

ORCCA - Appendix B

Unit Conversions Reference Sheet

Table B.0.1: Length Unit Conversion Factors

Units of Length in the US/Imperial System	Units of Length in the Metric System	System to System Length Conversions
1 foot (ft) = 12 inches (in)	1 meter (m) = 1000 millimeters (mm)	1 inch (in) = 2.54 centimeters (cm)
1 yard (yd) = 3 feet (ft)	1 meter (m) = 100 centimeters (cm)	1 meter (m) ≈ 3.281 feet (ft)
1 yard (yd) = 36 inches (in)	1 meter (m) = 10 decimeters (dm)	1 meter (m) ≈ 1.094 yard (yd)
1 mile (mi) = 5280 feet (ft)	1 dekameter (dam) = 10 meters (m)	1 mile (mi) ≈ 1.609 kilometer (km)
	1 hectometer (hm) = 100 meters (m)	
	1 kilometer (km) = 1000 meters (m)	

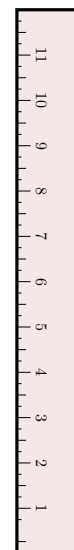


Table B.0.2: Area Unit Conversion Factors

Units of Area in the US/Imperial System	Units of Area in the Metric System	System to System Area Conversions
1 acre = 43560 square feet (ft ²)	1 hectare (ha) = 10000 square meters (m ²)	1 hectare (ha) ≈ 2.471 acres
640 acres = 1 square mile (mi ²)	100 hectares (ha) = 1 square kilometer (km ²)	

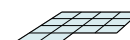


Table B.0.3: Volume Unit Conversion Factors

Units of Volume in the US/Imperial System	Units of Volume in the Metric System	System to System Volume Conversions
1 tablespoon (tbsp) = 3 teaspoon (tsp)	1 cubic centimeter (cc) = 1 cubic centimeter (cm ³)	1 cubic inch (in ³) ≈ 16.39 milliliters (mL)
1 fluid ounce (floz) = 2 tablespoons (tbsp)	1 milliliter (mL) = 1 cubic centimeter (cm ³)	1 fluid ounce (floz) ≈ 29.57 milliliters (mL)
1 cup (c) = 8 fluid ounces (floz)	1 liter (L) = 1000 milliliters (mL)	1 liter (L) ≈ 1.057 quarts (qt)
1 pint (pt) = 2 cups (c)	1 liter (L) = 1000 cubic centimeters (cm ³)	1 gallon (gal) ≈ 3.785 liters (L)
1 quart (qt) = 2 pints (pt)		
1 gallon (gal) = 4 quarts (qt)		
1 gallon (gal) = 231 cubic inches (in ³)		

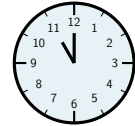


Table B.0.4: Weight/Mass Unit Conversion Factors

Units of Mass/Weight in the US/Imperial System	Units of Mass/Weight in the Metric System	System to System Mass/Weight Conversions
1 pound (lb) = 16 ounces (oz)	1 gram (g) = 1000 milligrams (mg)	1 ounce (oz) ≈ 28.35 grams (g)
1 ton (T) = 2000 pounds (lb)	1 kilogram (kg) = 1000 grams (g)	1 kilogram (kg) ≈ 2.205 pounds (lb)
	1 metric ton (t) = 1000 kilograms (kg)	

**Table B.0.5:** Time Unit Conversion Factors

Precise Units of Time	Imprecise Units of Time	Units of Time in the Metric System
1 week (wk) = 7 days (d)	1 year (yr) ≈ 12 months (mo)	1 second (s) = 1000 milliseconds (ms)
1 day (d) = 24 hours (h)	1 year (yr) ≈ 52 weeks (wk)	1 second (s) = 10 ⁶ microseconds (μs)
1 hour (h) = 60 minutes (min)	1 year (yr) ≈ 365 days (d)	1 second (s) = 10 ⁹ nanoseconds (ns)
1 minute (min) = 60 seconds (s)	1 month (mo) ≈ 30 days (d)	

**Table B.0.6:** Computer Storage/Memory Conversion Factors

Bytes and Bits	Bytes and Bytes	Bits and Bits
1 byte (B) = 8 bits (b)	1 kilobyte (kB) = 1024 bytes (B)	1 kilobit (kb) = 1024 bits (b)
1 kilobyte (kB) = 8 kilobits (kb)	1 megabyte (MB) = 1024 kilobytes (kB)	1 megabit (Mb) = 1024 kilobits (kb)
1 megabyte (MB) = 8 megabits (Mb)	1 gigabyte (GB) = 1024 megabytes (MB)	1 gigabit (Gb) = 1024 megabits (Mb)
1 gigabyte (GB) = 8 gigabits (Gb)	1 terabyte (TB) = 1024 gigabytes (GB)	1 terabit (Tb) = 1024 gigabits (Gb)

