

ENGLISH-METRIC CONVERSIONS

TO CONVERT:	MULTIPLY BY:	TO OBTAIN:
<u>TEMPERATURE:</u>		
Centigrade (degrees)	$(^{\circ}\text{C} \times 9/5) + 32$	Fahrenheit (degrees)
Fahrenheit (degrees)	$(^{\circ}\text{F} \times 5/9) - 32$	Centigrade (degrees)
<u>LENGTH:</u>		
Centimeters	3.281×10^{-2}	Feet
Centimeters	3.937×10^{-1}	Inches
Feet	3.048×10^1	Centimeters
Feet	3.048×10^{-4}	Kilometers
Feet	3.048×10^{-1}	Meters
Feet	1.894×10^{-4}	Miles
Feet	3.048×10^2	Millimeters
Inches	2.540	Centimeters
Inches	2.540×10^{-2}	Meters
Inches	1.578×10^{-5}	Miles
Inches	2.54×10^1	Millimeters
Inches	2.778×10^{-2}	Yards
Kilometers	1.0×10^5	Centimeters
Kilometers	3.281×10^3	Feet
Kilometers	3.937×10^4	Inches
Kilometers	1.0×10^3	Meters
Kilometers	6.214×10^{-1}	Miles
Kilometers	1.0×10^6	Millimeters
Kilometers	1.0936×10^3	Yards
Meters	1.0×10^2	Centimeters
Meters	3.281	Feet
Meters	3.937×10^1	Inches
Meters	1.0×10^{-3}	Kilometers
Meters	6.214×10^{-4}	Miles
Meters	1.0×10^3	Millimeters
Meters	1.094	Yards
Miles	5.280×10^3	Feet
Miles	5.280×10^3	Kilometers
Miles	5.280×10^3	Meters
Miles	5.280×10^3	Yards
Miles	1.0×10^2	Centimeters
Miles	8.333×10^{-5}	Feet
Miles	1.0×10^{-3}	Inches
Miles	2.54×10^{-8}	Kilometers
Miles	2.778×10^{-5}	Yards
Yards	9.144×10^1	Centimeters

TO CONVERT:**MULTIPLY BY:****TO OBTAIN:**

Yards	9.144×10^{-4}	Kilometers
Yards	9.144×10^{-1}	Meters
Yards	5.682×10^{-4}	Miles
Yards	9.144×10^2	Millimeters
Square feet	9.29×10^2	Square centimeters
Square feet	9.29×10^2	Square inches
Square feet	9.29×10^{-2}	Square meters
Square feet	3.587×10^{-8}	Square miles
Square feet	9.29×10^4	Square millimeters
Square feet	1.111×10^{-1}	Square yards
Square inches	6.452	Square centimeters
Square inches	6.944×10^{-3}	Square feet
Square inches	6.452×10^2	Square millimeters
Square inches	7.716×10^{-4}	Square yards
Square kilometers	1.0×10^{10}	Square centimeters
Square kilometers	1.076×10^7	Square feet
Square kilometers	1.550×10^6	Square inches
Square kilometers	1.0×10^6	Square meters
Square kilometers	3.861×10^{-1}	Square miles
Square kilometers	1.196×10^6	Square yards
Square meters	1.0×10^4	Square centimeters
Square meters	1.076×10^1	Square feet
Square meters	1.0×10^6	Square meters
Square meters	3.861×10^{-7}	Square miles
Square meters	1.0×10^6	Square yards
Square millimeters	1.0×10^{-2}	Square centimeters
Square millimeters	1.076×10^{-5}	Square feet
Square millimeters	1.55×10^{-3}	Square inches
Square yards	8.361×10^3	Square centimeters
Square yards	9.0	Square feet
Square yards	1.296×10^3	Square inches
Square yards	8.361×10^{-1}	Square meters
Square yards	3.228×10^{-7}	Square miles
Square yards	8.361×10^5	Square millimeters

