

Mathematics Reference Sheet

Conversions

U.S. Customary

1 foot = 12 inches
1 yard = 3 feet
1 mile = 5280 feet
1 acre = 43,560 square feet
1 cup = 8 fluid ounces
1 pint = 2 cups
1 quart = 2 pints
1 gallon = 4 quarts
1 gallon = 231 cubic inches
1 pound = 16 ounces
1 ton = 2000 pounds
1 cubic foot \approx 7.5 gallons

U.S. Customary to Metric

1 inch = 2.54 centimeters
1 foot \approx 0.3 meter
1 mile \approx 1.61 kilometers
1 quart \approx 0.95 liter
1 gallon \approx 3.79 liters
1 cup \approx 237 milliliters
1 pound \approx 0.45 kilogram
1 ounce \approx 28.3 grams
1 gallon \approx 3785 cubic centimeters

Time

1 minute = 60 seconds
1 hour = 60 minutes
1 hour = 3600 seconds
1 year = 52 weeks

Temperature

$$C = \frac{5}{9}(F - 32)$$

$$F = \frac{9}{5}C + 32$$

Metric

1 centimeter = 10 millimeters
1 meter = 100 centimeters
1 kilometer = 1000 meters
1 liter = 1000 milliliters
1 kiloliter = 1000 liters
1 milliliter = 1 cubic centimeter
1 liter = 1000 cubic centimeters
1 cubic millimeter = 0.001 milliliter
1 gram = 1000 milligrams
1 kilogram = 1000 grams

Metric to U.S. Customary

1 centimeter \approx 0.39 inch
1 meter \approx 3.28 feet
1 kilometer \approx 0.62 mile
1 liter \approx 1.06 quarts
1 liter \approx 0.26 gallon
1 kilogram \approx 2.2 pounds
1 gram \approx 0.035 ounce
1 cubic meter \approx 264 gallons