Intro Unit Assessment Redo - Worksheet

In order to re-submit your introduction assessment for re-grading, you must also submit this worksheet and get at least 90% on it. You will probably have to use outside sources beyond the course material to help you complete this worksheet.

Units

	Unit	**Symbol**	**Equivalent Combination**
Mass			
Length			
Time			
Current			
Temperature			
Force			
Velocity			
Acceleration			
Volume-liq			
Volume-sol			
Area			
Power			
Density			
Energy			
Frequency			
Current			
Angle			
Pressure			

Conversions

$100\,\text{mm} \Rightarrow$ _____ m

$1\,\text{A} \Rightarrow$ _____ µA

$0.89\,\text{Gs} \Rightarrow$ _____ Ms

$0.02\,\text{N} \Rightarrow$ _____ mN

$3141\,\text{W} \Rightarrow$ _____ kw

$1\,234\,567\,\text{Hz} \Rightarrow$ _____ MHz

$0.000\,387\,\text{L} \Rightarrow$ _____ µL

$3\,\text{GJ} \Rightarrow$ _____ MJ

$1867\,\text{g} \Rightarrow$ _____ kg

$0.045\,\text{V} \Rightarrow$ _____ mV

$3274\,\text{nL} \Rightarrow$ _____ mL

$1234\,\text{mg} \Rightarrow$ _____ g

$0.6745\,\text{kW} \Rightarrow$ _____ W

$86.400\,\text{s} \Rightarrow$ _____ ks

$123\,\text{m}\Omega \Rightarrow$ _____ Ω

$0.456\,\text{mF} \Rightarrow$ _____ µF

$273\,\text{MW} \Rightarrow$ _____ GW

$200\,000\,\text{m} \Rightarrow$ _____ km

$31\,415\,926\,\text{mm} \Rightarrow$ _____ km

$62\,831\,852\,\mu\text{g} \Rightarrow$ _____ g

$2022\,\text{kJ} \Rightarrow$ _____ MJ

Communication

Make an observation, come up with a model to explain your observation, and come up with a test for your model. Here is an example;

> Question: Why do sidewalks have cracks at regular intervals? Model: Maybe each section is the same amount of concrete that one wheel-barrow will hold. Test: I'll look up the volume of a wheel barrow and estimate the volume of a section of side walk and see if they are the same.