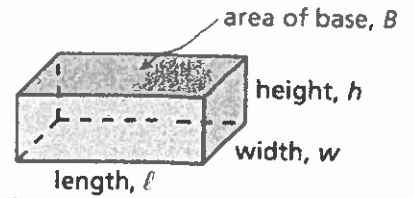


VOLUME OF RECTANGULAR PRISMS  
8.4

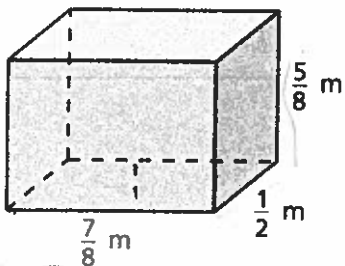
ESSENTIAL QUESTION: How can you find the volume of a rectangular prism?

VOLUME OF A RECTANGULAR PRISM ->

Volume → The amount of space an object occupies.  
Volume = length × width × height



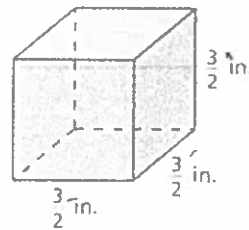
Find the volume of each prism.



$$V = \frac{7}{8} \cdot \frac{1}{2} \cdot \frac{5}{8}$$

$$V = \frac{7}{8} \cdot \frac{5}{8} \cdot \frac{1}{2}$$

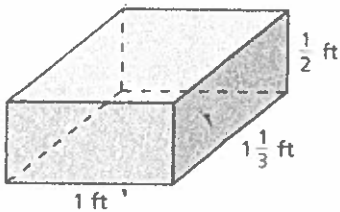
$$V = \frac{35}{128} \text{ m}^3$$



$$V = \frac{3}{2} \cdot \frac{3}{2} \cdot \frac{3}{2}$$

$$V = \frac{9}{4} \cdot \frac{3}{2}$$

$$V = \frac{27}{8} = 3\frac{3}{8} \text{ in}^3$$

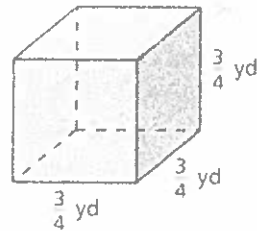


$$V = 1 \cdot 1\frac{1}{3} \cdot \frac{1}{2}$$

$$V = 1 \cdot \frac{4}{3} \cdot \frac{1}{2}$$

$$V = \frac{4}{3} \cdot \frac{1}{2}$$

$$V = \frac{4}{3} = 1\frac{1}{3} \text{ ft}^3$$



$$V = \frac{3}{4} \cdot \frac{3}{4} \cdot \frac{3}{4}$$

$$V = \frac{9}{16} \cdot \frac{3}{4} = \frac{27}{64} \text{ yd}^3$$