## **VOLUME OF SOLIDS**

 $\mathbf{1}^{st}$  thing – choose and use the correct formula from the formula sheet

Remember the volume of a cylinder is  $V = \pi r^2 h$ 

 $\mathbf{2}^{nd}$  thing – make sure that you are using the radius and not the diameter

**3<sup>rd</sup> thing** – make sure that the formula on your calculator is the same as the formula in your working before your press enter!

Always write your full calculator answer, then round and add units (cm<sup>3</sup> for volume)



Now try these – round all your answers to 3 significant figures



**SOLUTIONS** 

$V = \pi \times 5^2 \times 8 = 628m^3$	$V = \frac{4\pi}{3} \times 6^3 = 905 cm^3$	$V = \frac{\pi}{3} \times 6^2 \times 13 = 490 cm^3$
$V = \frac{2\pi}{3} \times 5.5^3 = 348 cm^3$	$V = \pi \times 8^2 \times 15 + \frac{4\pi}{3} \times 8^3$ $= 5160 cm^3$	$V = \pi \times 4^2 \times 11 - \frac{4\pi}{3} \times 4^3$ $= 285 cm^3$