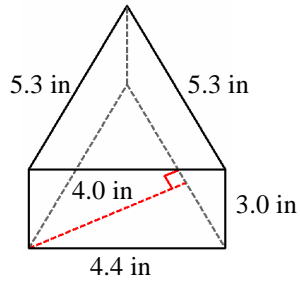


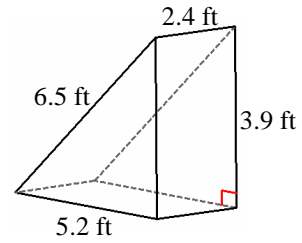
Volume and Surface Area of Triangular Prisms (C)

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

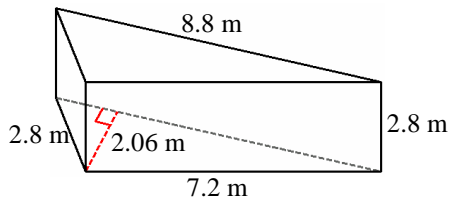
1)



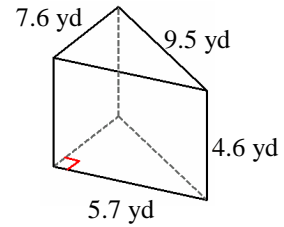
2)



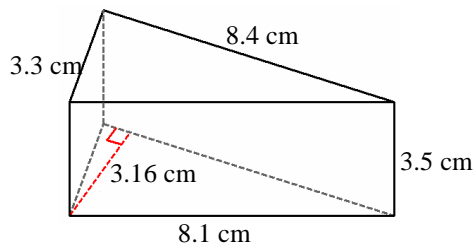
3)



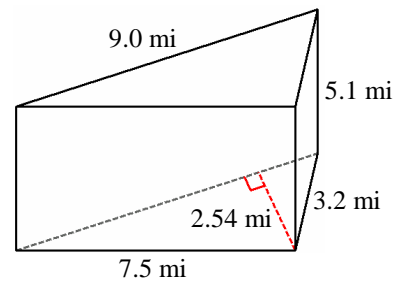
4)



5)



6)

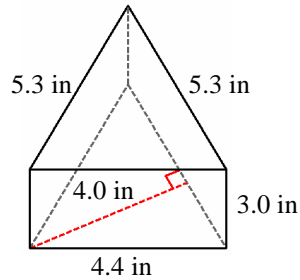


Volume and Surface Area of Triangular Prisms Answer (C)

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

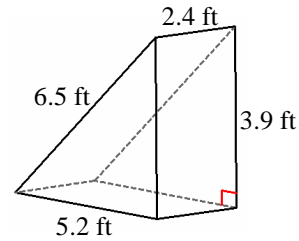
1)



$$V = 0.5 \times 5.3 \times 4.0 \times 3.0 = 31.8 \text{ in}^3$$

$$A = (5.3 \times 4.0) + ((5.3 + 5.3 + 4.4) \times 3.0) = 66.2 \text{ in}^2$$

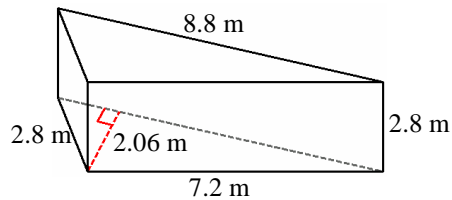
2)



$$V = 0.5 \times 5.2 \times 3.9 \times 2.4 = 24.3 \text{ ft}^3$$

$$A = (5.2 \times 3.9) + ((5.2 + 3.9 + 6.5) \times 2.4) = 57.7 \text{ ft}^2$$

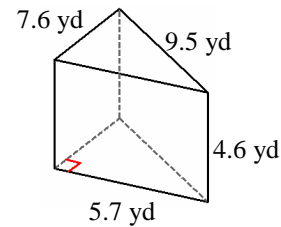
3)



$$V = 0.5 \times 8.8 \times 2.06 \times 2.8 = 25.4 \text{ m}^3$$

$$A = (8.8 \times 2.06) + ((8.8 + 2.8 + 7.2) \times 2.8) = 70.8 \text{ m}^2$$

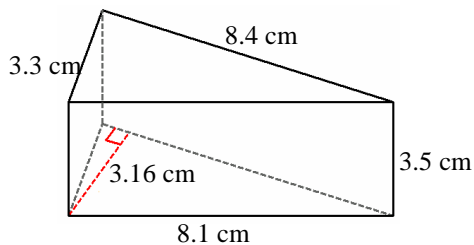
4)



$$V = 0.5 \times 5.7 \times 7.6 \times 4.6 = 99.6 \text{ yd}^3$$

$$A = (5.7 \times 7.6) + ((5.7 + 7.6 + 9.5) \times 4.6) = 148.2 \text{ yd}^2$$

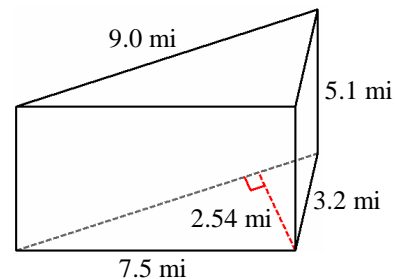
5)



$$V = 0.5 \times 8.4 \times 3.16 \times 3.5 = 46.5 \text{ cm}^3$$

$$A = (8.4 \times 3.16) + ((8.4 + 8.1 + 3.3) \times 3.5) = 95.8 \text{ cm}^2$$

6)



$$V = 0.5 \times 9.0 \times 2.54 \times 5.1 = 58.3 \text{ mi}^3$$

$$A = (9.0 \times 2.54) + ((9.0 + 3.2 + 7.5) \times 5.1) = 123.3 \text{ mi}^2$$