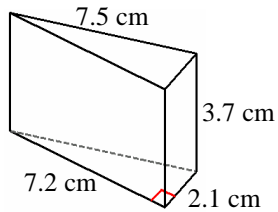


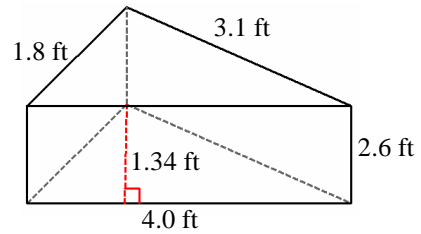
Volume and Surface Area of Triangular Prisms (J)

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

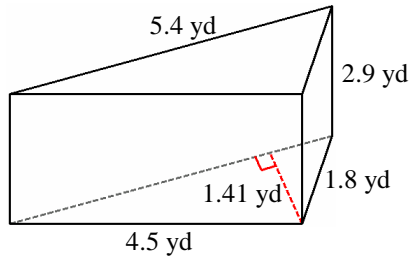
1)



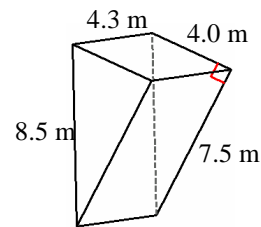
2)



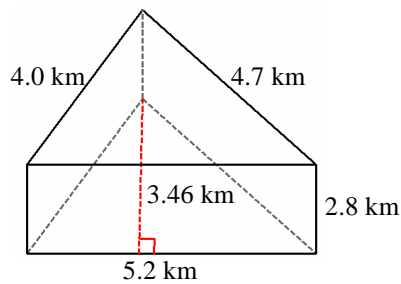
3)



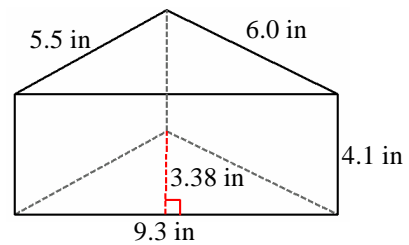
4)



5)



6)

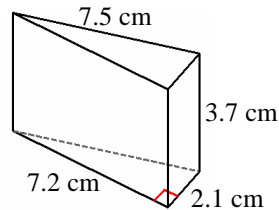


Volume and Surface Area of Triangular Prisms Answer (J)

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

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

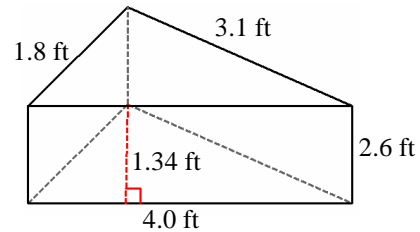
1)



$$V = 0.5 \times 2.1 \times 7.2 \times 3.7 = 28.0 \text{ cm}^3$$

$$A = (2.1 \times 7.2) + ((2.1 + 7.2 + 7.5) \times 3.7) = 77.3 \text{ cm}^2$$

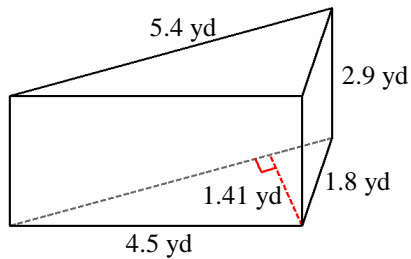
2)



$$V = 0.5 \times 4.0 \times 1.34 \times 2.6 = 7.0 \text{ ft}^3$$

$$A = (4.0 \times 1.34) + ((4.0 + 1.8 + 3.1) \times 2.6) = 28.5 \text{ ft}^2$$

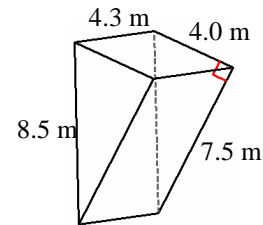
3)



$$V = 0.5 \times 5.4 \times 1.41 \times 2.9 = 11.0 \text{ yd}^3$$

$$A = (5.4 \times 1.41) + ((5.4 + 4.5 + 1.8) \times 2.9) = 41.5 \text{ yd}^2$$

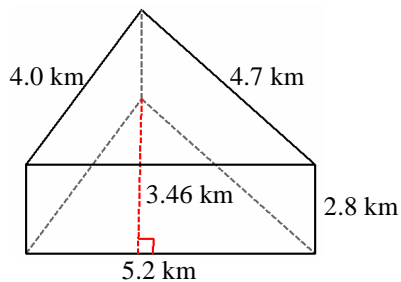
4)



$$V = 0.5 \times 7.5 \times 4.0 \times 8.5 = 64.5 \text{ m}^3$$

$$A = (7.5 \times 4.0) + ((7.5 + 4.0 + 8.5) \times 8.5) = 116.0 \text{ m}^2$$

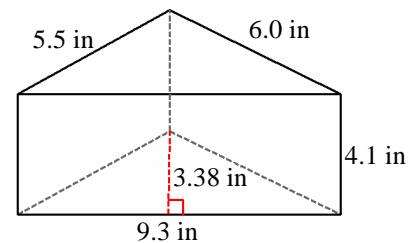
5)



$$V = 0.5 \times 5.2 \times 3.46 \times 2.8 = 25.2 \text{ km}^3$$

$$A = (5.2 \times 3.46) + ((5.2 + 4.0 + 4.7) \times 2.8) = 56.9 \text{ km}^2$$

6)



$$V = 0.5 \times 9.3 \times 3.38 \times 4.1 = 64.4 \text{ in}^3$$

$$A = (9.3 \times 3.38) + ((9.3 + 5.5 + 6.0) \times 4.1) = 116.7 \text{ in}^2$$