

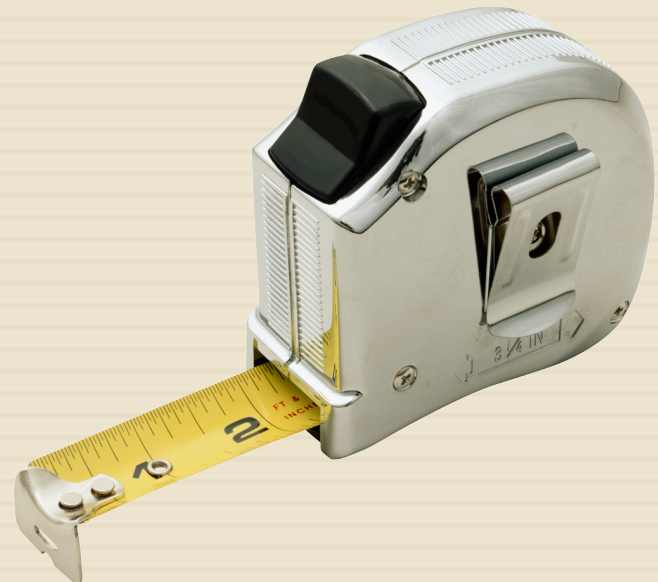


METRIC SYSTEM REVIEW



Basics of Metric System

- Also called SI (Systeme Internationale)
- Base-10 system (easier to convert)
- Used in every country except:
 - ▣ USA
 - ▣ Liberia
 - ▣ Myanmar (Burma)



Metric System (SI) Units

Length

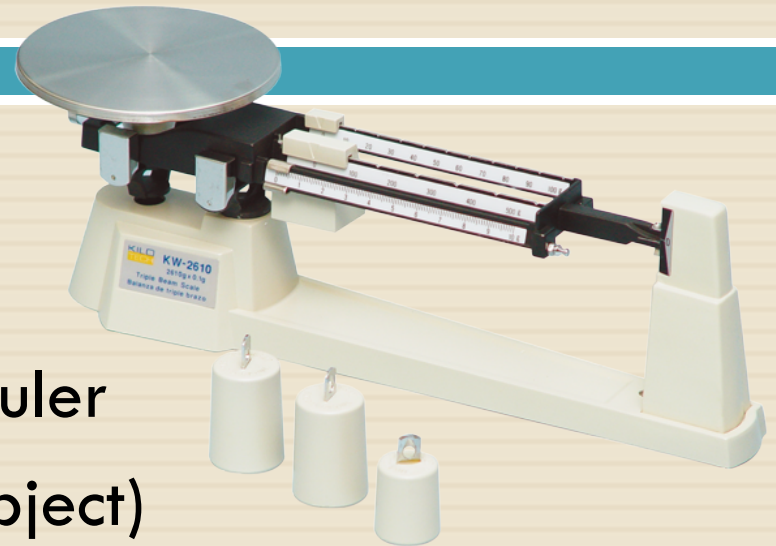
- ❑ Basic unit: meter (m)
- ❑ Tool: Meter stick or metric ruler

Mass (amount of matter in an object)

- ❑ Basic unit: gram (g)
- ❑ Tool: Triple-beam balance

Volume (amount of space an object takes up)

- ❑ Basic unit: Liter (L)
- ❑ Tool: Graduated cylinder for liquid volume/irregular objects; Ruler (LxWxH) for regular shapes



Units, Continued

Temperature

- ▣ Basic unit: Celsius ($^{\circ}\text{C}$)
- ▣ Tool: thermometer

Time

- ▣ Basic unit: Second (s)
- ▣ Tool: A watch or clock



Weight (measure of the force of gravity on an object)

- ▣ Basic unit: Newton (N)
- ▣ Tool: Newton spring scale

How Do I Convert Metric Units?

kilo	hecto	deka	BASE UNIT	deci	centi	milli
k	h	da	gram (g)	d	c	m
1000	100	10	meter (m) liter (L)	0.1	0.01	0.001

1. Find the unit you're starting with on the chart
2. Count the number of "jumps" to your ending point.
3. Move the decimal the same number of spaces in the same direction

Practice Problems

kilo	hecto	deka	BASE UNIT	deci	centi	milli
k	h	da	gram (g)	d	c	m
1000	100	10	meter (m) liter (L)	0.1	0.01	0.001

Using the chart, convert these:

- $35 \text{ ml} = ? \text{ dl}$
- $2000 \text{ mm} = ? \text{ km}$
- $0.752 \text{ hg} = ? \text{ cg}$