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 units.
b) convert to a different unit **within** the metric system.

Today's Homework is posted
in our Google Classroom.

6.1.2 Converting between Imperial and Metric Units

Date: Dec. 5/19

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 __more__ 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

Today's work (*Posted in Google Classroom.*)
6.1.2, 6.1.3   5-8, 12-16, 19, 20, 22

km   hm   dam   m   dm   cm   mm

3 m   _300_ cm   _3000_ mm

_6_ dam 60 m

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

400 m   _4000_ dm

L

g