

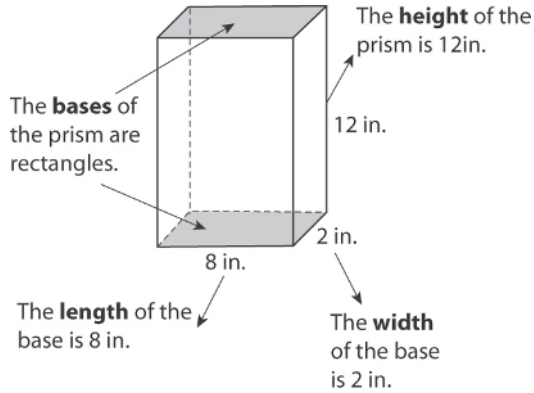
**LESSON**  
**10-1**

**Volume of Rectangular Prisms and Pyramids**

*Success for English Learners*

**Problem 1**

Find the volume.

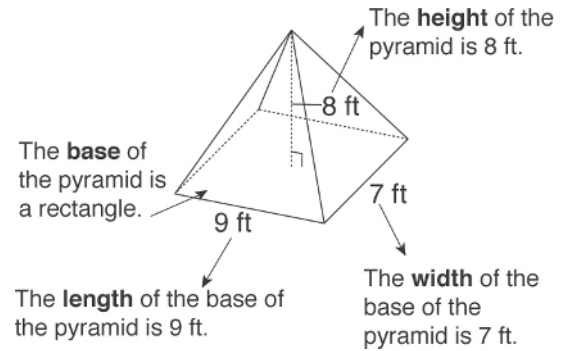


$$\begin{aligned}
 B &= lw && \frac{l = 8, w = 2}{=} \\
 &= 8 \cdot 2 \\
 &= 16 \text{ in}^2 \\
 V &= Bh && \frac{B = 16, h = 12}{=} \\
 &= 16 \cdot 12 \\
 &= 192 \text{ in}^3
 \end{aligned}$$

The volume is  $192 \text{ in}^3$ .

**Problem 2**

Find the volume.



$$\begin{aligned}
 B &= lw && \frac{l = 9, w = 7}{=} \\
 &= 9 \cdot 7 \\
 &= 63 \text{ ft}^2 \\
 V &= \frac{1}{3} Bh && \frac{B = 63, h = 8}{=} \\
 &= \frac{1}{3} \cdot 63 \cdot 8 \\
 &= 168 \text{ ft}^3
 \end{aligned}$$

The volume is  $168 \text{ ft}^3$ .

1. Explain why the volume in Problem 1 is  $192 \text{ in}^3$  instead of 192 inches.

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2. How do you find the volume of a pyramid if the base is a square?

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