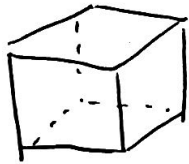


Volume of a Prism



Area - everything inside a 2-dimensional shape
 Area - units squared ($\text{in}^2, \text{ft}^2, \text{etc}$)



Volume - everything inside a 3-dimensional shape

Volume - units cubed ($\text{in}^3, \text{ft}^3, \text{etc}$)

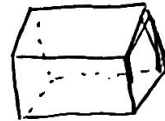
Prism - 2 identical shapes (Bases - B) connected by rectangles



Triangular Prism
(Triangle - Base)

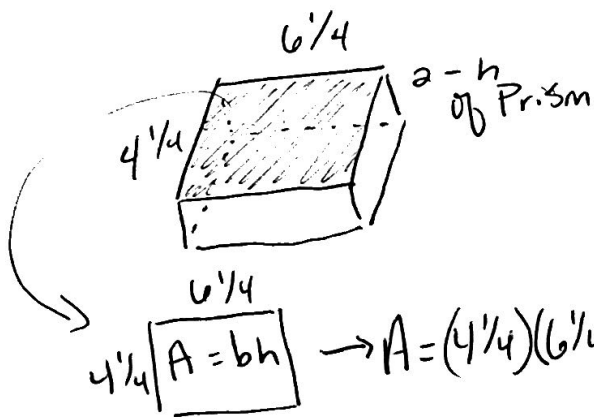


Trapezoidal Prism
(Trap - Base)



Rectangular Prism (All Rectangles - does not matter which rectangle is the base)

ex: popcorn box



$$V = Bh$$

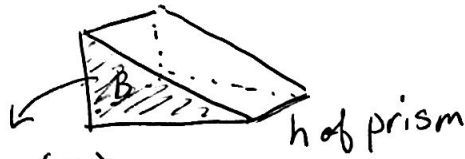
$$V = (4\frac{1}{4})(6\frac{1}{4})(2)$$

B - Area of the base of a prism
 h - distance between the bases

$$V = 53.13 \text{ in}^3$$

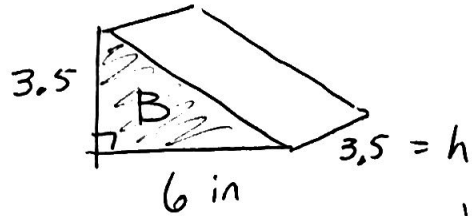
$$\rightarrow A = (4\frac{1}{4})(6\frac{1}{4}) \Rightarrow B$$

Triangular Prism



Base (B)
is a Triangle

$$B = \frac{1}{2}bh$$



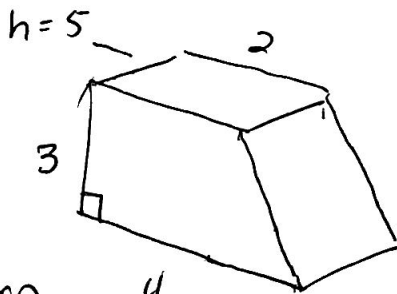
$$A = B = \frac{1}{2}(b)(3.5)$$

$$V = B h$$

$$V = \frac{1}{2}(b)(3.5)(3.5)$$

$$= \boxed{36.75 \text{ in}^3}$$

Trapezoidal Prism



Area of Trap. 4

$$A = \frac{1}{2}(b_1 + b_2)h$$

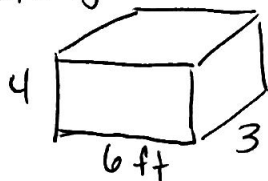
$$\frac{1}{2}(2+4)3$$

$$V = Bh$$

$$V = \frac{1}{2}(2+4)(3)(5)$$

$$= \boxed{45 \text{ ft}^3}$$

Rectangular Prism (again)



$$V = 4(6)(3)$$

$$= 72 \text{ ft}^3$$

easy because you
can just multiply
all 3 dimensions
together.
(Another formula
for Rect. Prism
only is $V = lwh$)