

Imperial and Metric Conversion Factors

To Convert	Multiply By	To Convert	Multiply By
Length			
inches to millimeters	25.4	millimeters to inches	0.0393701
feet to meters	0.3048	meters to feet	3.28084
yards to meters	0.9144	meters to yards	1.09361
furlongs to kilometers	0.201168	kilometers to furlongs	4.97097
miles to kilometers	1.609344	kilometers to miles	0.621371
Area			
square inches to square centimeters	6.4516	square centimeters to square inches	0.155
square feet to square meters	0.092903	square meters to square feet	10.7639
square yards to square meters	0.836127	square meters to square yards	1.19599
square miles to square kilometers	2.589988	square kilometers to square miles	0.386102
acres to square meters	4046.856422	square meters to acres	0.000247
acres to hectares	0.404866	hectares to acres	2.469955
Volume/Capacity			
cubic inches to cubic centimeters	16.387064	cubic centimeters to cubic inches	0.061024
cubic feet to cubic meters	0.028317	cubic meters to cubic feet	35.3147
cubic yards to cubic meters	0.764555	cubic meters to cubic yards	1.30795
cubic miles to cubic kilometers	4.1682	cubic kilometers to cubic miles	0.239912
fluid ounces (U.S.) to milliliters	29.5735	milliliters to fluid ounces (U.S.)	0.033814
fluid ounces (imperial) to milliliters	28.413063	milliliters to fluid ounces (imperial)	0.035195
pints (U.S.) to liters	0.473176	liters to pints (U.S.)	2.113377
pints (imperial) to liters	0.568261	liters to pints (imperial)	1.759754
quarts (U.S.) to liters	0.946353	liters to quarts (U.S.)	1.056688
quarts (imperial) to liters	1.136523	liters to quarts (imperial)	0.879877
gallons (U.S.) to liters	3.785412	liters to gallons (U.S.)	0.264172
gallons (imperial) to liters	4.54609	liters to gallons (imperial)	0.219969

Mass/Weight			
ounces to grams	28.349523	grams to ounces	0.035274
pounds to kilograms	0.453592	kilograms to pounds	2.20462
stone (14 lb) to kilograms	6.350293	kilograms to stone (14 lb)	0.157473
tons (U.S.) to kilograms	907.18474	kilograms to tons (U.S.)	0.001102
tons (imperial) to kilograms	1016.046909	kilograms to tons (imperial)	0.000984
tons (U.S.) to metric tons	0.907185	metric tons to tons (U.S.)	1.10231
tons (imperial) to metric tons	1.016047	metric tons to tons (imperial)	0.984207
Speed			
miles per hour to kilometers per hour	1.609344	kilometers per hour to miles per hour	0.621371
feet per second to meters per second	0.3048	meters per second to feet per second	3.28084
Force			
pound-force to newton	4.44822	newton to pound-force	0.224809
kilogram-force to newton	9.80665	newton to kilogram-force	0.101972
Pressure			
pound-force per square inch to kilopascals	6.89476	kilopascals to pound-force per square inch	0.145038
tons-force per square inch (imperial) to megapascals	15.4443	megapascals to tons-force per square inch (imperial)	0.064779
atmospheres to newtons per square centimeter	10.1325	newtons per square centimeter to atmospheres	0.098692
atmospheres to pound-force per square inch	14.695942	pound-force per square inch to atmospheres	0.068948
Energy			
calorie to joule	4.1868	joule to calorie	0.238846
watt-hour to joule	3,600	joule to watt-hour	0.000278
Power			
horsepower to kilowatts	0.7457	kilowatts to horsepower	1.34102
Fuel Consumption			
miles per gallon (U.S.) to kilometers per liter	0.4251	kilometers per liter to miles per gallon (U.S.)	2.3521
miles per gallon (imperial) to kilometers per liter	0.354	kilometers per liter to miles per gallon (imperial)	2.824859
gallons per mile (U.S.) to liters per kilometer	2.3521	liters per kilometer to gallons per mile (U.S.)	0.4251

gallons per mile (imperial) to liters per kilometer	2.824859	liters per kilometer to gallons per mile (imperial)	0.354
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