

Volume of Rectangular Prisms

Volume = How much space is inside a 3-dimensional figure (fill the inside with cubes)

$$V = lwh$$

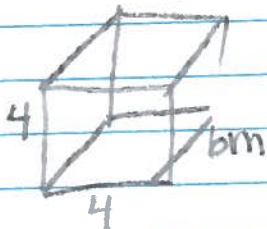
units are cubed
 $\text{cm}^3, \text{in}^3, \text{m}^3$

Examples

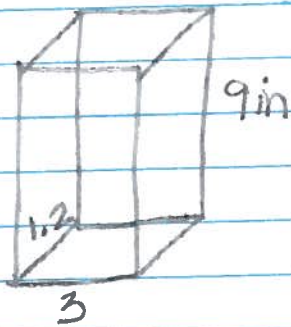
* Gallons to fill a pool

* Space to fill a cargo crate

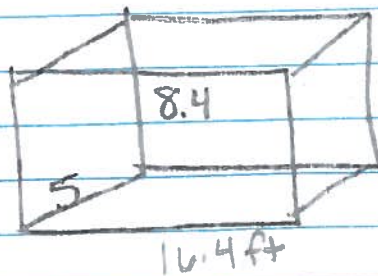
* filling a fridge or cooler



$$\begin{aligned} V &= lwh \\ &= (4)(6)(4) \\ V &= 96\text{m}^3 \end{aligned}$$



$$\begin{aligned} V &= lwh \\ &= (3)(1.2)(9) \\ V &= 32.4\text{in}^3 \end{aligned}$$



$$\begin{aligned} V &= lwh \\ &= (16.4)(5)(8.4) \\ V &= 688.8\text{ft}^3 \end{aligned}$$