- the volume of an object is the amount of space it occupies.
- area $\rightarrow$ square units ex. $\mathrm{cm}^{2}, \mathrm{~m}^{2}, \mathrm{Ht}^{2}$
- volume $\rightarrow$ cubic units ex. $\mathrm{cm}^{3}, \mathrm{~m}^{3}, \mathrm{ft}^{3}$

Ex.\#


$$
\begin{aligned}
V & =l \times w \times h \\
& =15 \times 6 \times 12 \\
& =1080 \mathrm{~m}^{3}
\end{aligned}
$$

Ex.\#2 $15^{\prime \prime} \times 24^{\prime \prime} \times 36^{\prime \prime}$
Volume in cubic inches and abic feet
cubic inches: $1^{\prime \prime} \times 24^{\prime \prime} \times 36^{\prime \prime}=12,960$ in $^{3}$
Chic feet:

$$
\begin{aligned}
& 15 \mathrm{ip} \times \frac{1 \mathrm{ft}}{12 \mathrm{ip}}=1.25 \mathrm{ft} \\
& 24 \mathrm{ih} \times \frac{1 \mathrm{ft}}{12 \mathrm{id}}=2 \mathrm{ft} \\
& 36 \mathrm{ip} \times \frac{1 \mathrm{ft}}{12 \mathrm{in}}=3 \mathrm{ft}
\end{aligned}
$$

