



U.S. AND METRIC SYSTEM EQUIVALENTS

LENGTH EQUIVALENTS						
Unit	Millimeters	Centimeters	Inches	Feet	Yards	Meters
1 Millimeter =	1	.1	.03937	.003281	.001094	.001
1 Centimeter =	10	1	.3937	.032808	.010936	.01
1 Inch =	25.4	2.54	1	.083333	.027778	.0254
1 Foot =	304.8	30.48	12	1	.333333	.3048
1 Yard =	914.4	91.44	36	3	1	.9144
1 Meter =	1000	100	39.37	3.28083	1.09361	1

Unit	Feet	Yards	Meters	Rods	Furlongs	Miles (Statute)
1 Rod =	16.5	5.5	5.02920	1	.025 (1/40)	.003125 (1.320)
1 Furlong =	660	220	201.168	40	1	.125 (1/8)
1 Kilometer =	3280.8	1093.6	1000	199	4.971	.62137
1 Mile (statute) =	5280	1760	1609.34	320	8	1

1 Nautical Mile = 6080.2 feet = 1.15155 statute miles = 1/3 league.

1 Light Year = 5.879 trillion miles = 9.46 trillion kilometers.

WEIGHT EQUIVALENTS							
Unit	Grains	Grams	Ounces (Troy)	Ounces (Avoir.)	Pounds (Troy)	Pounds (Avoir.)	Kilograms
1 Grain =	1	.064799	.002083	.002286	.000174	.000143	.000065
1 Gram =	15.4324	1	.032151	.035274	.002679	.002205	.001
1 Ounce (Troy) =	480	31.1035	1	1.09714	.083333	.068571	.031104
1 Ounce (Avoir.) =	437.5	28.3495	.911458	1	.075955	.0625	.028350
1 Pound (Troy) =	5760	373.242	12	13.1657	1	.822857	.373242
1 Pound (Avoir.) =	7000	453.592	14.5833	16	1.21528	1	.453592
1 Kilogram =	15432.4	1000	32.1507	35.2740	2.67923	2.20462	1

Unit	Kilograms	Pounds (Troy)	Pounds (Avoir.)	Metric Tons	Net (Short) Tons	Gross (Long) Tons
1 Metric Ton =	1000	2679.23	2204.62	1	1.10231	.984206
1 Net (Short) Ton =	907.185	2430.56	2000	.907185	1	.892857
1 Gross (Long) Ton =	1016.05	2722.22	2240	1.01605	1.12	1

VOLUME AND CAPACITY EQUIVALENTS								
Unit	Cubic Centimeters	Cubic Inches	Cubic Feet	Liters	Quarts (Liquid)	Quarts (Dry)	Gals. (Liquid)	Gals. (Dry)
1 Cu. Centimeter =	1	.06102	.00004	.001	.00106	.00091	.00026	.00023
1 Cu. Inch =	16.387	1	.00058	.01639	.01732	.01488	.00433	.00372
1 Gill =	118.29	7.2188	.00418	.11829	.125	.10742	.03125	.02686
1 Pint (Liquid) =	473.18	28.875	.01671	.47318	.5	.42968	.125	.10742
1 Pint (Dry) =	550.62	33.600	.01945	.55062	.58182	.5	.14546	.125
1 Liter =	1000	61.023	.03531	1	1.0567	.90808	.26417	.22702
1 Quart (Liquid) =	946.36	57.75	.03342	.94636	1	.85937	.25	.21484
1 Quart (Dry) =	1101.2	67.201	.03889	1.1012	1.1637	1	.29091	.25
1 Gallon (Liquid) =	3785.4	231	.13368	3.7854	4	3.4375	1	.85937
1 Gallon (Dry) =	4404.9	268.80	.15556	4.4049	4.6546	4	1.1636	1
1 Peck =	8809.8	537.61	.31111	8.8098	9.3092	8	2.3273	2
1 Cu. Foot =	28317.0	1728	1	28.317	29.922	25.714	7.4805	6.4285
1 Bushel =	35239.3	2150.4	1.2445	35.239	37.237	32	9.3092	8
1 Barrel =	119241.2	7276.5	4.2109	119.24	126	108.28	31.5	27.070
1 Cu. Yard =	764559.4	46656	27	764.56	807.90	694.28	201.97	173.57
1 Cu. Meter =	1000000	61023.4	35.314	1000	1056.7	908.08	264.17	227.02