Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class period: \_\_\_\_

MC900130271[2]

**Unit: Dimensional Analysis Answer Key**

**“One, Two, and More Step Problems” – WS #2**

# **Directions:** Use dimensional analysis to perform the following calculations. Show all work and include units. Use correct sig figs!

# How many g are equal to 345.7 mg?

# Change 0.00765 kL into mL.

# How many seconds are there in 2.5 days?

# How many minutes are there in 1.000 week?

1. How many seconds long is this chemistry class if it lasts 40.0 minutes?

# A chemistry student’s height is measured at 68.5 inches. How tall is the student in cm?

# This same chemistry student has a weight of 155 lbs. What is the student’s weight in grams? (16oz=1lb, 1 oz = 28.34 g)

# A homerun in a baseball game was measured at 450 feet. How many meters is this equal to?

1. Mount Everest is approximately 8,000 meters high. How many miles high is Mount Everest?
2. A 5.0 km race is scheduled for this weekend. How many miles is this race?