

Triangular Prisms (E)

Name: _____

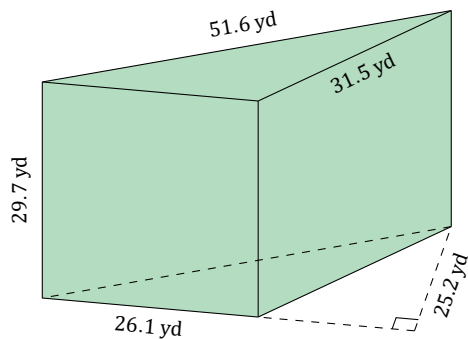
Date: _____

Calculate the volume and surface area of each triangular prism.

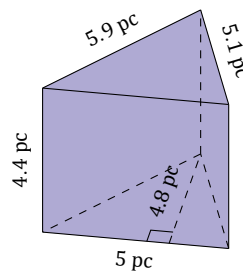
Volume is equal to the Area of the Base \times the Prism Length = $0.5 \times b \times h \times l$

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

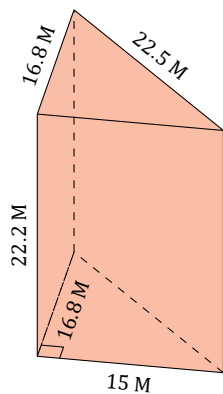
1.



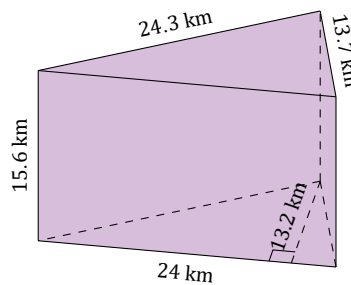
2.



3.



4.



Triangular Prisms (E) Answers

Name: _____

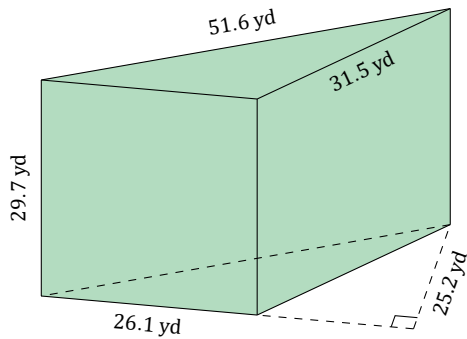
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1.



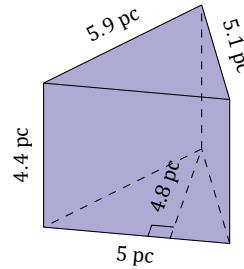
$$V = 0.5 \times 26.1 \times 25.2 \times 29.7$$

$$V = 9767.142 \text{ yd}^3$$

$$SA = ((26.1 + 31.5 + 51.6) \times 29.7) + (26.1 \times 25.2)$$

$$SA = 3900.96 \text{ yd}^2$$

2.



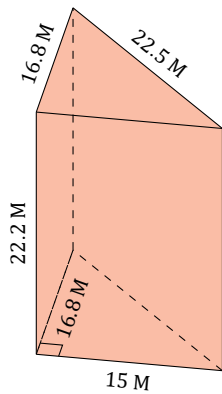
$$V = 0.5 \times 5 \times 4.8 \times 4.4$$

$$V = 52.8 \text{ pc}^3$$

$$SA = ((5 + 5.1 + 5.9) \times 4.4) + (5 \times 4.8)$$

$$SA = 94.4 \text{ pc}^2$$

3.



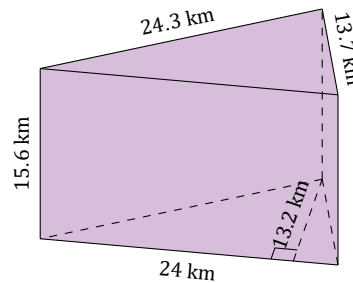
$$V = 0.5 \times 15 \times 16.8 \times 22.2$$

$$V = 2797.2 \text{ M}^3$$

$$SA = ((15 + 22.5 + 16.8) \times 22.2) + (15 \times 16.8)$$

$$SA = 1457.46 \text{ M}^2$$

4.



$$V = 0.5 \times 24 \times 13.2 \times 15.6$$

$$V = 2471.04 \text{ km}^3$$

$$SA = ((24 + 13.7 + 24.3) \times 15.6) + (24 \times 13.2)$$

$$SA = 1284 \text{ km}^2$$