

Length:

- 1000 millimeters = 1 meter
- 100 centimeters = 1 meter
- 1000 meters = 1 kilometer

Mass (or weight):

- 1000 milligrams = 1 gram
- 1000 grams = 1 kilogram
- 1000 kilograms = 1 metric ton

Volume:

- 1000 milliliters = 1 liter
- 1000 liters = 1 cubic meter

Area:

- 10 000 square meters = 1 hectare
- 100 hectares = 1 square kilometer

Prefixes:

- micro means 1/1 000 000
- milli- means 1/1000
- centi- means 1/100
- kilo- means 1000
- mega- means 1 000 000

Symbols:

- m for meter
- mm for millimeter
- cm for centimeter
- km for kilometer
- g for gram
- mg for milligram
- kg for kilogram
- L for liter
- mL for milliliter
- m² for square meter
- m³ for cubic meter
- km² for square kilometer
- t for metric ton
- ha for hectare

Some special relationships:

- 1 milliliter = 1 cubic centimeter
- 1 milliliter of water has a mass of approximately 1 gram
- 1 liter of water has a mass of approximately 1 kilogram
- 1 cubic meter of water has a mass of approximately 1 metric ton

Legal/official (exact) definitions of inch-pound units as set by U.S. law:

- 1 inch = 25.4 millimeters
- 1 pound = 453.592 37 grams
- 1 gallon = 3.785 411 784 liters

Note: In Canada the inch and the pound are defined identically, but 1 Canadian gallon = 4.546 09 liters.

Approximate conversion factors between inch-pound units and the International System of Units (SI):

- Multiply inches by 2.54 to get centimeters (this conversion factor is **exact**)
- Multiply feet by 0.305 to get meters
- Multiply miles by 1.6 to get kilometers
- Divide pounds by 2.2 to get kilograms
- Multiply ounces by 28 to get grams
- Multiply fluid ounces by 30 to get milliliters
- Multiply gallons by 3.8 to get liters