

METRIC CONVERSION CHART

| when you know | multiply by | to find | when you know | multiply by | to find |
|---------------------|-------------|---------------------|------------------------|-------------------------------------|--------------------|
| length | | | | | |
| millimeters | 0.04 | inches | grams | 0.035 | ounce |
| centimeters | 0.39 | inches | grams | 0.032 | ounce (apoth.) |
| meters | 3.28 | feet | kilograms | 2.20 | pounds |
| meters | 1.09 | yards | kilograms | 2.68 | pounds (apoth.) |
| kilometers | 0.62 | miles | tons (1,000 kg) | 1.10 | short tons |
| inches | 25.40 | millimeters | ounces | 28.35 | grams |
| inches | 2.54 | centimeters | ounces (apoth.) | 31.10 | grams |
| feet | 30.48 | centimeters | pounds | 0.45 | kilograms |
| yards | 0.91 | meters | pounds (apoth.) | 0.37 | kilograms |
| miles | 1.61 | kilometers | short tons (2,000 lb) | 0.91 | metric tons |
| speed | | | | | |
| miles per hour | 1.61 | kilometers per hour | temperature | | |
| kilometers per hour | 0.62 | miles per hour | degrees Fahrenheit | $(^{\circ}\text{F} - 32) \div 1.8$ | degrees Celsius |
| volume | | | degrees Celsius | $(^{\circ}\text{C} \cdot 1.8) + 32$ | degrees Fahrenheit |
| milliliters | 0.20 | teaspoons | metric prefixes | | |
| milliliters | 0.07 | tablespoons | prefix | symbol | factor |
| milliliters | 0.03 | fluid ounces | exa- | E | 10^{18} |
| liters | 4.23 | cups | peta- | P | 10^{15} |
| liters | 2.11 | pints | tera- | T | 10^{12} |
| liters | 1.06 | quarts | giga- | G | 10^9 |
| liters | 0.26 | gallons | mega- | M | 10^6 |
| cubic meters | 35.31 | cubic feet | kilo- | k | 10^3 |
| cubic meters | 1.31 | cubic yards | hecto- | h | 10^2 |
| teaspoons | 4.93 | milliliters | deca- | da | 10^1 |
| tablespoons | 14.79 | milliliters | deci- | d | 10^{-1} |
| fluid ounces | 29.57 | milliliters | centi- | c | 10^{-2} |
| cups | 0.24 | liters | milli- | m | 10^{-3} |
| pints | 0.47 | liters | micro- | μ | 10^{-6} |
| quarts | 0.95 | liters | nano- | n | 10^{-9} |
| gallons | 3.79 | liters | pico- | p | 10^{-12} |
| cubic feet | 0.03 | cubic meters | femto- | f | 10^{-15} |
| cubic yards | 0.76 | cubic meters | atto- | a | 10^{-18} |

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