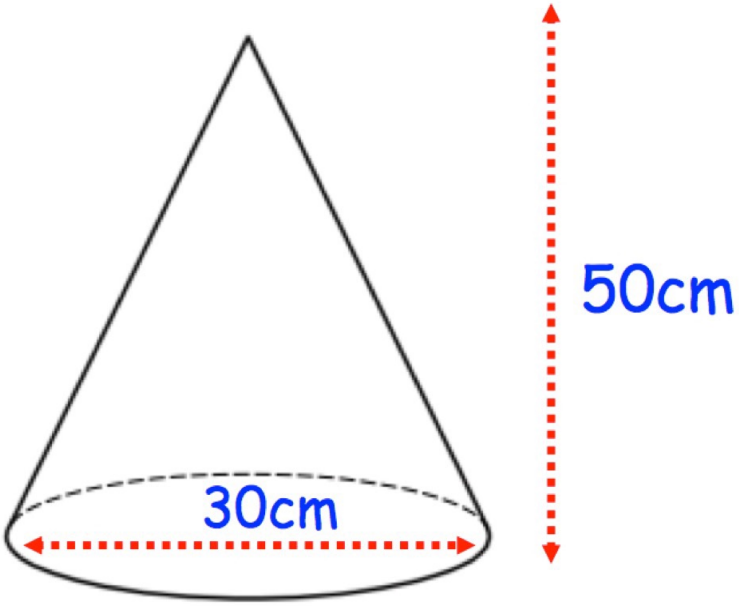
Example

Find the volume

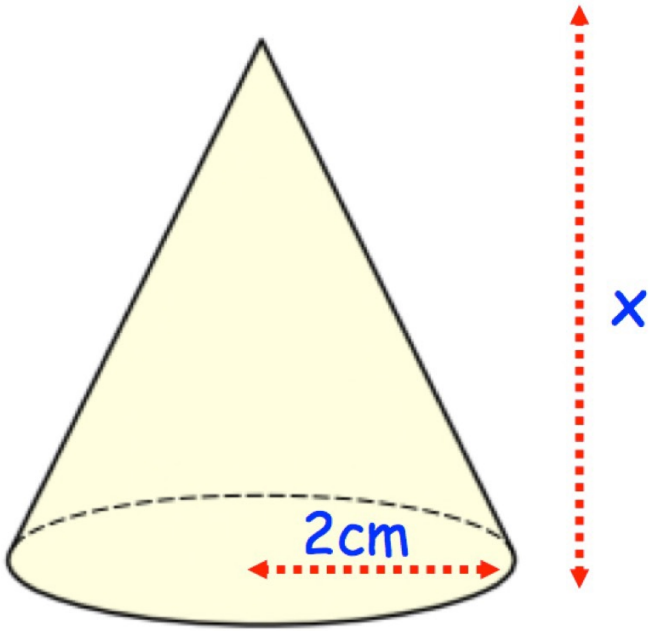


Example

Find the volume

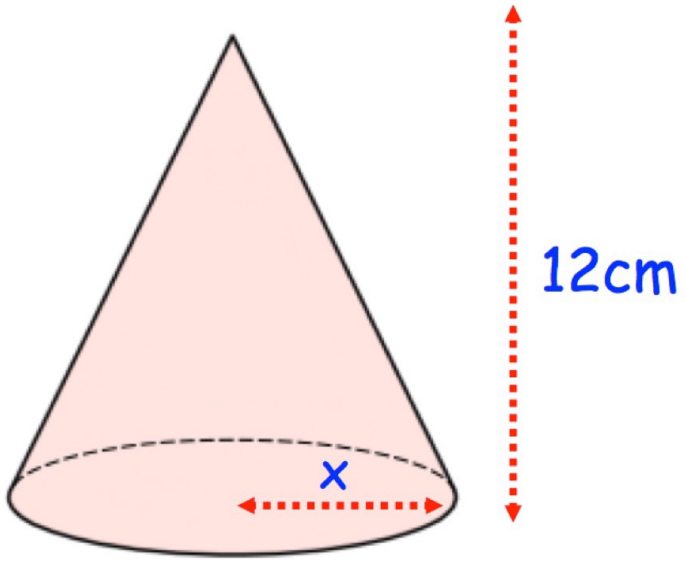


