

VOLUME OF TRIANGULAR PRISMS

Name: _____ Class: _____ Due Date: _____

Family Member Signature: _____

Objective: To practice determining the volume of triangular prisms.

Necessary Information:

Students have learned that a triangular prism is just a stack of triangles. If we know the area of one triangle, we can multiply that by how tall (or long) the prism is to find the volume.

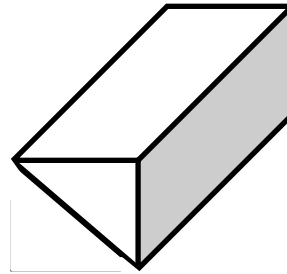
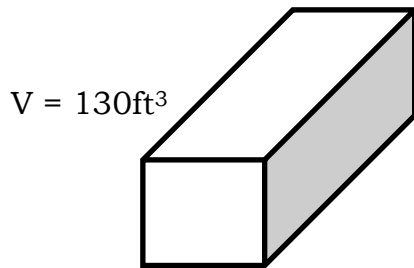
$$A_{\text{triangle}} = b \times h \div 2$$

$$V_{\text{triangular prism}} = A_{\text{triangle}} \times h_{\text{prism}}$$

Calculators are allowed.

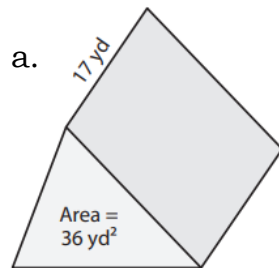
Practice Section:

1. If the volume of the rectangular prism is 130ft^3 , what is the volume of the related triangular prism?



$V = \underline{\hspace{2cm}}$

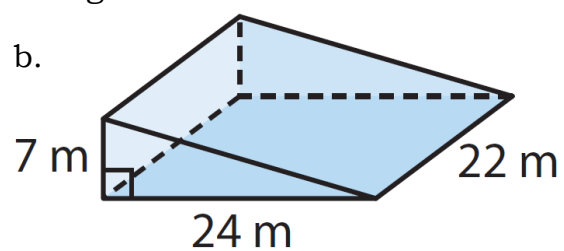
2. Determine the volume of each of the following.



$A_{\text{base}} = \underline{\hspace{2cm}}$

$h_{\text{prism}} = \underline{\hspace{2cm}}$

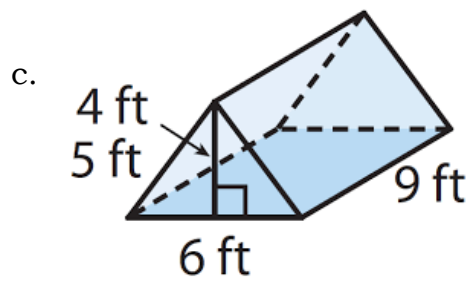
$V_{\text{prism}} = \underline{\hspace{2cm}}$



$A_{\text{base}} = \underline{\hspace{2cm}}$

$h_{\text{prism}} = \underline{\hspace{2cm}}$

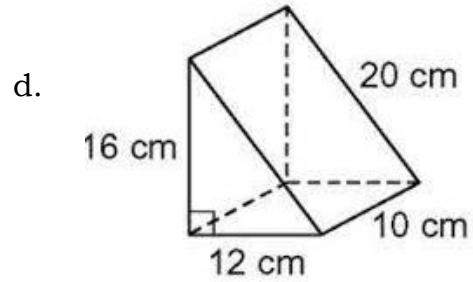
$V_{\text{prism}} = \underline{\hspace{2cm}}$



$A_{\text{base}} = \underline{\hspace{2cm}}$

$h_{\text{prism}} = \underline{\hspace{2cm}}$

$V_{\text{prism}} = \underline{\hspace{2cm}}$

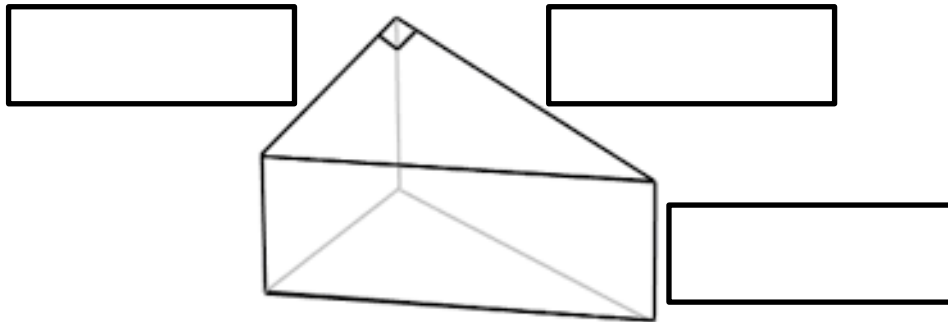


$A_{\text{base}} = \underline{\hspace{2cm}}$

$h_{\text{prism}} = \underline{\hspace{2cm}}$

$V_{\text{prism}} = \underline{\hspace{2cm}}$

3. Put numbers on the triangular prism so that the volume is 24 m^3 .



In Your Real World:

With a family member, find the volume of this 4.5 kg bar of chocolate!



$A_{\text{base}} = \underline{\hspace{2cm}}$

$h_{\text{prism}} = \underline{\hspace{2cm}}$

$V_{\text{prism}} = \underline{\hspace{2cm}}$

