THE SYSTEME INTERNATIONAL D'UNITES (SI)

Name _____

The measuring system used in science is the SI, which was adopted according to an international agreement reached in 1960. It is based on the metric system. The standard units in SI are:

Property	Unit	Symbol
mass	kilogram	kg
distance	meter	m
time	second	S
electric current	Ampere	A
temperature	Kelvin	K
amount of substance	mole	mol

As with the metric system, the SI utilizes prefixes to change the value of units. The following units are frequently used in science:

Prefix	Symbol	Value	
mega-	М	1 000 000	
kilo-	k	1 000	
deci-	d	0.1	
centi-	C	0.01	
milli-	m	0.001	
micro-	μ	0.000 001	
nano-	n	0.000 000 0001	

Example: How many meters are equivalent to 500 mm? 500 m/m x = 0.5 m1 000 mm

Make the following conversions within the SI.

$$5. 2.5 L = mL$$

3.
$$35 \text{ cg} = \underline{\qquad} \text{g}$$
 7. $50,000 \, \mu\text{m} = \underline{\qquad} \text{m}$

7.
$$50.000 \, \mu \text{m} = \text{m}$$

What would be a reasonable unit to use to measure the following?

11. distance from earth to moon

12. length of a bacterium

13. mass of a bowling ball

14. mass of an aspirin tablet

15. dropperful of medicine

g)

in