Example



Volume = $22cm^3$

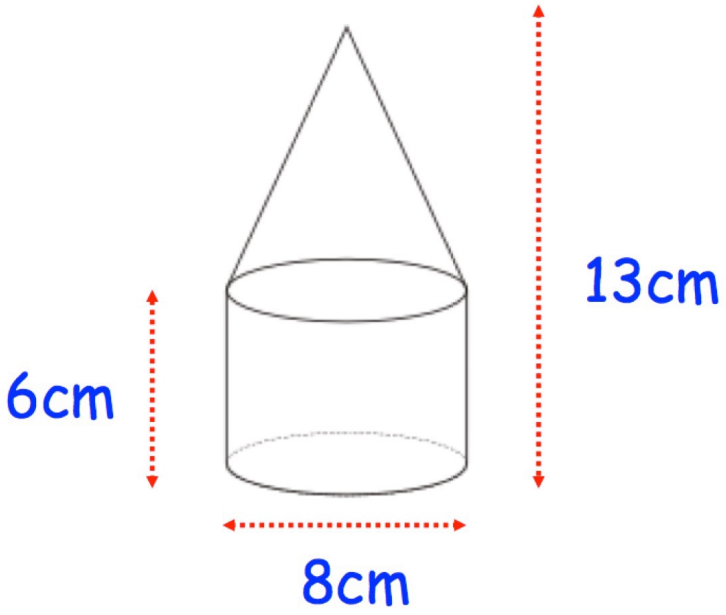
Example



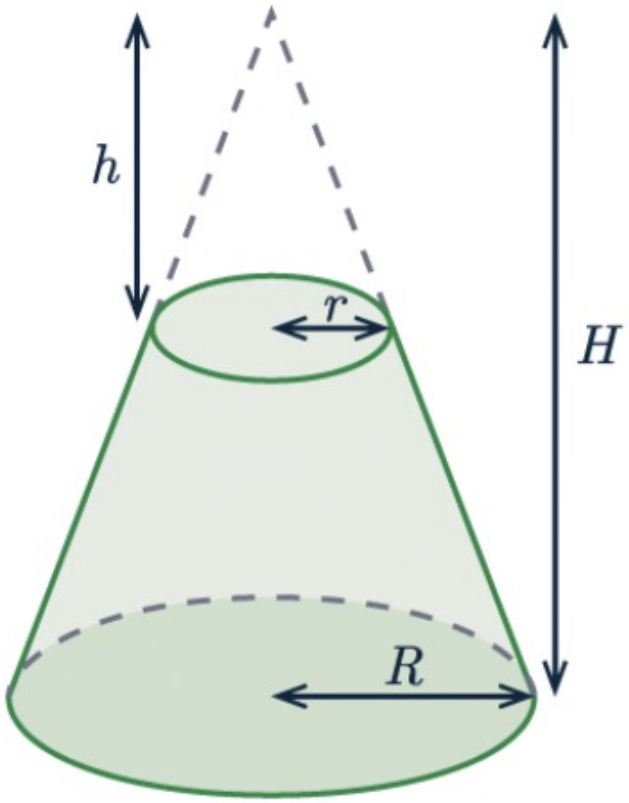
Volume = $300cm^3$

Example

Find the volume



