

Name

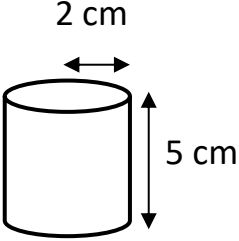
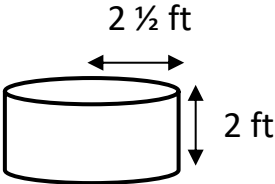
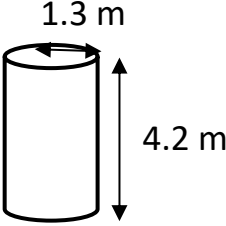
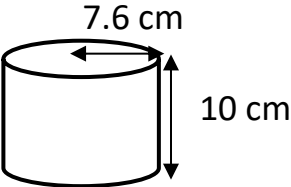
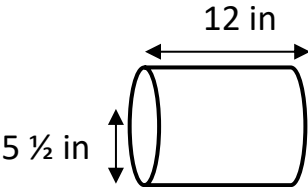
Date



VOLUME OF A CYLINDER SHEET 1

Use the radius and height measurements to find the volume of these closed cylinders.

Give your answers to 2 decimal places.

CYLINDER	WORKING OUT	VOLUME
1) 		
2) 		
3) 		
4) 		
5) 		



VOLUME OF A CYLINDER SHEET 1 ANSWERS

	CYLINDER	WORKING OUT	VOLUME
1)		<p>Cylinder volume = $\pi r^2 h$ $= \pi \cdot 2^2 \cdot 5 = \pi \cdot 4 \cdot 5 = 20\pi$ $= 62.83 \text{ cm}^3$ to 2 decimal places</p>	62.83 cm ³
2)		<p>Cylinder volume = $\pi r^2 h$ $= \pi \cdot (2 \frac{1}{2})^2 \cdot 2 = \pi \cdot 6 \frac{1}{4} \cdot 2$ $= 12 \frac{1}{2} \pi$ $= 39.27 \text{ ft}^3$ to 2 decimal places</p>	39.27 ft ³
3)		<p>Cylinder volume = $\pi r^2 h$ $= \pi \cdot (1.3)^2 \cdot 4.2 = \pi \cdot 1.69 \cdot 4.2$ $= 7.098 \pi$ $= 22.30 \text{ m}^3$ to 2 decimal places</p>	22.30 m ³
4)		<p>Cylinder volume = $\pi r^2 h$ $= \pi \cdot (7.6)^2 \cdot 10$ $= \pi \cdot 57.76 \cdot 10$ $= 577.6 \pi$ $= 1814.58 \text{ cm}^3$ to 2 dp</p>	1814.58 cm ³
5)		<p>Cylinder volume = $\pi r^2 h$ $= \pi \cdot (5 \frac{1}{2})^2 \cdot 12$ $= \pi \cdot 30 \frac{1}{4} \cdot 12$ $= 363 \pi$ $= 1140.40 \text{ in}^3$ to 2 dp</p>	1140.40 in ³