

Metrics

Basic Units of measurement:

THE UNIT FOR LENGTH _____

THE UNIT FOR VOLUME _____

THE UNIT FOR MASS _____

WHAT IS THE DIFFERENCE BETWEEN MASS AND WEIGHT?

TO INDICATE IF A MEASUREMENT IS LARGER OR SMALLER THAN THE
BASIC UNIT, METRIC _____ ARE USED.

LIST THE METRIC PREFIXES AND INDICATE THE EXPONENT AND

DECIMAL VALUES

<u>EXPONENT VALUE</u>	<u>PREFIX</u>	<u>DECIMAL</u>
-----------------------	---------------	----------------

TERA

GIGA

MEGA

KILO

HECTO

DEKA

BASIC UNIT (METER, LITER, GRAM)

deci

centi

milli

micro

nano

angstrom

pico

femto

atto

THE SLIDING SCALE FOR METRIC CONVERSION

KILO HECTO DEKA UNIT deci centi milli

13. Conversion Problems

A. How many grams in 1 KILOGRAM? _____

B. How many centiliters in 1 LITER? _____

C. HOW MANY milligrams in 4 KILOGRAMS? _____

D. HOW MANY HECTOMETERS in 2.5 METERS? _____

E. HOW MANY DEKAMETERS in 1 METER? _____

F. HOW MANY METERS IN 4.33 DEKAMETERS? _____

G. HOW MANY METERS in 1 HECTOMETER? _____

14. Add the following

A. Answer in GRAMS:

.44 DEKAGRAMS

1.44 milligrams

B. Answer in LITERS:

64 deciliters

.001 KILOLITERS

C. Answer in METERS:

1.00 DEKAMETERS

.0001 HECTOMETERS

1.111 decimeters

TEMPERATURE

FAHRENHEIT

CELSIUS

boiling point:

Freezing point:

If you know Fahrenheit and want to find Celsius, then use the formula:

example: $50\text{ F} = ?\text{ C}$

If you know Celsius and want to find Fahrenheit, then use the formula:

example: $10\text{ C} = ?\text{ F}$

Write the formula for area

Write the formula for volume