TO CONVERT:**MULTIPLY BY:****TO OBTAIN:****VOLUME:**

Cubic centimeters	3.531×10^{-5}	Cubic feet
Cubic centimeters	6.102×10^{-2}	Cubic inches
Cubic centimeters	1.0×10^{-6}	Cubic meters
Cubic centimeters	1.308×10^{-6}	Cubic yards
Cubic feet	2.8320×10^4	Cubic centimeters
Cubic feet	1.728×10^3	Cubic inches
Cubic feet	2.832×10^{-2}	Cubic meters
Cubic feet	3.704×10^{-2}	Cubic yards
Cubic inches	1.639×10^1	Cubic centimeters
Cubic inches	5.787×10^{-4}	Cubic feet
Cubic inches	1.639×10^{-5}	Cubic meters
Cubic inches	2.143×10^{-5}	Cubic yards
Cubic meters	3.531×10^1	Cubic feet
Cubic meters	6.1023×10^4	Cubic inches
Cubic meters	1.308	Cubic yards
Cubic yards	7.646×10^5	Cubic centimeters
Cubic yards	2.7×10^1	Cubic feet
Cubic yards	4.6656×10^4	Cubic inches
Cubic yards	7.646×10^{-1}	Cubic meters
Gallons	3.785×10^3	Cubic centimeters
Gallons	1.337×10^{-1}	Cubic feet
Gallons	2.31×10^2	Cubic inches
Gallons	3.785×10^{-3}	Cubic meters
Gallons	4.951×10^{-3}	Cubic yards
Gallons	3.785	Cubic liters
Liters	3.531×10^{-2}	Cubic feet
Liters	6.102×10^1	Cubic inches
Liters	1.0×10^{-3}	Cubic meters
Liters	1.308×10^{-3}	Cubic yards
Liters	2.642×10^{-1}	Gallons
Liters	2.113	Pints
Liters	1.0957	Quarts
Pints	1.25×10^{-1}	Gallons
Pints	4.732×10^{-1}	Liters
Pints	5.0×10^{-1}	Quarts
Quarts	3.342×10^{-2}	Cubic feet
Quarts	5.775×10^1	Cubic inches
Quarts	9.464×10^{-4}	Cubic meters
Quarts	1.238×10^{-3}	Cubic yards
Quarts	2.5×10^{-1}	Gallons

TO CONVERT:**MULTIPLY BY:****TO OBTAIN:****WEIGHT:**

Grams	1.0×10^{-3}	Kilograms
Grams	1.0×10^3	Milligrams
Grams	3.215×10^{-2}	Ounces
Grams	2.205×10^{-3}	Pounds
Kilograms	1.0×10^3	Grams
Kilograms	2.2046	Pounds
Kilograms	1.102×10^{-3}	Tons
Milligrams	1.0×10^{-3}	Grams
Ounces	6.25×10^{-2}	Pounds
Pounds	4.5359×10^2	Grams
Pounds	1.6×10^1	Ounces
Pounds	5.0×10^{-4}	Tons
Pounds of Water	1.602×10^{-2}	Cubic feet
Pounds of Water	2.768×10^1	Cubic inches
Pounds of Water	1.198×10^{-1}	Gallons
Tons (metric)	1.0×10^3	Kilograms
Tons (metric)	2.205×10^3	Pounds
Tons (metric)	1.1035	Tons (short)
Tons (short)	9.0718×10^2	Kilograms
Tons (short)	2.0×10^3	Pounds
Tons (short)	9.078×10^{-1}	Tons (metric)

WEIGHT PER AREA:

Pounds/square foot	4.882	Kilograms/square meter
Pounds/square foot	6.944×10^{-3}	Pounds/square inch
Pounds/square inch	7.2×10^{-2}	Tons/square foot

WEIGHT PER VOLUME:

Grams/cubic centimeter	6.243×10^1	Pounds/cubic foot
Grams/cubic centimeter	3.613×10^{-2}	Pounds/cubic inch
Grams/liter	6.243×10^{-2}	Pounds/cubic foot
Kilograms/cubic meter	6.243×10^{-2}	Pounds/cubic foot
Kilograms/cubic meter	3.613×10^{-5}	Pounds/cubic inch
Pounds/cubic foot	1.602×10^{-2}	Grams/cubic centimeter
Pounds/cubic foot	1.602×10^1	Kilograms/cubic meter
Pounds/cubic foot	5.787×10^{-4}	Pounds/cubic inch