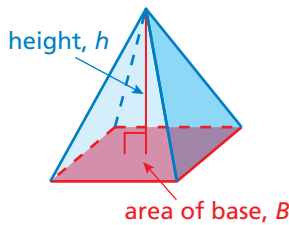


REVIEW: Volumes of Pyramids

Name _____

Key Concept and Vocabulary



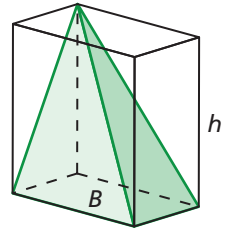
$$V = \frac{1}{3}Bh$$

Volume

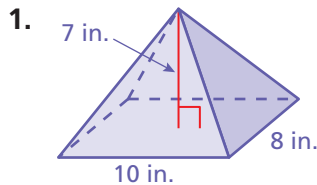


Visual Model

The volume of a pyramid is *one-third* the volume of the prism that has the same base and height.



Skill Example

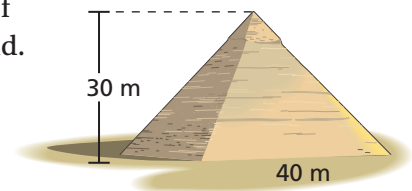


$$\begin{aligned} V &= \frac{1}{3}Bh \\ &= \frac{1}{3} \cdot (8 \cdot 10) \cdot 7 \\ &= \frac{560}{3} \\ &= 185\frac{2}{3} \text{ in.}^3 \end{aligned}$$

Application Example

2. Find the volume of the square pyramid.

$$\begin{aligned} V &= \frac{1}{3} \cdot (40^2) \cdot 30 \\ &= 16,000 \end{aligned}$$



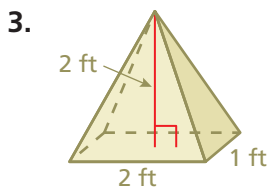
∴ The volume is 16,000 cubic meters.

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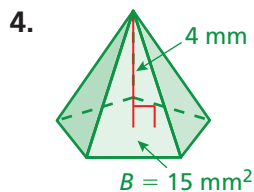


Check your answers at BigIdeasMath.com.

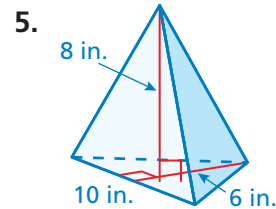
Find the volume of the pyramid.



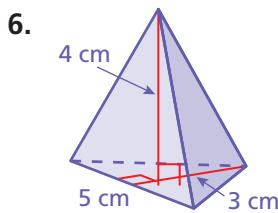
$V =$ _____



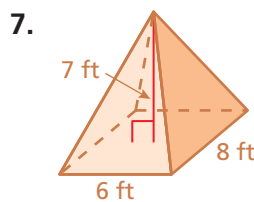
$V =$ _____



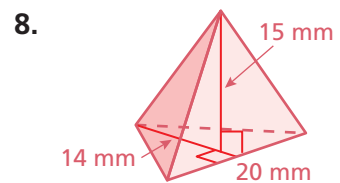
$V =$ _____



$V =$ _____



$V =$ _____



$V =$ _____

9. **PYRAMID** The pyramid has a volume of 2000 cubic feet. Find a set of possible dimensions for the pyramid.

$w =$ _____, $l =$ _____, $h =$ _____

