

Volume of Triangular Prisms

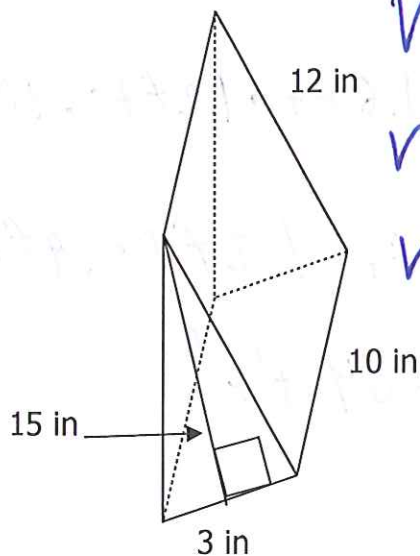
7th Grade Math

$$V = B \cdot h$$

Find the volume of the triangular prisms. Show your work and make sure your answers include units.

Name: Key

1.

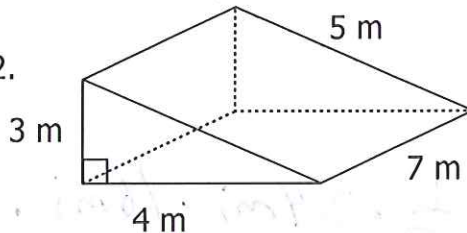


$$V = \frac{1}{2} \cdot 15 \text{ in} \cdot 3 \text{ in} \cdot 10 \text{ in}$$

$$V = 7.5 \text{ in} \cdot 3 \text{ in} \cdot 10 \text{ in}$$

$$V = 225 \text{ in}^3$$

2.

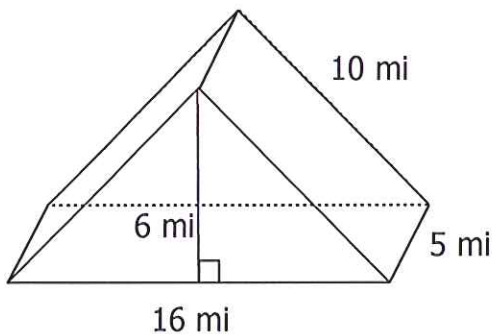


$$V = \frac{1}{2} \cdot 4 \text{ m} \cdot 3 \text{ m} \cdot 7 \text{ m}$$

$$V = 2 \text{ m} \cdot 3 \text{ m} \cdot 7 \text{ m}$$

$$V = 42 \text{ m}^3$$

3.

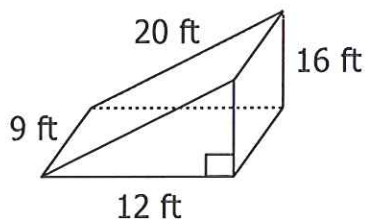


$$V = \frac{1}{2} \cdot 16 \text{ mi} \cdot 6 \text{ mi} \cdot 5 \text{ mi}$$

$$V = 8 \text{ mi} \cdot 6 \text{ mi} \cdot 5 \text{ mi}$$

$$V = 240 \text{ mi}^3$$

4.

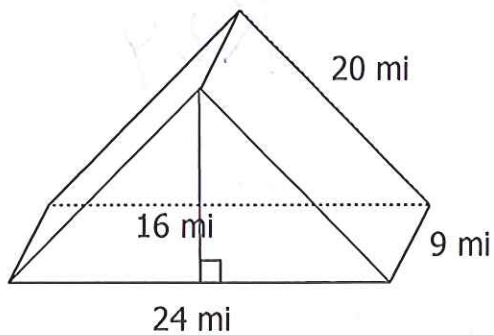


$$V = \frac{1}{2} \cdot 12 \text{ ft} \cdot 16 \text{ ft} \cdot 9 \text{ ft}$$

$$V = 6 \text{ ft} \cdot 16 \text{ ft} \cdot 9 \text{ ft}$$

$$V = 864 \text{ ft}^3$$

5.

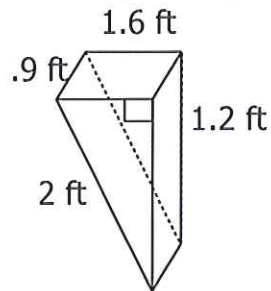


$$V = \frac{1}{2} \cdot 24 \text{ mi} \cdot 16 \text{ mi} \cdot 9 \text{ mi}$$

$$V = 12 \text{ mi} \cdot 16 \text{ mi} \cdot 9 \text{ mi}$$

$$V = 1,728 \text{ mi}^3$$

6.

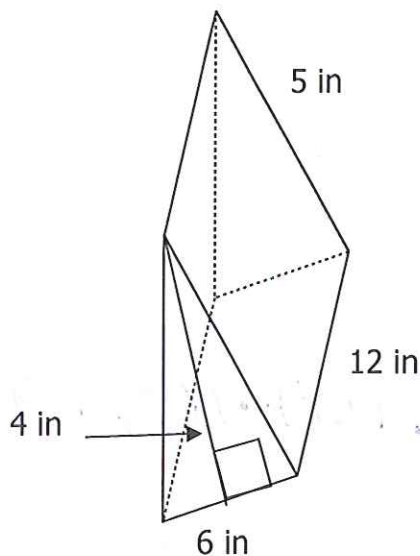


$$V = \frac{1}{2} \cdot 1.6 \text{ ft} \cdot 0.9 \text{ ft} \cdot 2 \text{ ft}$$

$$V = 0.8 \text{ ft} \cdot 0.9 \text{ ft} \cdot 2 \text{ ft}$$

$$V = 1.44 \text{ ft}^3$$

7.

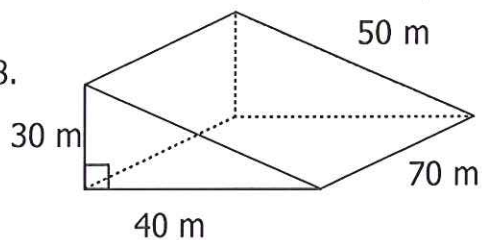


$$V = \frac{1}{2} \cdot 6 \text{ in} \cdot 4 \text{ in} \cdot 12 \text{ in}$$

$$V = 3 \text{ in} \cdot 4 \text{ in} \cdot 12 \text{ in}$$

$$V = 144 \text{ in}^3$$

8.



$$V = \frac{1}{2} \cdot 30 \text{ m} \cdot 40 \text{ m} \cdot 70 \text{ m}$$

$$V = 15 \text{ m} \cdot 40 \text{ m} \cdot 70 \text{ m}$$

$$V = 42,000 \text{ m}^3$$