

Solutions

2.1 $(1/3) \times 3^2 \times 4 = 12$.

2.2 $(1/3) \times 36 \times 4 = 48$.

2.3 $96 - 12 = 84$.

3.1 False. Radius 3, perpendicular height 4 and slant height 5 give volume $(1/3)\pi \times 9 \times 4 = 12\pi$. Using 5 instead incorrectly gives 15π .

Local review guidance: show the chosen method; give the checked result; explain the condition or failed shortcut. This is authored classroom guidance.