

SNO :	WORKING	MARK S
1	$\sqrt{\frac{1408 \times 594 \times 12}{605 \times 125 \times 100}}$ $\sqrt{\frac{128 \times 54 \times 12}{5 \times 125 \times 100}}$ $\sqrt{\left[\frac{128 \times 9 \times 2 \times 3 \times 3 \times 2}{100 \times 625}\right]}$ $= \frac{72}{625}$	M1 M1 A1
		03
2	$ASF = \frac{48}{108} = \frac{4}{9}$ $LSF = \sqrt{\frac{4}{9}} = \frac{2}{3}$ $VSF = \left(\frac{2}{3}\right)^3 = \frac{8}{27}$ $Vol = \frac{8}{27} \times 162$ $= 48\text{cm}^3$	M1 M1 A1
		03
3	$0.5 \times 14 \times 8 \sin \theta = 28\text{m}^2$ $\sin \theta = 0.5$ $\theta = \sin^{-1}(0.5)$ $\theta = 30^\circ$	M1 A1
		02
4	<p>Tuesday-Thursday=24x3=72hours Monday=2400-0445=19hours 15minutes Friday=18hours 45minutes</p>	
	<p style="text-align: center;"><i>121/1 MATHS PP1 MARKING SCHEME</i></p> <p>Total time=72+19.25+18.75=110hours</p>	B1