Today's Learning Goal(s):

By the end of the class, I will be able to:

a) convert from imperial to metric units, and metric to imperial unit
b) convert to a different unit**within** the metric system.

6.1.2 Converting between Imperial and Metric Units

Date: *May 16/17*

When converting **from Imperial** to Metric:
  Use the **front** of the conversion card (6.1.1)
  Find the unit you are given on the chart, and immediately multiply by the factor given to convert to metric.
  Then, if necessary, move the decimal place appropriately to achieve the required metric unit.

Ex.1   Convert the following:

a) 27 inches to mm

27 x 2.5 = __**67.5**__ cm

__**67.5**__ cm = __**675**__ mm

b) 1200 yards to km

1200 x 0.9 = __**1080**__ m

__**1080**__ m = __**1.080**__ km

c) 4 teaspoons to cL

4 x 5 = __**20**__ mL

__**20**__ mL = __**2.0**__ cL

When converting **from Metric** to Imperial:
  Use the **back** of the conversion card (6.1.1)
  Look for the required imperial unit in the right column.
  If the given metric unit is not in the left column,
      move the decimal place appropriately to achieve an equivalent metric unit.
  Then multiply by the factor given to convert to imperial.

(See next page for Metric review)

Ex.2   Convert the following:

a) 7300 m to miles

7300 m = __**7.3**__ km

__**7.3**__ km x 0.6 = __**4.38**__ miles

b) 2 L to fluid ounces

2L = __**2000**__ mL

__**2000**__ mL x 0.03 = __**60**__ fl.oz

Note:
Many answers in the solutions section will not match your answers.
They are most likely <u>more</u> accurate, but the conversion sheet we are using has already been rounded.

Answers:
Ex1. a) 27 inches = 67.5 cm
          67.5 cm = 675 mm
    b) 1200 yards = 1080 m
          1080 m = 1.08 km
    c) 4 tsp = 20 mL
          20 mL = 2 cL

Ex2. a) 7300 m = 7.3 km
          7.3 km = 4.38 mi
    b) 2 L = 2000 mL

Be Ready for the Unit 5 Summative!!

Today's work
   6.1.3   5-8, 12-16, 19, 20, 22

km   hm   dam   m   dm   cm   mm

3 m   _300._ cm   _3000_ mm

_6.0_ dam 60 m

_0.005_ km   _0.5_ dam   5 m

400 m   _4000_ dm

L

g