## Volume and Stacks

Name $\qquad$ Date $\qquad$
Reference the diagram below and the formula for Volume:
[ $\mathrm{V}=\mathrm{I} \times \mathrm{w} \times \mathrm{h}$; $\mathrm{V}=$ volume, $\mathrm{I}=$ length, $\mathrm{w}=$ width, $\mathrm{h}=$ height
to answer the following questions.
Stacks Biscuit Bakery Box


A Bit About the Stacks Biscuit Bakery Box:
The Stacks Biscuit Bakery Box was believed to be Betty Branford's best baked goods bin design. It's dimensions were promoted by packers to have been produced with particularly puncture proof paper portraying a $12 \times 10 \times 8$ inch package.

## Exercises:

1. What is the volume of a Stacks Biscuit Bakery Box?
$\left[\mathrm{v}=12 \times 10 \times 8=960\right.$ inches $^{3}$ or 960 cubic inches ]
2. What is the total volume of three Stacks Biscuit Bakery Boxes?

3. Betty Branford had a bunker behind Stacks Biscuit Bakery built with walls of: 6 boxes long by 6 boxes tall! What was the volume of one of her bunker walls?
$\underline{\left[v=12 \times 10 \times 8=960 \text { inches }^{3}\right.}$ or 960 cubic inches $] \times(6 \times 6)=[36 \times 960=34,560$ cubic inches $]$
$\qquad$

Connections:
How are rectangular shapes perfectly suited for multiplication or addition strategies?

