

Conversion Tables

Metric System

Prefix	kilo	hecto	deca	UNIT	deci	centi	milli
Symbol	k	h	da	g L m	d	c	m

Imperial System

Length	Mass	Volume
1 ft = 12 in	1 lb = 16 oz	1 gal = 4 qt
1 yd = 3 ft	1 T = 2000 lb	1 qt = 2 pt
1 mi = 1760 yd		1 pt = 16 fl oz

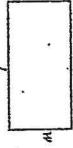

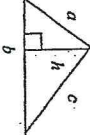
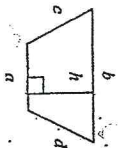
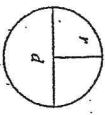
Imperial to Metric System

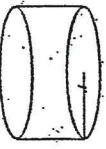
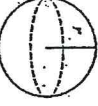
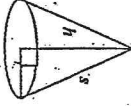
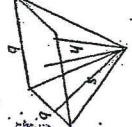
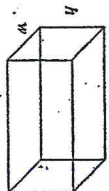
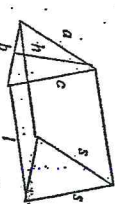
Length	Area	Volume
1 in = 25.4 mm or 2.54 cm	1 in ² = 6.45 cm ²	1 in ³ = 16.39 cm ³
1 ft = 0.3048 m	1 ft ² = 0.0929 m ²	1 ft ³ = 28.32 dm ³ or 28.32 L
1 yd = 0.9144 m	1 yd ² = 0.84 m ²	1 yd ³ = 0.76 m ³
1 mi = 1.609 km	1 acre = 4047 m ²	1 ft ³ = 0.0283 m ³
Capacity	Mass	Speed
1 fl oz = 29.6 mL	1 oz = 28.35 g	1 m.p.h. = 1.609 km/h
1 qt = 0.947 L	1 lb = 0.454 kg	
(U.S.) 1 gal = 3.785 L	1 T = 0.91 t	

$$T_F = 1.8T_C + 32$$

$$T_C = \frac{(T_F - 32)}{1.8}$$

MEASUREMENT FORMULAS

Geometric Figure	Perimeter	Area
	$P = 2l + 2w$ or $P = 2(l + w)$	$A = lw$
	$P = a + b + a + b$ or $P = 2(a + b)$	$A = bh$
	$P = a + b + c$	$A = \frac{bh}{2}$ or $A = \frac{1}{2}bh$
	$P = a + b + c + d$	$A = \frac{(a+b)h}{2}$ or $A = \frac{1}{2}(a+b)h$
	$C = \pi d$ or $C = 2\pi r$	$A = \pi r^2$

Geometric Figure	Surface Area	Volume
	$SA_{base} = \pi r^2$ $SA_{side} = 2\pi rh$ $SA_{total} = 2\pi r^2 + 2\pi rh$	$V = \pi r^2 h$
	$SA = 4\pi r^2$	$V = \frac{4}{3}\pi r^3$
	$SA_{base} = \pi r^2$ $SA_{side} = \pi rs$ $SA_{total} = \pi r^2 + \pi rs$	$V = \frac{1}{3}\pi r^2 h$
	$SA_{base} = b^2$ $SA_{side} = 4\left(\frac{1}{2}bs\right)$ $SA_{total} = b^2 + 2bs$	$V = \frac{1}{3}b^2 h$
	$SA_{total} = 2lw + 2lh + 2wh$ $SA_{total} = 2(lw + lh + wh)$	$V = lwh$
	$SA_{total} = 2\left(\frac{1}{2}bh\right) + ql + bl + cl$ $SA_{total} = bh + ql + bl + cl$	$V = \frac{1}{2}bh l$