

Maths Literacy Paper 2 – Suggested Solutions

Question 1:

$$\begin{aligned}1.1.1 \quad \text{Volume} &= \frac{1}{2} \pi r^2 h \\&= \frac{1}{2} \pi (4)^2 (5) \\&= 125,66 \text{ m}^3\end{aligned}\tag{4}$$

$$\begin{aligned}1.1.2 \quad \text{Volume} &= \text{Block} - \text{half cylinder} \\&= [4 \times (4 + 4) \times 5] - 125,66 \\&= 160 - 125,66 \\&= 34,34 \text{ m}^3\end{aligned}\tag{3}$$

$$\begin{aligned}1.2 \quad \text{Surface area} &= \text{Rectangle} - \text{semi-circle} \\&= (4 \times 8) - \frac{1}{2} \pi (4)^2 \\&= 32 - 25,13 \\&= 6,87 \text{ m}^2\end{aligned}\tag{3}$$

$$\begin{aligned}1.3 \quad \text{Surface area} &= \text{Two rectangles} + 2 \times 6,87 \\&= 2 \times (4 \times 5) + 2 \times 6,87 \\&= 53,74 \text{ m}^2\end{aligned}\tag{3}$$

$$\begin{aligned}1.4 \quad \text{Curved surface} &= \frac{1}{2} \times 2 \pi r h \\&= \pi (4)(5) \\&= 62,83 \text{ m}^2\end{aligned}\tag{3}$$

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