**Video Notes: Dimensional Analysis or *How to Convert Units***

There are many units that can be used for measurements. Often it is necessary to convert one unit to another. The best way to do this is to use a ***conversion factor*** which is making fractions from equivalent measures.

**The General Formula**

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ X \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Example: You have 7.3 m, the units you want are cm***

***The equivalent is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cm = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ meter***

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ X \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Example: How about Converting 200 lbs to Kg?***

 ***The equivalent is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Kg = \_\_\_\_\_\_\_\_\_\_\_\_ lbs***

Example: One More? Let’s convert $50 into ¥ (YEN)

 The equivalent is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ¥