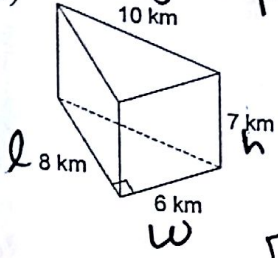


G1b: Solids: Extra Volume Practice

Find the volume of each figure. Round your answers to the nearest hundredth, if necessary.

1) triangular prism

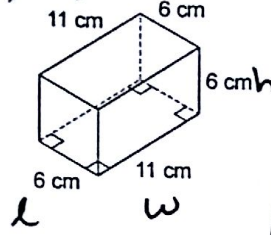


$$V = \frac{l \cdot w \cdot h}{2}$$

$$V = \frac{8(6)(10)}{2}$$

$$V = 168 \text{ km}^3$$

2) square prism

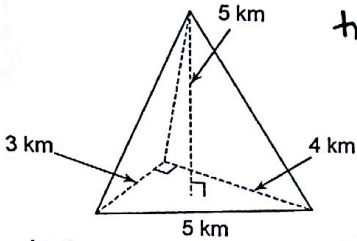


$$V = l \cdot w \cdot h$$

$$V = 6(6)(11)$$

$$V = 396 \text{ cm}^3$$

3)



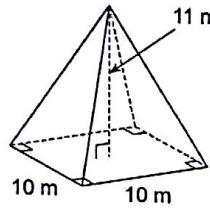
triangular pyramid

$$V = \frac{1}{3} (\text{area of base triangle}) \cdot h$$

$$V = \frac{1}{3} \left(\frac{3 \cdot 4}{2} \right) (5)$$

$$V = 10 \text{ km}^3$$

4)



square pyramid

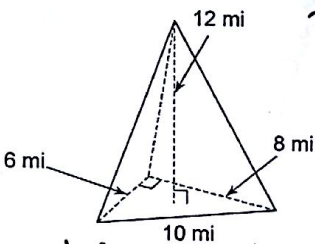
Area of base square

$$V = \frac{1}{3} (s^2) \cdot h$$

$$V = \frac{1}{3} (10 \cdot 10) \cdot 11$$

$$V = \frac{1100}{3} \text{ m}^3 \approx 366.67 \text{ m}^3$$

5)



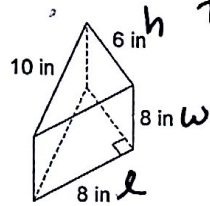
triangular pyramid

$$V = \frac{1}{3} (\text{area of base triangle}) \cdot h$$

$$V = \frac{1}{3} \left(\frac{6 \cdot 8}{2} \right) (10)$$

$$V = 96 \text{ mi}^3$$

6)



triangular prism

$$V = \frac{l \cdot w \cdot h}{2}$$

$$V = \frac{8(8)(6)}{2}$$

$$V = 192 \text{ in}^3$$

4) 506.67 m³

3) 10 km³

6) 192 in³
2) 396 cm³

5) 96 mi³
1) 100 km³