Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Period \_\_\_\_\_

**Dimensional Analysis Quiz Review**

**Perform the following calculations using dimensional analysis. Show your work.** **Give answers with the proper number of significant digits and unit.**

* 1. Convert 2.457 gallons to milliliters.
  2. Convert 921.4 nanometers to feet.
  3. Convert 78.5 mi/hr to in/min.
  4. Imagine you’ve got a 2-liter bottle of soda and some glasses that hold 12 fluid ounces. How many full glasses of soda will you be able to pour form that one bottle?
  5. Some species of *Paramecium* can move at the rate of 1.00 x 103µm/s. What is the equivalent rate in km/h?
  6. A girl needs to heat a reaction mixture for 9.85 hours. How long must the mixture be heated in minutes?