

METRIC CONVERSION CHART

when you know	multiply by	to find
length		
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

speed		
miles per hour	1.61	kilometers per hour
kilometers per hour	0.62	miles per hour

volume		
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
mass and weight		
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

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

metric prefixes					
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-	μ	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	