

# Unit Conversions

## Lesson overview:

**Objective:** The student will be able to interconvert units to reach desired quantities.

## Connections:

- @ Home -- How many cups do I need in a pint?
- @ Engineering -- How many pounds per square inch (psi) are required by regulation?
- @ Sports -- We're inches away from a first down. How many centimeters do we have to go?

# **Unit Conversions**

## **Factor Label**

**(given, know, need)**

### **Example 1**

How many cups are in 4.5 pints (pt.)?

## Example 2

*Most times you will encounter multi-step problems.*

*Just keep it going.*

How many inches are in 355 millimeters?

How many minutes are in 34.5 years?

Ex. 3

If an object can move at a rate of **23.670 microns per nanosecond**, how fast is it moving, in units of **miles per hour**? Ex. 4  
*Note: microns are the same thing as micrometers.*