

# Triangular Prisms (B)

Name: \_\_\_\_\_

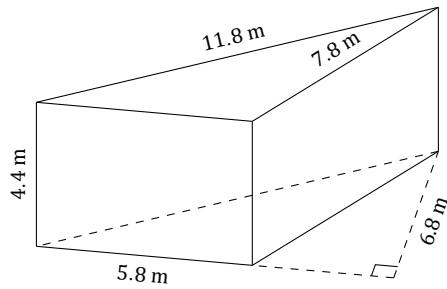
Date: \_\_\_\_\_

**Calculate the volume and surface area of each triangular prism.**

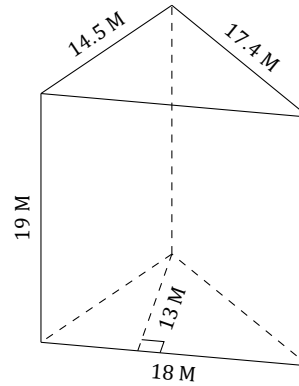
Volume is equal to the Area of the Base  $\times$  the Prism Length =  $0.5 \times b \times h \times l$

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

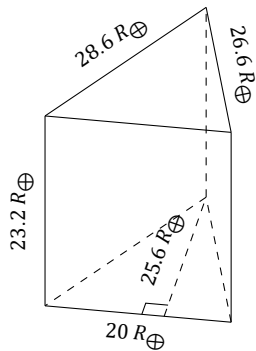
1.



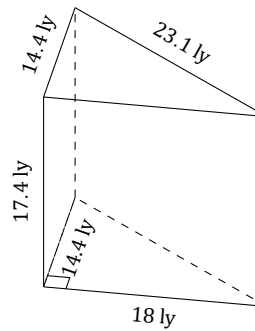
2.



3.



4.



# Triangular Prisms (B) Answers

Name: \_\_\_\_\_

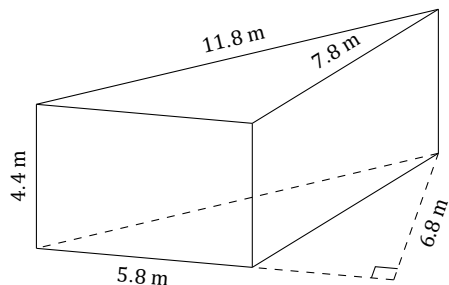
Date: \_\_\_\_\_

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

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1.



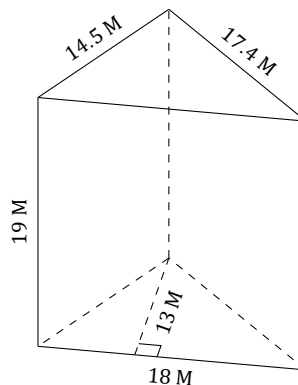
$$V = 0.5 \times 5.8 \times 6.8 \times 4.4$$

$$V = 86.768 \text{ m}^3$$

$$SA = ((5.8 + 7.8 + 11.8) \times 4.4) + (5.8 \times 6.8)$$

$$SA = 151.2 \text{ m}^2$$

2.



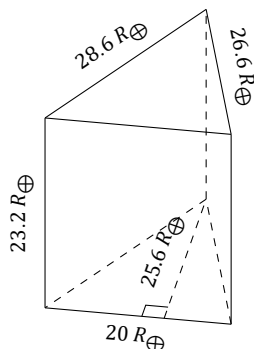
$$V = 0.5 \times 18 \times 13 \times 19$$

$$V = 2223 \text{ M}^3$$

$$SA = ((18 + 17.4 + 14.5) \times 19) + (18 \times 13)$$

$$SA = 1182.1 \text{ M}^2$$

3.



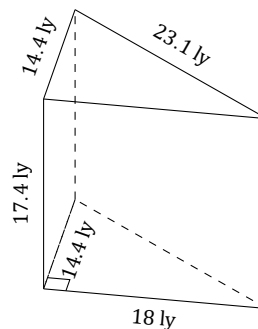
$$V = 0.5 \times 20 \times 25.6 \times 23.2$$

$$V = 5939.2 \text{ R}^3$$

$$SA = ((20 + 26.6 + 28.6) \times 23.2) + (20 \times 25.6)$$

$$SA = 2256.64 \text{ R}^2$$

4.



$$V = 0.5 \times 18 \times 14.4 \times 17.4$$

$$V = 2255.04 \text{ ly}^3$$

$$SA = ((18 + 23.1 + 14.4) \times 17.4) + (18 \times 14.4)$$

$$SA = 1224.9 \text{ ly}^2$$