

Name _____

Volume of Rectangular Pyramids Answer Key

1) $V = \frac{1}{3}(6)(4)(9) = \frac{1}{3}(216) = 72 \text{ cm}^3$

2) $V = \frac{1}{3}(10)(8)(12) = \frac{1}{3}(960) = 320 \text{ m}^3$

3) $V = \frac{1}{3}(7)(5)(11) = \frac{1}{3}(385) \approx 128.3 \text{ ft}^3$

4) $V = \frac{1}{3}(15)(9)(18) = \frac{1}{3}(2430) = 810 \text{ cm}^3$

5) $V = \frac{1}{3}(20)(14)(21) = \frac{1}{3}(5880) = 1960 \text{ m}^3$

6) $V = \frac{1}{3}(8)(6)(10) = \frac{1}{3}(480) = 160 \text{ in}^3$

7) $V = \frac{1}{3}A_{\text{base}}H \Rightarrow H = \frac{3V}{A_{\text{base}}} = \frac{3(180)}{60} = 9 \text{ cm}$

8) $V = \frac{1}{3}(12)(9)(10) = \frac{1}{3}(1080) = 360 \text{ m}^3$