

Useful Numbers

Metric Conversions

<u>Prefix</u>	<u>Symbol</u>	<u>Multiples</u>	<u>Equivalent</u>
exa	E	10^{18}	Quintillionfold
peta	P	10^{15}	Quadrillionfold
tera	T	10^{12}	Trillionfold
giga	G	10^9	Billionfold
mega	M	10^6	Millionfold
kilo	k	10^3	Thousandfold
hecto	h	10^2	Hundredfold
deka	da	10^1	Tenfold
deci	d	10^{-1}	one Tenth
centi	c	10^{-2}	one hundredth
milli	m	10^{-3}	one thousandth
micro	μ	10^{-6}	one millionth
nano	n	10^{-9}	one billionth
pico	p	10^{-12}	one trillionth
femto	f	10^{-15}	one quadrillionth
atto	a	10^{-18}	one quintillionth

Equivalents

Length

1 angstrom = 0.1 nanometer or 1×10^{10} m
1 centimeter = 0.3937 inch
1 inch = 2.540 centimeters
1 fathom = 6 feet
1 furlong = 660 ft or 40 rods or 201.168 meters
1 furlong = $\frac{1}{8}$ mile
1 kilometer = 0.621 mile or 3,281.5 feet
1 league = 3 miles or 4.828 kilometers
1 meter = 39.37 inches or 1.094 yards
1 mil = 0.001 inch or 0.0254 millimeter
1 statute mile = 5,280 feet or 1.609 kilometer
1 nautical mile = 6,076.11549 feet or 1.852 km
1 rod = 16 $\frac{1}{2}$ feet or 5.029 meters
1 yard = 0.9144 meters or 3 feet

Giant Numbers

<u>Designation</u>	<u>Number of Zeros</u>
Million	6
Billion	9
Trillion	12
Quadrillion	15
Quintillion	18
Sextillion	21
Septillion	24
Octillion	27
Nonillion	30
Decillion	33

Roman Numerals

I.....1	L.....50
II.....2	LX.....60
III.....3	XC.....90
IV.....4	C.....100
V.....5	CC.....200
V.I.....6	CD.....400
VII.....7	D.....500
VIII.....8	CM..... 900
IX.....9	M.....1000
X.....10	<u>V</u>5000
XI.....11	<u>X</u>10,000
XIX.....19	<u>L</u>50,000
XX.....20	<u>C</u>100,000
XXX....30	<u>D</u>500,000
XL.....40	M.....1,000,000

Volumes

1 barrel, liquid = 31 gallons for fermented liquors
1 barrel, liquid = 42 gallons for crude oil or petroleum
1 barrel, standard = 3.281 bushels
1 bushel = 35.239 liters
1 cord firewood = 128 cubic feet
1 cubic centimeter = 1 milliliter
1 cup = 8 fluid ounces
1 gallon, US = 8.34 pounds of water
1 gallon, US = 3.785 liters
1 gallon = 4 quarts
1 peck = 8.810 liters
1 pint = 2 cups
1 quart = 2 pints
1 quart, liquid = 0.946 liters
1 tablespoon = 3 teaspoons or $\frac{1}{2}$ fluid ounce
1 teaspoon = $\frac{1}{3}$ tablespoon or 14.7865 mL

Weights

1 bale, cotton = 500 pounds
1 carat = 200 milligrams
1 grain = 64.799 milligrams
1 gram = 15.432 grains
1 ounce, dry = 28.350 grams
1 pound = 453.59237 grams
1 kilogram = 2.2046 pounds
1 metric ton = 1000 kg