

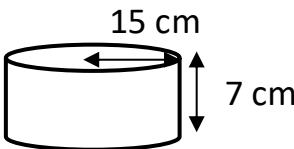
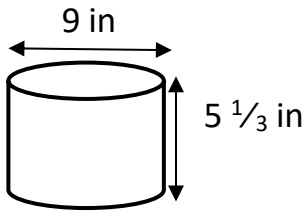
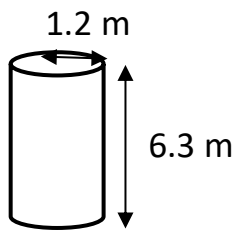
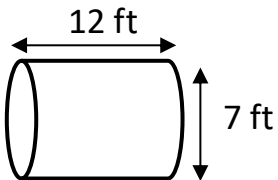
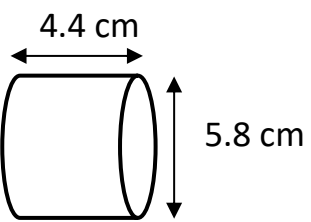
Name

Date



VOLUME OF A CYLINDER SHEET 2

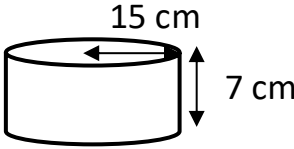
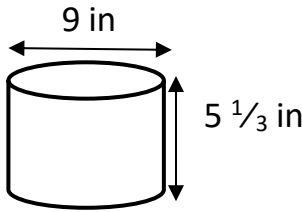
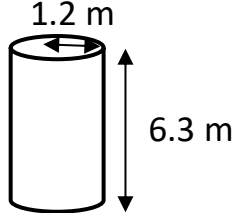
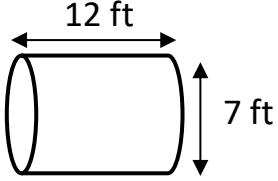
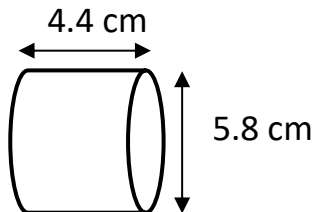
Use the measurements to find the volume of these cylinders. Give your answers to 2 decimal places.

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



VOLUME OF A CYLINDER SHEET 2 ANSWERS

Use the measurements to find the volume of these cylinders. Give your answers to 2 decimal places.

	WORKING OUT	VOLUME
1) 	<p>Cylinder volume = $\pi r^2 h$ $= \pi \cdot 15^2 \cdot 7 = \pi \cdot 225 \cdot 7 = 1575\pi$ $= 4948.01 \text{ cm}^3$ to 2 decimal places</p>	4948.01 cm^3
2) 	<p>The diameter is 9 inches, so the radius is $9 \div 2 = 4 \frac{1}{2}$ inches. Cylinder volume = $\pi r^2 h$ $= \pi \cdot (4 \frac{1}{2})^2 \cdot 5 \frac{1}{3} = \pi \cdot 81/4 \cdot 5 \frac{1}{3}$ $= 108\pi$ $= 339.29 \text{ in}^3$ to 2 decimal places</p>	339.29 in^3
3) 	<p>Cylinder volume = $\pi r^2 h$ $= \pi \cdot 1.2^2 \cdot 6.3 = \pi \cdot 1.44 \cdot 6.3 = 9.072\pi$ $= 28.50 \text{ m}^3$ to 2 decimal places</p>	28.50 m^3
4) 	<p>The diameter is 12 foot, so the radius is $12 \div 2 = 6$ foot. Cylinder volume = $\pi r^2 h$ $= \pi \cdot (6)^2 \cdot 7 = \pi \cdot 36 \cdot 7 = 252\pi$ $= 791.68 \text{ ft}^3$ to 2 decimal places</p>	791.68 ft^3
5) 	<p>The diameter is 5.8 cm, so the radius is $5.8 \div 2 = 2.9$ cm Cylinder volume = $\pi r^2 h$ $= \pi \cdot 2.9^2 \cdot 4.4 = \pi \cdot 8.41 \cdot 4.4 = 37.004\pi$ $= 116.25 \text{ cm}^3$ to 2 decimal places</p>	116.25 cm^3