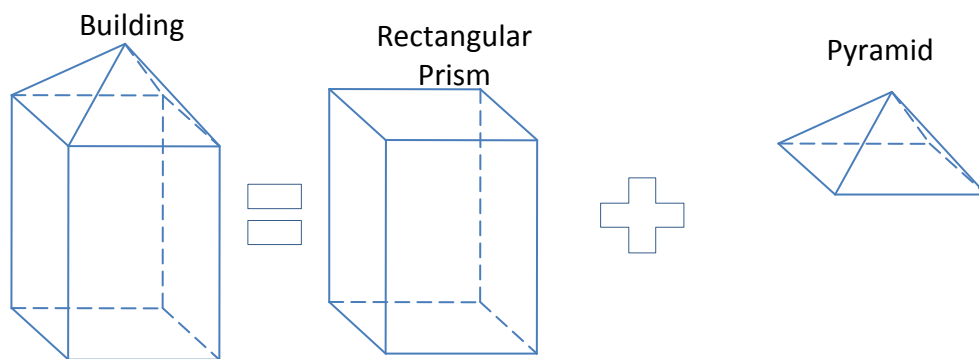
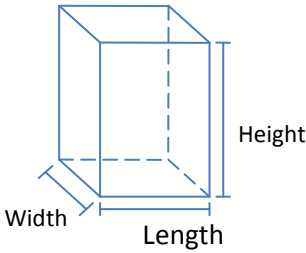
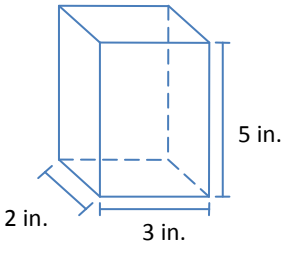
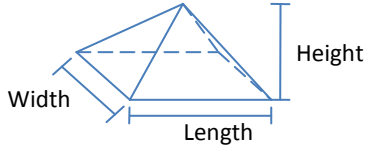
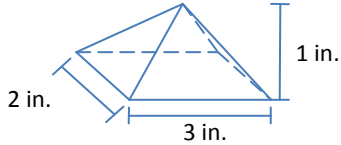


# How to Calculate Volume

One important aspect of your structure is how much useable space it has. Volume is a measure of how much space your building contains. There are two main shapes that a building can have, the rectangular prism and the pyramid. Do not worry if your building does not form a pyramid, because they are not required (but could be useful for increasing your building volume). Below are some examples of how you can calculate your building volume.



<b>Rectangular Prism Volume</b>  $\text{Volume} = \text{Length} \times \text{Height} \times \text{Width}$  <b>Example:</b> $\text{Volume} = (3 \text{ in.}) \times (5 \text{ in.}) \times (2 \text{ in.})$ $= 30 \text{ in.}^3$		
<b>Pyramid Volume</b>  $\text{Volume} = 1/3 \times \text{Length} \times \text{Width} \times \text{Height}$  <b>Example:</b> $\text{Volume} = (1/3) \times (3 \text{ in.}) \times (2 \text{ in.}) \times (1 \text{ in.})$ $= 2 \text{ in.}^3$		
<b>Triangular Prism Volume</b>  $\text{Volume} = 1/2 \times \text{Length} \times \text{Width} \times \text{Height}$  <b>Example:</b> $\text{Volume} = (1/2) \times (6 \text{ in.}) \times (3 \text{ in.}) \times (1 \text{ in.})$ $= 9 \text{ in.}^3$	