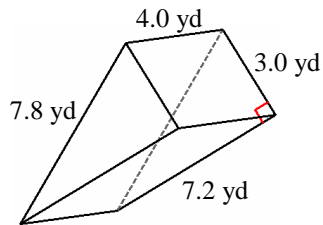


Volume and Surface Area of Triangular Prisms Answer (B)

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

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

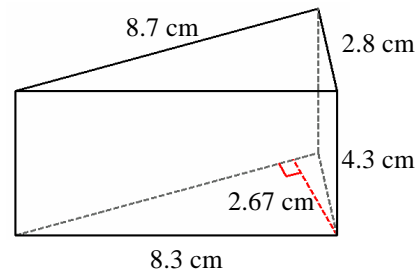
1)



$$V = 0.5 \times 7.2 \times 3.0 \times 7.8 = 43.2 \text{ yd}^3$$

$$A = (7.2 \times 3.0) + ((7.2 + 3.0 + 4.0) \times 7.8) = 93.6 \text{ yd}^2$$

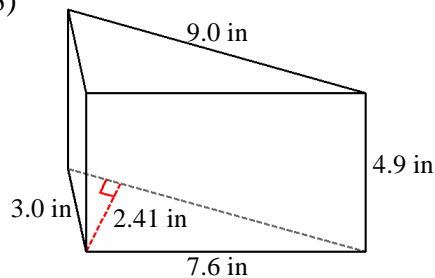
2)



$$V = 0.5 \times 8.7 \times 2.67 \times 4.3 = 49.9 \text{ cm}^3$$

$$A = (8.7 \times 2.67) + ((8.7 + 2.8 + 8.3) \times 4.3) = 108.4 \text{ cm}^2$$

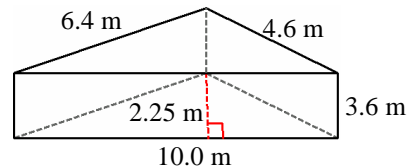
3)



$$V = 0.5 \times 9.0 \times 2.41 \times 4.9 = 53.1 \text{ in}^3$$

$$A = (9.0 \times 2.41) + ((9.0 + 7.6 + 3.0) \times 4.9) = 117.7 \text{ in}^2$$

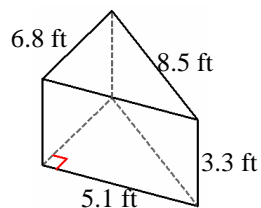
4)



$$V = 0.5 \times 10.0 \times 2.25 \times 3.6 = 40.5 \text{ m}^3$$

$$A = (10.0 \times 2.25) + ((10.0 + 6.4 + 4.6) \times 3.6) = 98.1 \text{ m}^2$$

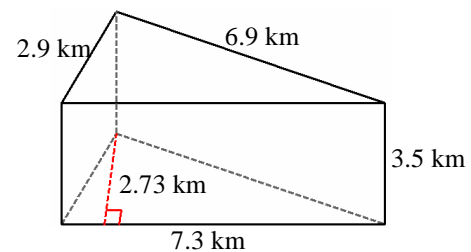
5)



$$V = 0.5 \times 5.1 \times 6.8 \times 3.3 = 57.2 \text{ ft}^3$$

$$A = (5.1 \times 6.8) + ((5.1 + 6.8 + 8.5) \times 3.3) = 102.0 \text{ ft}^2$$

6)



$$V = 0.5 \times 7.3 \times 2.73 \times 3.5 = 34.9 \text{ km}^3$$

$$A = (7.3 \times 2.73) + ((7.3 + 2.9 + 6.9) \times 3.5) = 79.8 \text{ km}^2$$