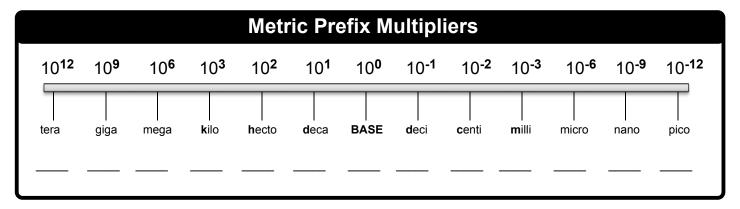
CONCEPT: METRIC PREFIXES

• Metric Prefixes are modifiers that are multiples of _____.



MEMORY TOOL

The Great Monarch King Henry's Daughter Barbara drinks chocolate milk until nine pm



• The metric prefixes act as "labels" that can be placed in front of various base units.

Metric Prefixes			
Base Units	Metric Prefixes	Base Units	Metric Prefixes
L	L	mol	mol
s	s	А	A

EXAMPLE: Convert the following value to the desired units: 694 kg to μg

STEP 1: If the given value has a metric prefix then convert it to the _____ unit.

- □ In order to cancel out units always make sure they are on opposite levels.
- □ Always place the coffecient _____ on the side with the metric prefix.

STEP 2: If necessary, convert the _____ unit to a new metric prefix.

CONCEPT: METRIC PREFIXES

PRACTICE: Which quantity in the following pair is smaller?

155 pm or 7.8 x 10⁻⁹ cm

PRACTICE: Use the prefix multipliers to express each measurement without any exponents.

PRACTICE: Use scientific notation to express each quantity with only the base unit.

PRACTICE: If a room has a volume of 1.15 x 10⁸ cm³, what is the volume in km³?