Question 9 – 1:

9(a)	54[.0] or 53.99 to 54.03…	**6**	**M2** for $[h =]\ 95.4 \times 3 \div (\pi \times 2.4^2)$ oe or **M1** for $95.4 = \frac{1}{3} \times \pi \times 2.4^2 \times h$ **M2** for [slant ht , $l =$] $\sqrt{(their\ h)^2 + 2.4^2}$ or **M1** for $(their\ h)^2 + 2.4^2$ **M1** for $\frac{x}{360} \times 2 \times \pi \times their\ l = 2 \times \pi \times 2.4$ oe or $\frac{x}{360} \times \pi \times (their\ l)^2 = \pi \times 2.4 \times their\ l$

9(b)	14500 or 14470 to 14480	**4**	**M3** for $200 \times 60 \times 24 \times \pi \times 4^2$ [÷1000] or $2 \times 60 \times 24 \times \pi \times 0.04^2$ [×1000] or **M2** for $200 \times \pi \times 4^2$ or for $2 \times \pi \times 0.04^2$ or **M1** for $\pi \times 4^2$ oe or $\pi \times 0.04^2$ seen oe isw or 1000 cm^3 = 1 litre soi or 1 m^3 = 1000 litres soi or for 24×60 seen oe