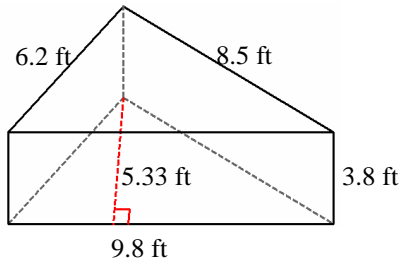


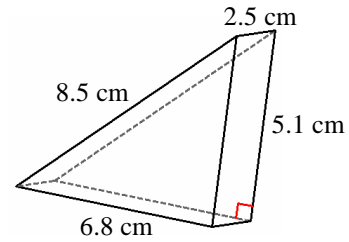
Volume and Surface Area of Triangular Prisms

Instructions: Find the volume and surface area for each triangular prism.

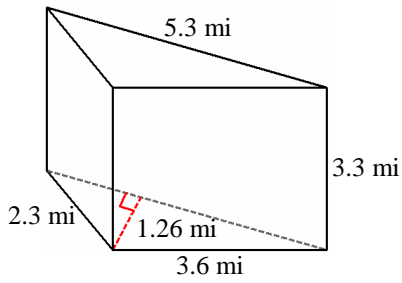
1)



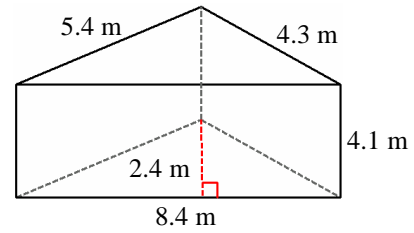
2)



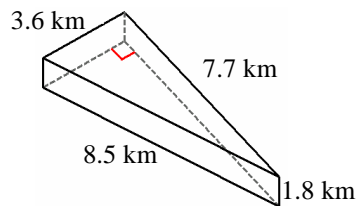
3)



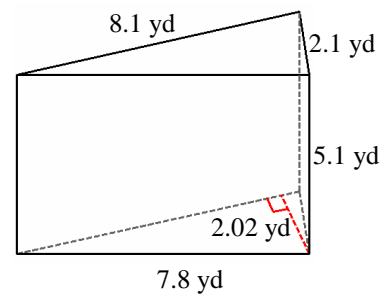
4)



5)



6)

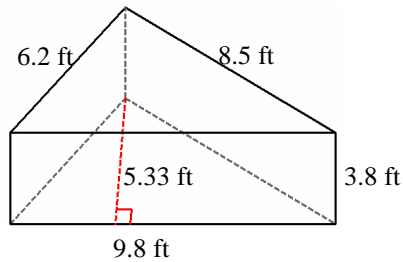


Volume and Surface Area of Triangular Prisms Answer

Instructions: Find the volume and surface area for each triangular prism.

Formula: Volume (V) = 0.5 x bhl, Surface Area (A) = bh+(s1+s2+s3)l

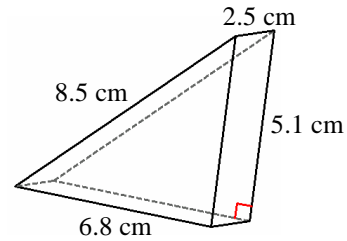
1)



$$V = 0.5 \times 9.8 \times 5.33 \times 3.8 = 99.2 \text{ ft}^3$$

$$A = (9.8 \times 5.33) + ((9.8 + 6.2 + 8.5) \times 3.8) = 145.3 \text{ ft}^2$$

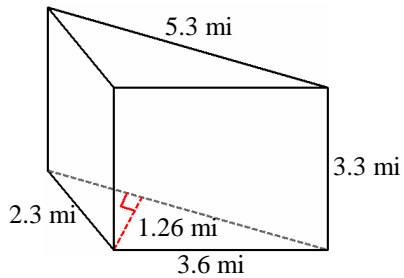
2)



$$V = 0.5 \times 6.8 \times 5.1 \times 2.5 = 43.4 \text{ cm}^3$$

$$A = (6.8 \times 5.1) + ((6.8 + 5.1 + 8.5) \times 2.5) = 85.7 \text{ cm}^2$$

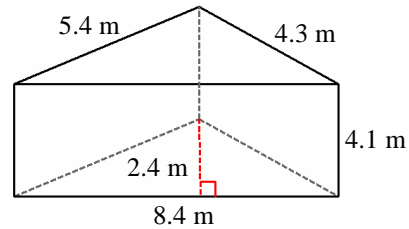
3)



$$V = 0.5 \times 5.3 \times 1.26 \times 3.3 = 11.0 \text{ mi}^3$$

$$A = (5.3 \times 1.26) + ((5.3 + 3.6 + 2.3) \times 3.3) = 43.6 \text{ mi}^2$$

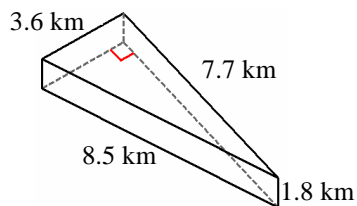
4)



$$V = 0.5 \times 8.4 \times 2.4 \times 4.1 = 41.3 \text{ m}^3$$

$$A = (8.4 \times 2.4) + ((8.4 + 5.4 + 4.3) \times 4.1) = 94.4 \text{ m}^2$$

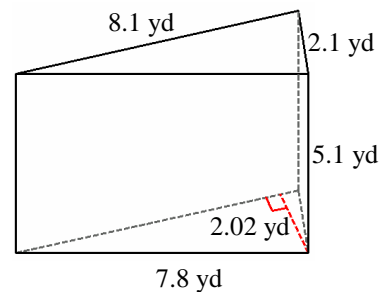
5)



$$V = 0.5 \times 3.6 \times 7.7 \times 1.8 = 24.9 \text{ km}^3$$

$$A = (3.6 \times 7.7) + ((3.6 + 7.7 + 8.5) \times 1.8) = 63.4 \text{ km}^2$$

6)



$$V = 0.5 \times 8.1 \times 2.02 \times 5.1 = 41.7 \text{ yd}^3$$

$$A = (8.1 \times 2.02) + ((8.1 + 2.1 + 7.8) \times 5.1) = 108.2 \text{ yd}^2$$