

METRIC EQUIVALENTS TABLE

Mass Equivalents

1 kilogram	=	1000 grams
1 gram	=	1000 milligrams
1 gram	=	1 milliliter (H ₂ O only)
1 kilogram	=	2.205 pounds
454 grams	=	1 pound

Volume Equivalents

1 liter	=	1.06 quarts
1 liter	=	1000 milliliters
1 milliliter	=	1 cubic centimeter
0.9463 liter	=	1 quart
3.785 liters	=	1 gallon

Length Equivalents

1 kilometer	=	1000 meters
1 meter	=	100 centimeters
1 meter	=	1000 millimeters
1 centimeter	=	10 millimeters
1 centimeter	=	0.3937 inches
1 meter	=	1.094 yards
1 meter	=	39.37 inches
1 meter	=	3.281 feet
1 kilometer	=	0.6214 mile
2.54 centimeters	=	1 inch
30.48 centimeters	=	1 foot
1.609 kilometers	=	1 mile
5280 feet	=	1 mile
3 feet	=	1 yard

Temperature Equivalents

Celsius to Fahrenheit Conversion

$$\text{Fahrenheit Temperature} = \left(\frac{9}{5} \times ^\circ\text{C}\right) + 32.0$$

Fahrenheit to Celsius Conversion

$$\text{Celsius Temperature} = \frac{5}{9} (^{\circ}\text{F} - 32.0)$$

Celsius to Kelvin Conversion

$$\text{Kelvin Temperature} = ^\circ\text{C} + 273$$

Unit Conversion Practice

Convert the following to the units specified

1. 5 m to cm

2. 360 cm to m

3. 2 kg to g

4. 2 m² to cm²

5. 50,000 cm² to m²

6. 400 cm³ to mm³

7. 50 cm³ to mL

8. 8 km/hr to m/s