

METRIC CONVERSIONS

Linear Measure

1 kilometer = 0.6214 mile	1 mile = 1.609 kilometers
1 meter = $\begin{cases} 39.37 \text{ inches} \\ 3.2808 \text{ feet} \\ 1.0936 \text{ yards} \end{cases}$	1 yard = 0.9144 meter
centimeter = 0.3937 inch	1 foot = 0.3048 meter
1 millimeter = 0.03937 inch	1 foot = 304.8 millimeters
1 micrometer (μm)	1 inch = 2.54 centimeters
(0.001 millimeter) = 0.00004 inch	1 inch = 25.4 millimeters
	1 microinch = 0.0254 μm

Square Measure

1 square kilometer = 0.3861 square mile = 247.1 acres
1 hectare = 2.471 acres = 107,640 square feet
1 are = 0.0247 acre = 1076.4 square feet
1 square meter = 10.764 square feet = 1.196 square yards
1 square centimeter = 0.155 square inch
1 square millimeter = 0.00155 square inch
1 square mile = 2.5899 square kilometer
1 acre = 0.4047 hectare = 40.47 ares
1 square yard = 0.0929 square meter = 929 square centimeters
1 square inch = 6.452 square centimeters = 645.2 square millimeters

Cubic Measure

1 cubic meter = 35.31 cubic feet = 1.308 cubic yards
1 cubic meter = 264.2 US gallons = 219.969 Imperial gallons
1 cubic centimeter = 0.062 cubic inch
1 liter (cubic decimeter) = 0.0353 cubic foot = 61.023 cubic inches
1 liter = 0.2642 US gallon = 1.0567 US quarts = 0.2200 Imperial gallon
1 cubic yard = 0.7646 cubic meter
1 cubic foot = 0.02832 cubic meter = 28.317 liter
1 cubic inch = 16.38706 cubic centimeters
1 Imperial gallon = 4.546 liters
1 Imperial quart = 1.136 liters
1 US gallon = 3.785 liters
1 US quart = 0.946 liter

Weight

1 metric ton = 0.9842 ton (of 2240 pounds) = 2204.6 pounds
1 kilogram = 2.2046 pounds = 35.274 ounces avoirdupois
1 gram = 0.03215 ounce troy = 0.03527 ounce avoirdupois
1 gram = 15.432 grains
1 ton (of 2240 pounds) = 1.016 metric tons = 1016 kilograms
1 pound = 0.4536 kilograms = 453.6 grams
1 ounce avoirdupois = 28.35 grams
1 ounce troy = 31.103 grams
1 grain = 0.0648 gram
1 kilogram per square millimeter = 1422.32 pounds per sq. in.
1 kilogram per square centimeter = 14.2232 pounds per sq. in.
1 kilogram/meter = 7.233 foot/pounds
1 pound per square inch = 0.0703 kilogram per square centimeter
1 calorie (kilogram calorie) = 3.968 Btu (British Thermal Units)
1 international table calorie = 4.1868 joules
1 kilojoules = 0.948 Btu
1 kilo pound (kp) = 1 kilogram-force