

Unit 0 Lesson II

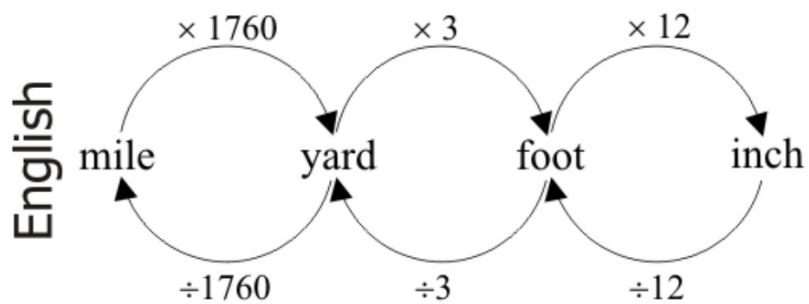
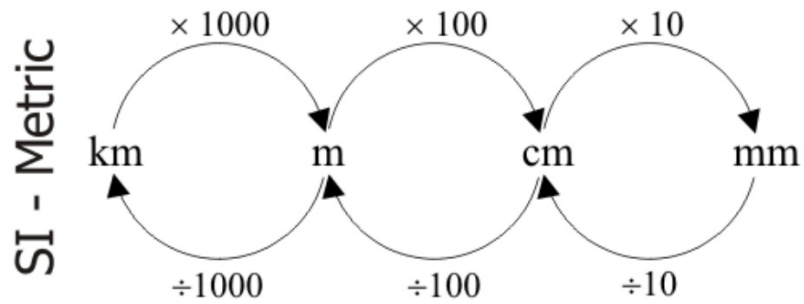
Units of Measurement

Objective: The student will be able to use the factor-label method and dimensional analysis to interconvert between different units.

Units of Measurement

The Metric System

Multiply to change larger units to smaller units.

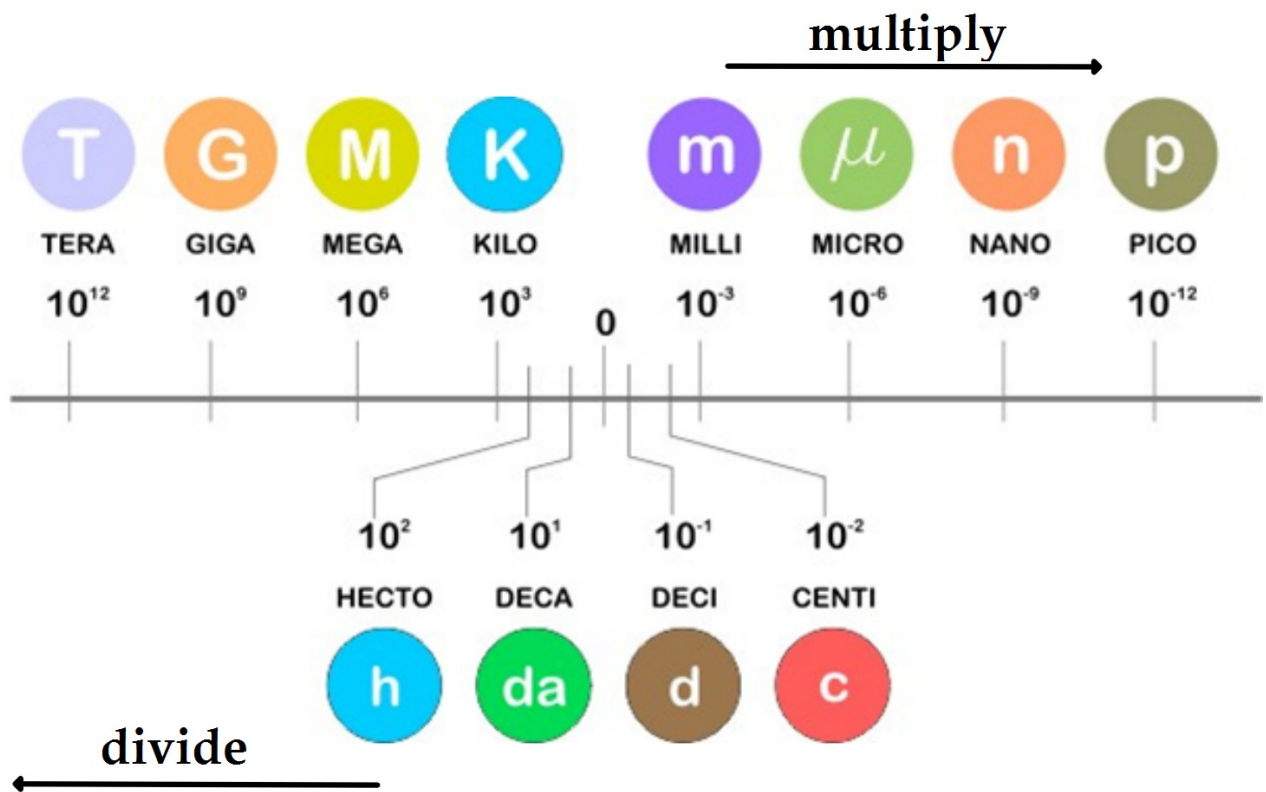


Divide to change smaller units to larger units.

Measurements and their Units

Mass	kilogram (kg)
Time	second (s or sec)
Length	meter (m)
Quantity (Amount of substance)	mole (mol)
Luminous Intensity	candela (cd)
Electric current	ampere (A or amp)
Temperature	Kelvin (K)

The Metric Scale



change deca to "deka" and da to "dk"

Mnemonic Device

How to Remember the Metric System Prefixes

discuss which portions of the metric scale we will use

Metric Unit Practice

a) $1000 \text{ mg} = \underline{\hspace{2cm}} \text{ g}$

b) $1 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$

c) $160 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$

d) $14 \text{ km} = \underline{\hspace{2cm}} \text{ m}$

e) $109 \text{ g} = \underline{\hspace{2cm}} \text{ dg}$

f) $250 \text{ hm} = \underline{\hspace{2cm}} \text{ cm}$