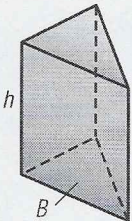


Lesson 2 Reteach

Volume of Triangular Prisms

Volume of a Triangular Prism	
<p>Words The volume V of a triangular prism is the area of the base B times the height h.</p>	<p>Model</p> 
<p>Symbols $V = Bh$, where $B = \frac{1}{2}bh$</p>	

Example 1

Find the volume of the triangular prism.

The area of the triangle is $\frac{1}{2} \cdot 4 \cdot 5$, so replace B with $\frac{1}{2} \cdot 4 \cdot 5$.

$$V = Bh$$

Volume of a prism

$$V = \left(\frac{1}{2} \cdot 4 \cdot 5\right)(h)$$

Replace B with $\frac{1}{2} \cdot 4 \cdot 5$.

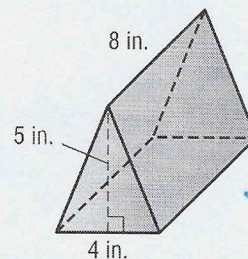
$$V = \left(\frac{1}{2} \cdot 4 \cdot 5\right)(8)$$

Replace h with 8, the height of the prism.

$$V = 80$$

Multiply.

The volume is 80 cubic inches or 80 in^3 .



Example 2

Find the volume of the triangular prism.

$$V = Bh$$

Volume of a prism

$$V = \left(\frac{1}{2} \cdot 7 \cdot 10\right)(h)$$

Replace B with $\frac{1}{2} \cdot 7 \cdot 10$.

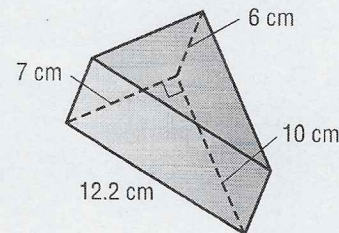
$$V = \left(\frac{1}{2} \cdot 7 \cdot 10\right)(6)$$

Replace h with 6, the height of the prism.

$$V = 210$$

Multiply.

The volume is 210 cubic centimeters or 210 cm^3 .



Exercises

Find the volume of each prism. Round to the nearest tenth if necessary.

