

CONVERSION FACTORS

LENGTH		
Multiply	By	To Obtain
Centimeters	x .3937	= inches
Fathoms	x 6.0	= feet
Feet	x 12.0	= inches
Feet	x .3048	= meters
Inches	x 2.54	= centimeters
Kilometers	x .6214	= miles
Meters	x 3.281	= feet
Meters	x 39.37	= inches
Meters	x 1.094	= yards
Miles	x 5280.0	= feet
Miles	x 1.609	= kilometers
Rods	x 5.5	= yards
Yards	x .9144	= meters

AREA		
Multiply	By	To Obtain
Acres	x 43560.0	= square feet
Acres	x 4840.0	= square yards
Circular Mils	x 7.854×10^{-7}	= square inches
Circular Mils	x .7854	= square mils
Square Centimeters	x .144	= square inches
Square Feet	x 144.0	= square inches
Square Feet	x .0929	= square meters
Square Inches	x 6.452	= sq. centimeters
Square Meters	x 1.196	= square yards
Square Miles	x 640.0	= acres
Square Mils	x 1.273	= circular mils
Square Yards	x .8361	= square meters

VOLUME		
Multiply	By	To Obtain
Cubic Feet	x .0283	= cubic meters
Cubic Feet	x 7.481	= gallons
Cubic Inches	x .5541	= ounces (fluid)
Cubic Meters	x 35.31	= cubic feet
Cubic Meters	x 1.308	= cubic yards
Cubic Yards	x .7646	= cubic meters
Gallons	x .1337	= cubic feet
Gallons	x 3.785	= liters
Liters	x .2642	= gallons
Liters	x 1.057	= quarts
Ounces (fluid)	x 1.805	= cubic inches
Quarts (fluid)	x .9463	= liters

FORCE AND WEIGHT		
Multiply	By	To Obtain
Grams	x .0353	= ounces
Kilograms	x 2.205	= pounds
Newtons	x .2248	= pounds (force)
Ounces	x 28.35	= grams
Pounds	x 453.6	= grams
Pounds (force)	x 4.448	= newtons
Tons (short)	x 907.2	= kilograms
Tons (short)	x 2000.0	= pounds

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CONVERSION FACTORS CONT.

TORQUE		
Multiply	By	To Obtain
Gram-Centimeters	x 0.139	= ounces-inches
Newton-Meters	x .7376	= pound-feet
Newton-Meters	x 8.851	= pounds-inches
Ounce-Inches	x 72.0	= gram-centimeters
Pound-Feet	x 1.3558	= newton-meters
Pound-Inches	x .113	= newton-meters

ENERGY OF WORK		
Multiply	By	To Obtain
Btu	x 778.2	= foot-pounds
Btu	x 252.0	= gram-calories

POWER		
Multiply	By	To Obtain
Btu per hour	x .293	= watts
Horsepower	x 33000.0	= foot-pounds per min.
Horsepower	x 550.0	= foot-pounds per sec.
Horsepower	x 746.0	= watts
Kilowatts	x 1.341	= horsepower

PLANE ANGLE		
Multiply	By	To Obtain
Degrees	x .0175	= radians
Minutes	x .01667	= degrees
Minutes	x 2.9×10^{-4}	= radians
Quadrants	x 90.0	= degrees
Quadrants	x 1.5708	= radians
Radians	x 57.3	= degrees

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