

Triangular Prisms (C)

Name: _____

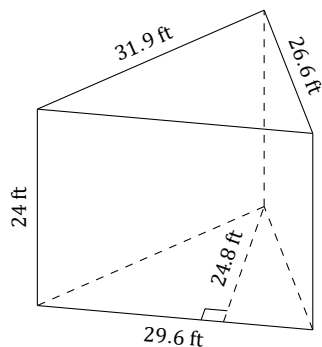
Date: _____

Calculate the volume and surface area of each triangular prism.

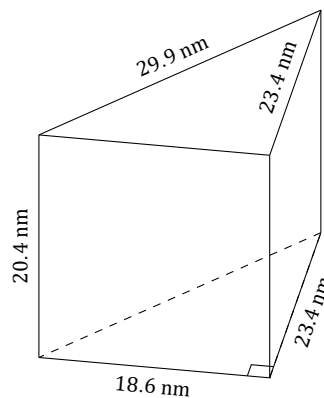
Volume is equal to the Area of the Base \times the Prism Length = $0.5 \times b \times h \times l$

Surface Area is equal to the Perimeter of the Base \times the Prism Length + Twice the Area of the Base = $(P \times l) + (b \times h)$

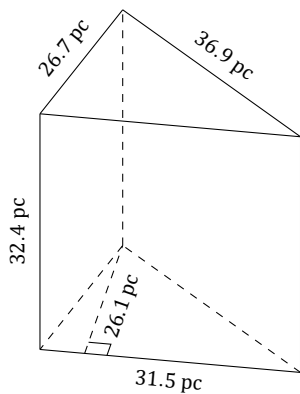
1.



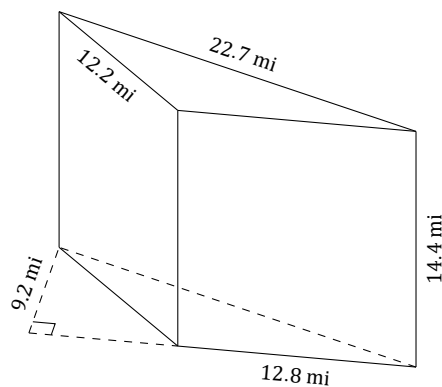
2.



3.



4.



Triangular Prisms (C) Answers

Name: _____

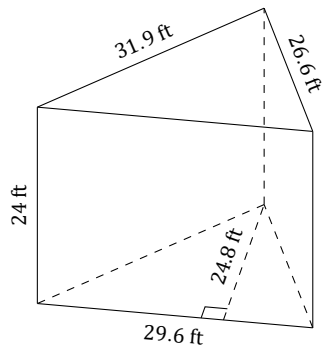
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1.



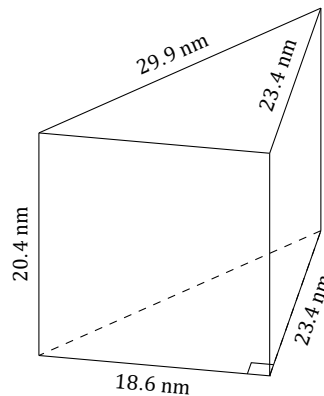
$$V = 0.5 \times 29.6 \times 24.8 \times 24$$

$$V = 8808.96 \text{ ft}^3$$

$$SA = ((29.6 + 26.6 + 31.9) \times 24) + (29.6 \times 24.8)$$

$$SA = 2848.48 \text{ ft}^2$$

2.



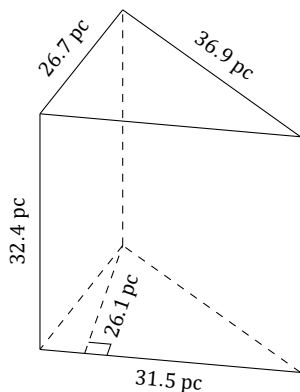
$$V = 0.5 \times 18.6 \times 23.4 \times 20.4$$

$$V = 4439.448 \text{ nm}^3$$

$$SA = ((18.6 + 23.4 + 29.9) \times 20.4) + (18.6 \times 23.4)$$

$$SA = 1902 \text{ nm}^2$$

3.



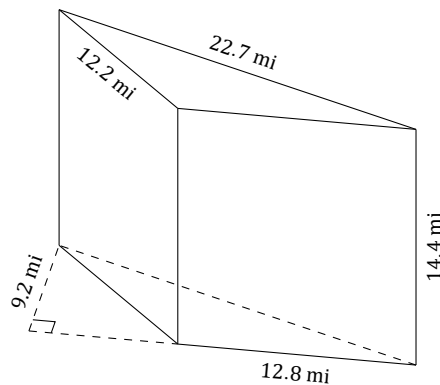
$$V = 0.5 \times 31.5 \times 26.1 \times 32.4$$

$$V = 13,318.83 \text{ pc}^3$$

$$SA = ((31.5 + 36.9 + 26.7) \times 32.4) + (31.5 \times 26.1)$$

$$SA = 3903.39 \text{ pc}^2$$

4.



$$V = 0.5 \times 12.8 \times 9.2 \times 14.4$$

$$V = 847.872 \text{ mi}^3$$

$$SA = ((12.8 + 22.7 + 12.2) \times 14.4) + (12.8 \times 9.2)$$

$$SA = 804.64 \text{ mi}^2$$