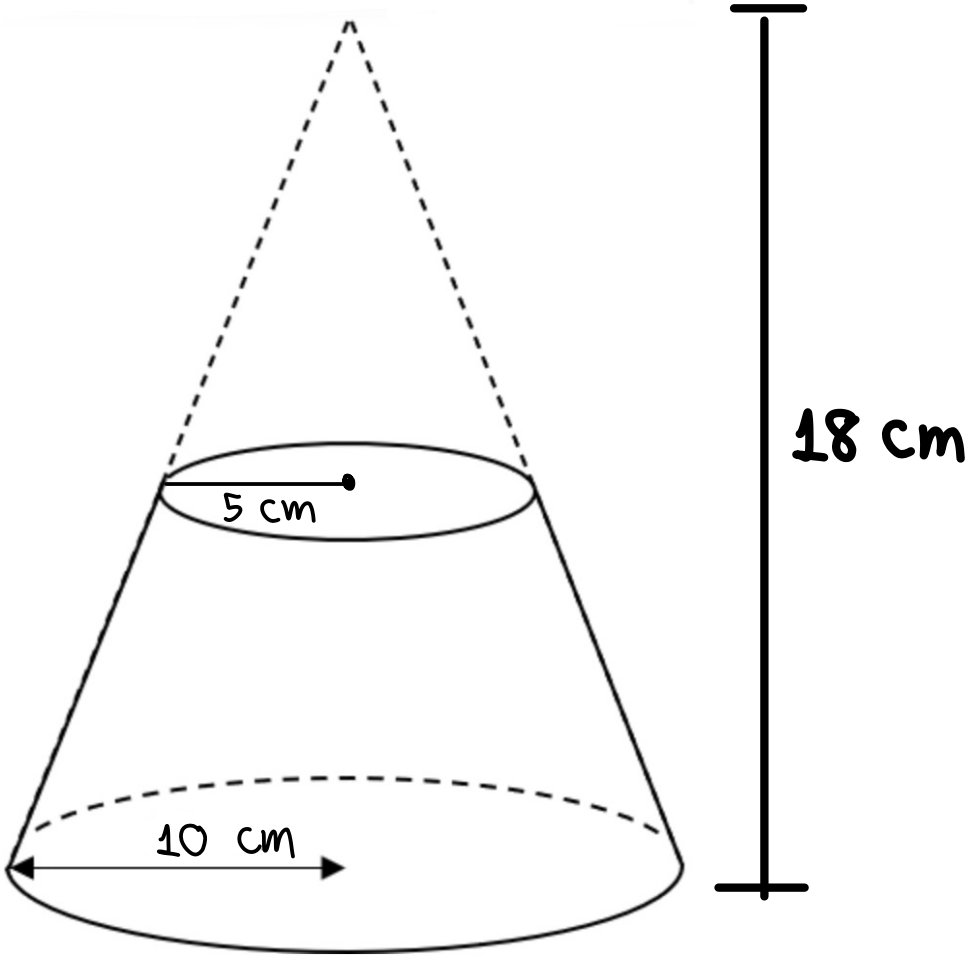
Frustum



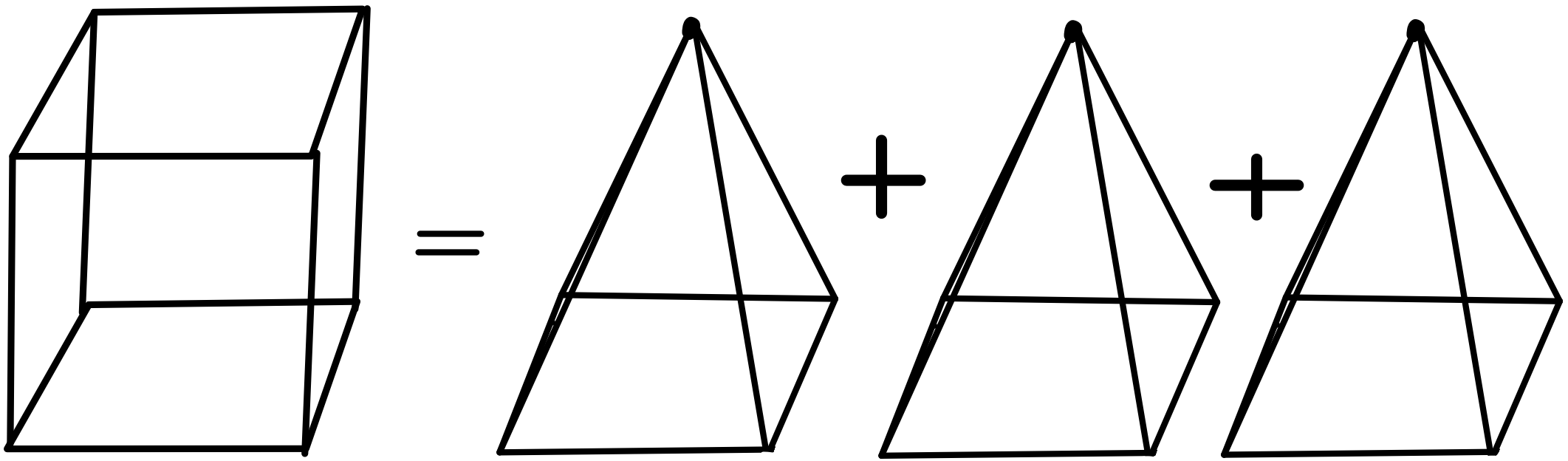
The frustum of a cone is the 3D shapes that is left over after you cut the top off

