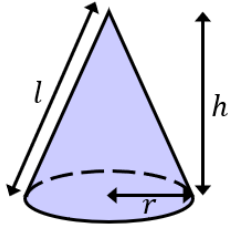
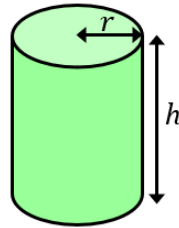


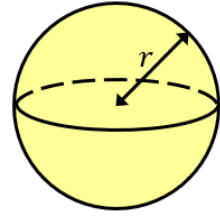
Volume of Cylinders, Cones and Spheres



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



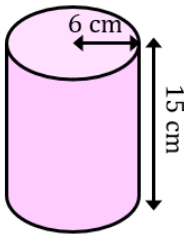
Volume of Cylinder = $\pi r^2 h$



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

(a)

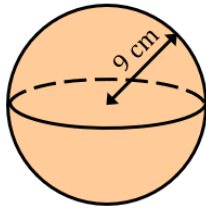
Find the volume, giving your answer in terms of π



$540\pi \text{ cm}^3$

(b)

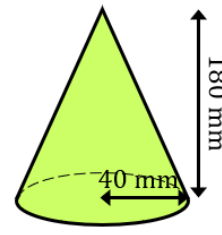
Find the volume, giving your answer to the nearest cm^3



3054 cm^3

(c)

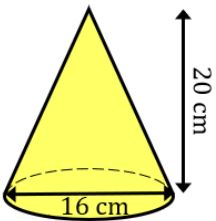
Find the volume, giving your answer to 3 significant figures



302000 mm^3

(d)

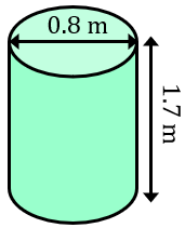
Find the volume, giving your answer to 3 significant figures



1340 cm^3

(e)

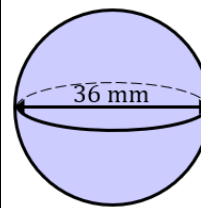
Find the volume, giving your answer to 2 decimal places



0.85 m^3

(f)

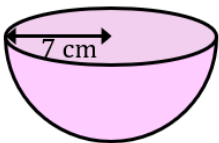
Find the volume, leaving your answer in terms of π



$7776\pi \text{ mm}^3$

(g)

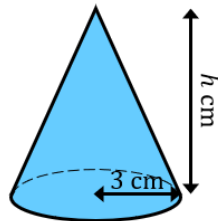
Find the volume of the hemisphere to the nearest cm^3



718 cm^3

(h)

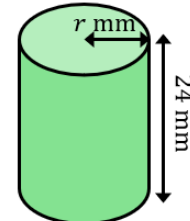
The cone has a volume of $39\pi \text{ cm}^3$. Find the height h .



13 cm

(i)

The cylinder has a volume of 6100 mm^3 . Find its radius to the nearest mm.

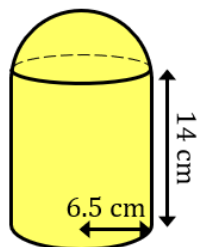


9 mm

(j)

A shape is made by joining a hemisphere to a cylinder. Both have a radius of 6.5 cm. Find the total volume of the shape.

2433 cm^3



(k)

A shape is made by joining a cone to a hemisphere, where both shapes have the same radius. The total volume is $402\pi \text{ cm}^3$. Find the height of the cone.

21.5 cm

