

Triangular Prisms (F)

Name: _____

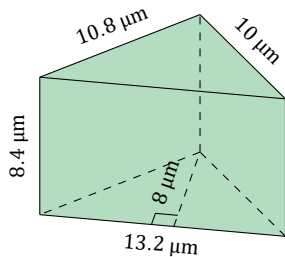
Date: _____

Calculate the volume and surface area of each triangular prism.

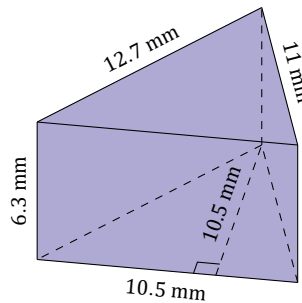
Volume is equal to the Area of the Base \times the Prism Length = $0.5 \times b \times h \times l$

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

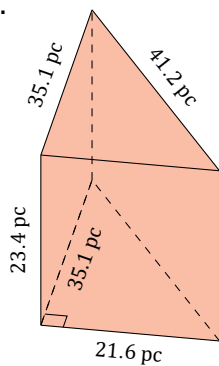
1.



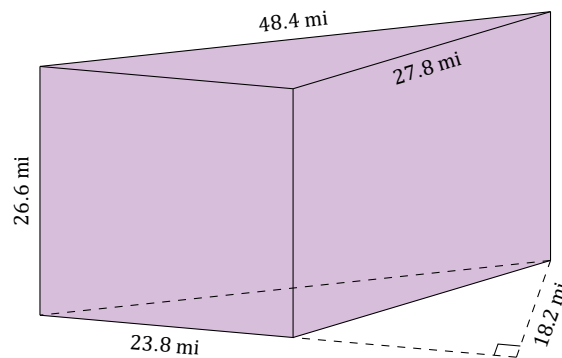
2.



3.



4.



Triangular Prisms (F) Answers

Name: _____

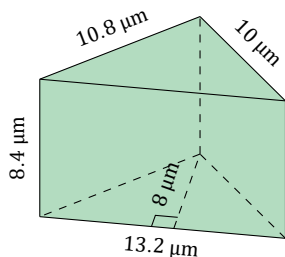
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1.



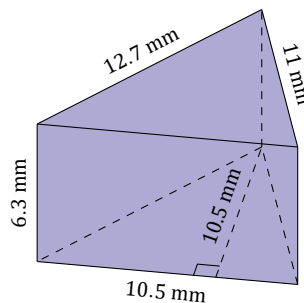
$$V = 0.5 \times 13.2 \times 8 \times 8.4$$

$$V = 443.52 \mu\text{m}^3$$

$$SA = ((13.2 + 10 + 10.8) \times 8.4) + (13.2 \times 8)$$

$$SA = 391.2 \mu\text{m}^2$$

2.



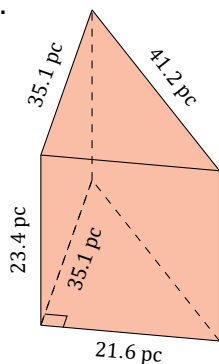
$$V = 0.5 \times 10.5 \times 10.5 \times 6.3$$

$$V = 347.2875 \text{ mm}^3$$

$$SA = ((10.5 + 11 + 12.7) \times 6.3) + (10.5 \times 10.5)$$

$$SA = 325.71 \text{ mm}^2$$

3.



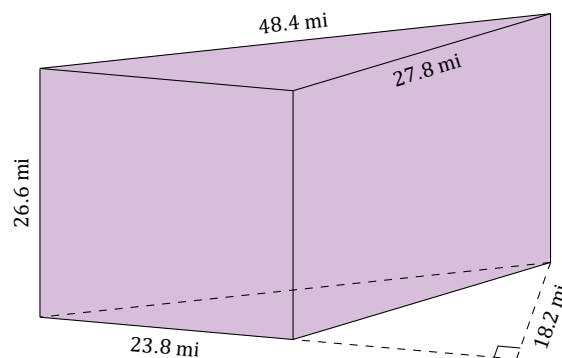
$$V = 0.5 \times 21.6 \times 35.1 \times 23.4$$

$$V = 8870.472 \text{ pc}^3$$

$$SA = ((21.6 + 41.2 + 35.1) \times 23.4) + (21.6 \times 35.1)$$

$$SA = 3049.02 \text{ pc}^2$$

4.



$$V = 0.5 \times 23.8 \times 18.2 \times 26.6$$

$$V = 5761.028 \text{ mi}^3$$

$$SA = ((23.8 + 27.8 + 48.4) \times 26.6) + (23.8 \times 18.2)$$

$$SA = 3093.16 \text{ mi}^2$$