Example

Find the volume of frustum



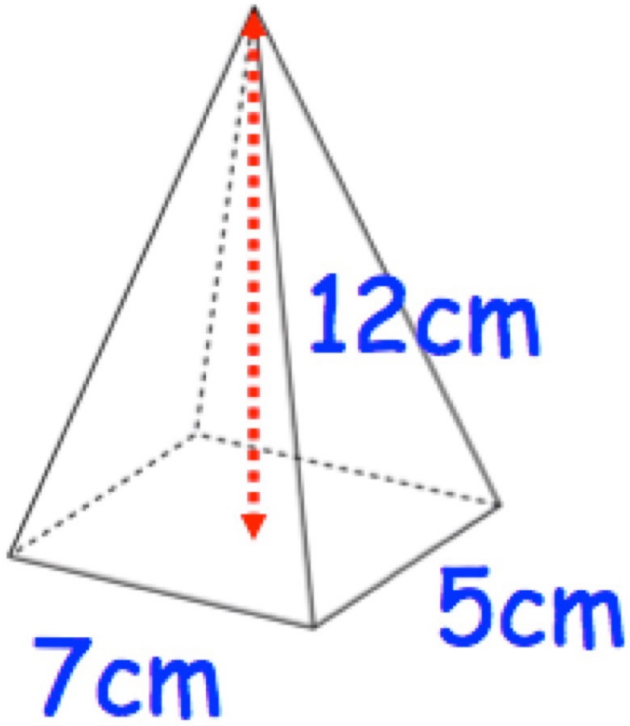
Pyramid



Pyramid

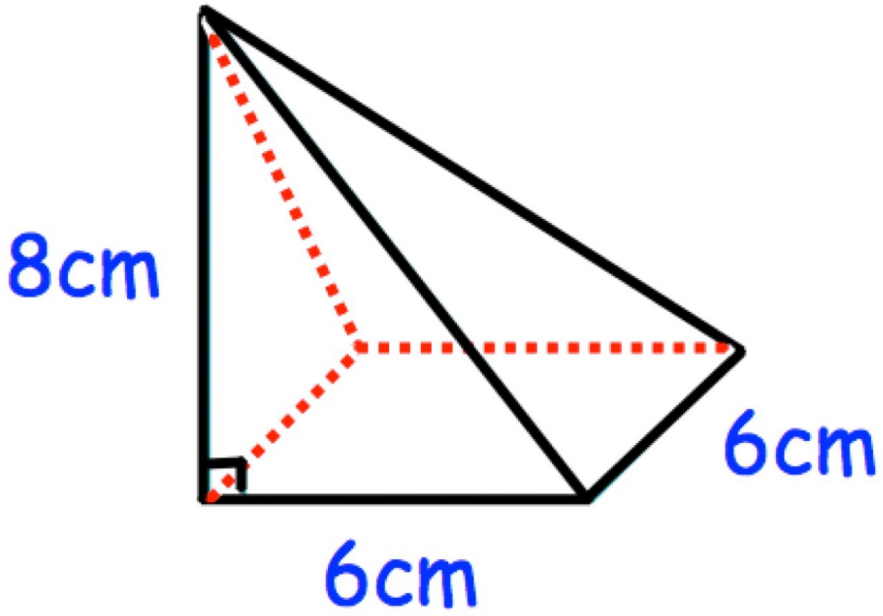
Example

Find the volume

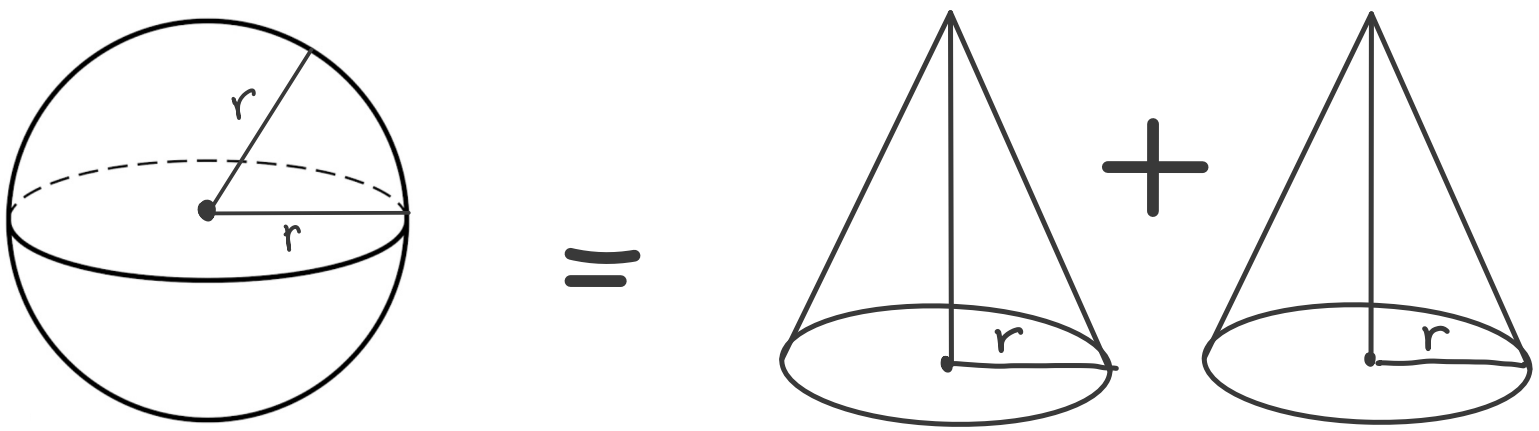


Example

Find the volume

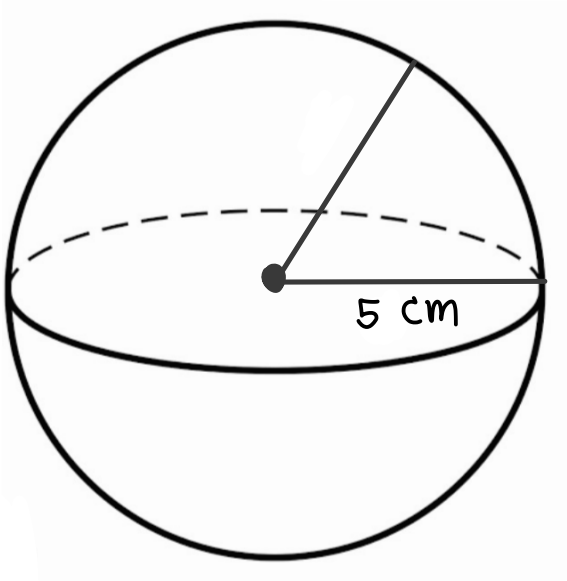


Sphere

