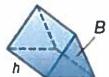
V=Bh B= =bh

Chapter 10 Lesson 2 Volume of Triangular Prisms

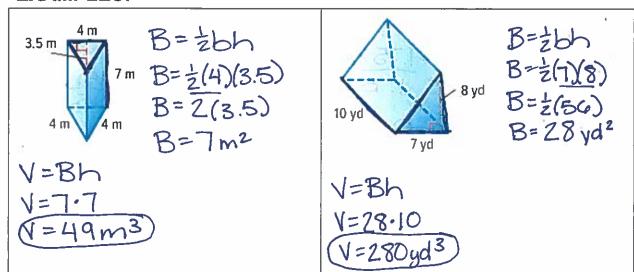
A triangular prism is a prism with parallel and congruent triangular bases. The formula for the volume of any prism is V = Bh, where B is the area of the base and h is the height of the prism.



$$V = Bh_{\text{prism}}$$
 where $B = \frac{1}{2}bh_{\text{base}}$

Prism height = connects the bases or the triangles.

EXAMPLES:

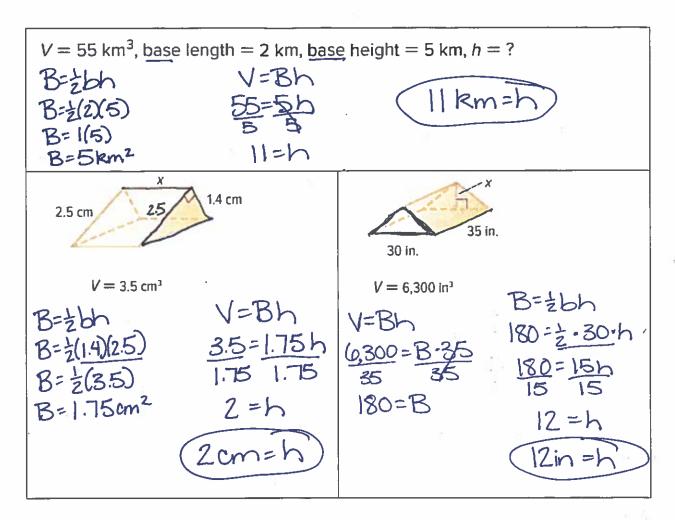


Find the volume of a triangular prism-shaped model with a <u>base</u> of 32 square centimeters and a height of 6 centimeters.

$$V=Bh$$

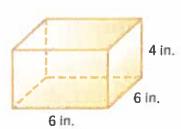
 $V=32.6$
 $V=192 cm^3$

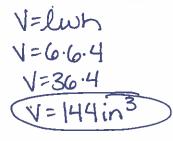
Find the Missing Dimensions of a Triangular Prism: replace the variables with known measurements. Then solve for the unknown measurement.

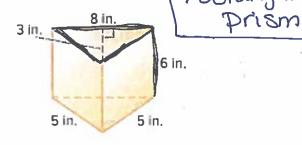


Persevere with Problems A candy company sells mints in two different containers. Which container shown below holds more mints?

Justify your answer.







$$B = \pm 18$$
 B = ± 18 B = ± 18

$$V = Bh$$

 $V = 12.6$
 $V = 72.in^3$