

### Dimensional Analysis Worksheet #1

H/Chemistry

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Period: 1 2 3 4 5 6 7

#### A. Metric Conversions.

Convert the following values into the units indicated.

Show your work. (i.e. the row of conversion factors).

Convert answers to scientific notation for answers  $> 99,999$  and answers  $< 0.001$

1. 3 m $\rightarrow$ _____ cm	6. 0.0236 kg $\rightarrow$ _____ mg
2. 8,569 g $\rightarrow$ _____ kg	7. 0.2 cm $\rightarrow$ _____ mm
3. 10 km $\rightarrow$ _____ m	8. 5,458,698 $\mu\text{m}$ $\rightarrow$ _____ mm
4. a) 3,264 mL $\rightarrow$ _____ L  b) 986,365 mL $\rightarrow$ _____ L	9. a) 6.5 mL $\rightarrow$ _____ nL  b) 444,444 $\mu\text{m}$ $\rightarrow$ _____ cm
5. 64,596 mm $\rightarrow$ _____ km	10. 3.1 kb $\rightarrow$ _____ Gb