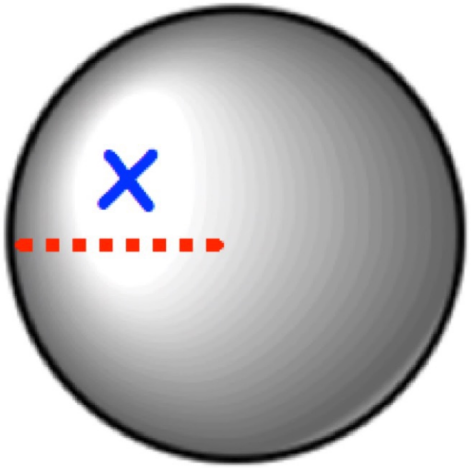


Example

Find the volume



Example



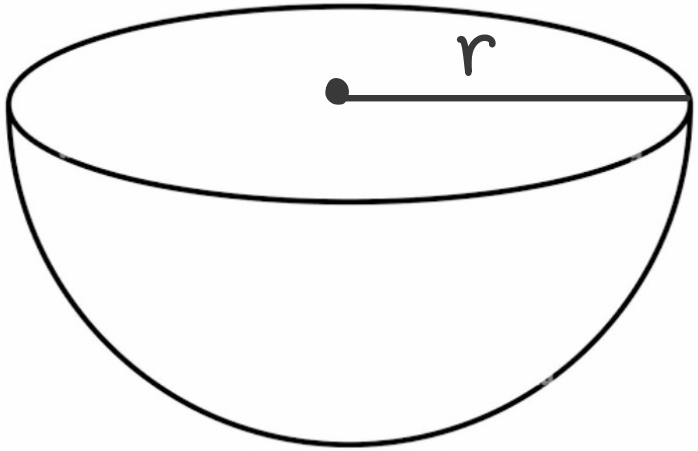
Volume is 100 cm^3

Find the value of x

Example

A metal cuboid measuring 4cm by 5cm by 12cm is melted down and a sphere is made.
Calculate the radius of the sphere.

Hemisphere



Example

Find the volume