

Metric and English Conversion Table

Linear Measure					
1 km	=	0.6214 mi	1 mi	=	1.61 km
1 m	=	0.0006214 mi	1 mi	=	1,610 m
1 m	=	3.28 ft	1 ft	=	0.305 m
1 cm	=	0.3937 in	1 in	=	2.54 cm
1 mm	=	0.03937 in	1 in	=	25.4 mm

Square Measure					
1 km ²	=	0.3861 mi ²	1 mi ²	=	2.59 km ²
1 m ²	=	10.76 ft ²	1 ft ²	=	0.093 m ²
1 cm ²	=	0.155 in ²	1 in ²	=	0.65 cm ²
1 mm ²	=	0.00155 in ²	1 in ²	=	845.2 mm ²

Weight Measure					
1 kg	=	2.2 lbs	1 lb	=	0.455 kg
1 kg	=	35.274 ozs	1 oz	=	0.028 kg

Force Measure					
1 Newton (N)	=	0.225 lbs	1 lb	=	4.448 N
1 daN	=	2.2 lbs	1 lb	=	0.455 daN
1 kg Force	=	9.8 Newton (N)	1 N	=	0.102 kg Force
1 Kilopound	=	9.5 Newton (N)	1 N	=	0.105 Kilopound
1 Pound/Inch	=	175.127 Newton/Meter	1 N/m	=	0.0057 Pound/Inch
1 Pound/Foot	=	14.59 Newton/Meter	1 N/m	=	0.0685 Pound/Foot

Pressure Measure					
1 Bar	=	14.5 P.S.I.	1 P.S.I.	=	0.690 Bar
1 kg/m ²	=	9.8 Newton/Meter ²	1 N/m ²	=	0.102 kg/m ²
1 kg/m ²	=	9.8 Pascal (Pa)	1 Pa	=	0.102 kg/m ²
1 Kilonewton/Meter	=	0.145 P.S.I.	1 P.S.I.	=	6.897 KN/m ²

Other					
1 in ³	=	16.3871 cm ³	1 cm ³	=	0.0610 in ³
1 in ⁴	=	41.623 cm ⁴	1 cm ⁴	=	0.024 in ⁴
1 lb/ft	=	1.4882 kg/m	1 kg/m	=	0.67195 lb/ft
1 Nm	=	8.858 inch-pounds	1 inch-pound	=	0.113 Nm

Metric / U.S. Customary Unit Equivalents

Linear				
miles	× 1.6093	= kilometers (km)	× 0.6214	= miles
yards	× 0.9144	= meters (m)	× 1.0936	= yards
feet	× 0.3048	= meters (m)	× 3.281	= feet
inches	× 2.54	= centimeters (cm)	× 0.3937	= inches
inches	× 25.4	= millimeters (mm)	× 0.03937	= inches

Area				
miles ²	× 2.59	= kilometers ² (km ²)	× 0.3861	= miles ²
yards ²	× 0.8361	= meters ² (m ²)	× 1.196	= yards ²
inches ²	× 6.452	= centimeters ² (cm ²)	× 0.155	= inches ²
acres ²	× 0.4047	= hectares ² (10 ⁴ m ²) or (ha)	× 2.471	= acres ²
feet ²	× 0.0929	= meters ² (m ²)	× 10.764	= feet ²

Mass				
ounces (av)	× 28.35	= grams (g)	× 0.03527	= ounces (av)
pounds (av)	× 0.4536	= kilograms (kg)	× 2.2046	= pounds (av)
tons (2000 lb)	× 907.18	= kilograms (kg)	× 0.001102	= tons (2000 lb)
tons (2000 lb)	× 0.90718	= metric tons (t)	× 1.1023	= tons (2000 lb)

Force				
ounces - f	× 0.278	= newtons (N)	× 3.597	= ounces - f
pounds - f	× 4.448	= newtons (N)	× 0.2248	= pounds - f
kilograms - f	× 9.807	= newtons (N)	× 0.10197	= kilograms - f

Thread	mm		inch	
	Outside dia	Core dia	Outside dia	Core dia
metric		Bolt Nut		Bolt Nut
M4	4	3.141 3.242	0.15748	0.12362 0.12756
M5	5	4.019 4.134	0.19685	0.15827 0.16260
M6	6	4.773 4.917	0.23622	0.18779 0.19370
M8	8	6.466 6.647	0.31496	0.25472 0.26181
M10	10	8.160 8.376	0.39370	0.32126 0.32992
M12	12	9.853 10.106	0.47244	0.38779 0.39803
M14	14	11.546 11.835	0.55118	0.45827 0.46614
M16	16	13.546 13.835	0.62992	0.53346 0.54488

Thread	inch		mm	
	Outside dia	Core dia	Outside dia	Core dia
UNF, NF / UNC, NC		Bolt Nut		Bolt Nut
8 - 32	0.16402	0.12571 0.13020	4.166	3.193 3.307
10 - 32	0.19000	0.15169 0.15618	4.826	3.853 3.967
1/4" - 20	0.25000	0.18870 0.19591	6.350	4.793 4.967
5/16" - 18	0.31252	0.24429 0.25240	7.938	6.205 6.411
3/8" - 16	0.37500	0.29831 0.30728	9.525	7.577 7.805
1/2" - 13	0.50000	0.40551 0.41669	12.700	10.300 10.584
9/16" - 12	0.56252	0.46031 0.47228	14.288	11.692 11.996
5/8" - 11	0.62500	0.51350 0.52661	15.875	13.043 13.376

