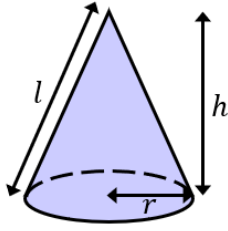
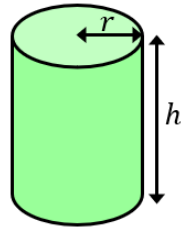


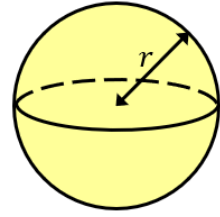
Volume of Cylinders, Cones and Spheres



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



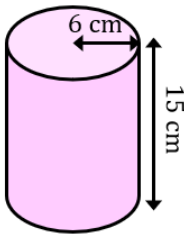
Volume of Cylinder = $\pi r^2 h$



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

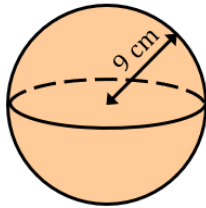
(a)

Find the volume, giving your answer in terms of π



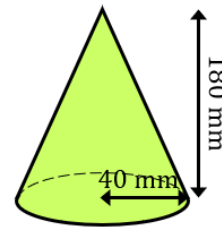
(b)

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



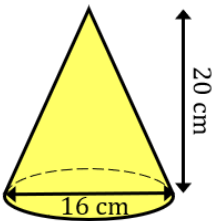
(c)

Find the volume, giving your answer to 3 significant figures



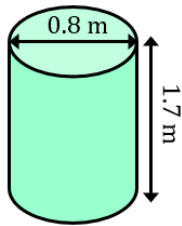
(d)

Find the volume, giving your answer to 3 significant figures



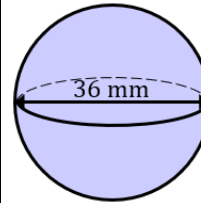
(e)

Find the volume, giving your answer to 2 decimal places



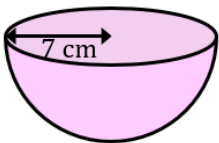
(f)

Find the volume, leaving your answer in terms of π



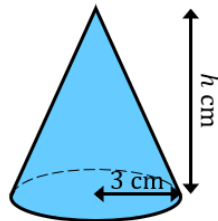
(g)

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



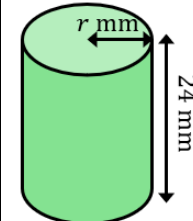
(h)

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



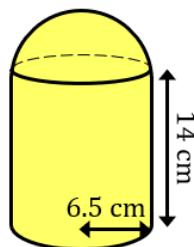
(i)

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



(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.

