4/19/12 10.7 Volume of a Prism

P. 510

Boxes in one layer $\times$ # of layers $=$ # of boxes

$3 \times 4 \times 2 = 24$ boxes^3

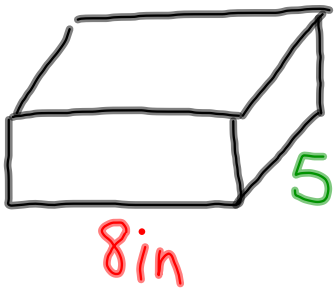
Volume: of a solid is the amount of space the solid occupies.

* VOLUME IS MEASURED IN CUBIC UNITS.

Formula: $V = lwh$

Volume of Rectangular Prism

Volume = length x width x height



$V = 8 \times 5 \times 3$

40×3

$V = 120 \text{ in.}^3$

P. 511 Ex 2: &#s 1-3

1. $40 m^3$ = 40 cubed meters
2. $432 ft^3$
3. $1,600 in^3$

P.511 Ex3:

$V = lwh$

$21{,}600 = l \times 30 \times 12$

$21{,}600 = l \times 360$ $\quad 360\overline{)21{,}600}$

$60m = l$

P. 511 #s 4-5

④ 50 m

⑤ 2 ft

In Class:

P.512-513 #s 6-19

HW: ws 10.7