

## METRIC CONVERSION CHART

when you know	multiply by	to find
<b>length</b>		
millimeters	0.04	inches
centimeters	0.39	inches
meters	3.28	feet
meters	1.09	yards
kilometers	0.62	miles
inches	25.40	millimeters
inches	2.54	centimeters
feet	30.48	centimeters
yards	0.91	meters
miles	1.61	kilometers

<b>speed</b>		
miles per hour	1.61	kilometers per hour
kilometers per hour	0.62	miles per hour

<b>volume</b>		
milliliters	0.20	teaspoons
milliliters	0.07	tablespoons
milliliters	0.03	fluid ounces
liters	4.23	cups
liters	2.11	pints
liters	1.06	quarts
liters	0.26	gallons
cubic meters	35.31	cubic feet
cubic meters	1.31	cubic yards
teaspoons	4.93	milliliters
tablespoons	14.79	milliliters
fluid ounces	29.57	milliliters
cups	0.24	liters
pints	0.47	liters
quarts	0.95	liters
gallons	3.79	liters
cubic feet	0.03	cubic meters
cubic yards	0.76	cubic meters

when you know	multiply by	to find
<b>mass and weight</b>		
grams	0.035	ounce
grams	0.032	ounce (apoth.)
kilograms	2.20	pounds
kilograms	2.68	pounds (apoth.)
tons (1,000 kg)	1.10	short tons
ounces	28.35	grams
ounces (apoth.)	31.10	grams
pounds	0.45	kilograms
pounds (apoth.)	0.37	kilograms
short tons (2,000 lb)	0.91	metric tons

<b>temperature</b>		
degrees Fahrenheit	$(^{\circ}\text{F} - 32) \div 1.8$	degrees Celsius
degrees Celsius	$(^{\circ}\text{C} \times 1.8) + 32$	degrees Fahrenheit

<b>metric prefixes</b>			
prefix	symbol	factor	
exa-	E	$10^{18}$	= 1,000,000,000,000,000,000
peta-	P	$10^{15}$	= 1,000,000,000,000,000
tera-	T	$10^{12}$	= 1,000,000,000,000
giga-	G	$10^9$	= 1,000,000,000
mega-	M	$10^6$	= 1,000,000
kilo-	k	$10^3$	= 1,000
hecto-	h	$10^2$	= 100
deca-	da	10	= 10
deci-	d	$10^{-1}$	= 0.1
centi-	c	$10^{-2}$	= 0.01
milli-	m	$10^{-3}$	= 0.001
micro-	$\mu$	$10^{-6}$	= 0.000,001
nano-	n	$10^{-9}$	= 0.000,000,001
pico-	p	$10^{-12}$	= 0.000,000,000,001
femto-	f	$10^{-15}$	= 0.000,000,000,000,001
atto-	a	$10^{-18}$	= 0.000,000,000,000,000,001