Lesson 11-9

Example 1 Volume of a Rectangular Prism
Find the volume of the rectangular prism.

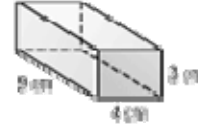$V = \ell wh$ Volume of a rectangular prism
$V = 4 \cdot 9 \cdot 3$ Replace ℓ with 4, w with 9, and h with 3.
$V = 108$ Multiply.

The volume is 108 cubic centimeters.

Example 2 Volume of a Rectangular Prism
PASTA Find the volume of a box of pasta that is 12 inches in length, 3 inches in width, and 2 inches in height.

$V = \ell wh$ Volume of a rectangular prism
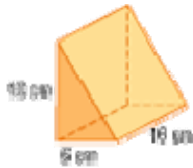$V = 12 \cdot 3 \cdot 2$ Replace ℓ with 12, w with 3, and h with 2.
$V = 72$ Multiply.

The volume of the box of pasta is 72 cubic inches.

Example 3 Volume of a Triangular Prism
Find the volume of the triangular prism shown.

$V = Bh$ Volume of a prism
$V = \left(\dfrac{1}{2} \cdot 6 \cdot 10 \right) h$ Replace B with $\dfrac{1}{2} \cdot 6 \cdot 10$.
$V = \left(\dfrac{1}{2} \cdot 6 \cdot 10 \right) 16$ The height of the prism is 16.
$V = 480$ Multiply.

The volume is 480 cubic centimeters or 480 cm^3.