

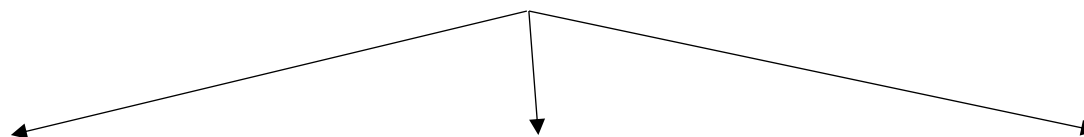
Name: _____

Period: _____

#: _____

The Metric System

o



| | <u>Distance</u> | <u>Volume</u> | <u>Mass</u> |
|-------------------|-----------------|---------------|-------------|
| <u>Definition</u> | | | |
| <u>Unit</u> | | | |
| <u>Tool</u> | | | |
| <u>Method</u> | | | |

Using the Metric System

Phrase: _____

Prefixes:

_____ → _____ → _____ → _____ → _____ → _____ → _____

_____ → _____ → _____

_____ → _____ → _____

$$.001 \text{ km} = .01 \text{ hm} = .1 \text{ dam} = 1.0 \text{ m} = 10 \text{ dm} = 100 \text{ cm} = 1,000 \text{ mm}$$

*****Based on ten! You are multiplying or dividing by 10! Simply move the decimal point left or right!*****

When converting, you need to consider:

How many decimal places are you moving?

In which direction?

NOW, move your decimal that many places in that direction! DONE!

Examples:

753 grams = _____ kilograms

4.72 meters = _____ centimeters

34.6 decagrams = _____ decigrams

.562 hectoliters = _____ milliliters

1,389.5 decimeters = _____ hectometers

48.3 decameters = _____ decimeters

| | OBJECT | UNIT | REASON |
|-----------------|--------------------------|------|--------|
| Mass (g) | Cell phone | | |
| | Your body | | |
| Distance (m) | School to home | | |
| | Toe to heel of your shoe | | |
| Volume (L) | Water bottle | | |
| | Water in a pool | | |

