

Day 8 – Dimensional Analysis**Name:** _____**Practice Assignment****Date:** _____ **Block:** _____

Use dimensional analysis to convert the following. Round your answers to the nearest tenth. You MUST set up each problem using a conversion factor.

One & Two Step Dimensional Analysis

1. How many feet are in 5 miles?

Possible Conversion Factors

2. How many minutes are in 4680 seconds?

3. How many gallons are in 200 quarts?

4. How many pounds are in 9,102 grams? (Use 1 lb = 453.6 grams)

Multi-Step Dimensional Analysis

5. How many pints are in 3 gallons?

6. How many inches are in 2 miles?

7. How many inches are in 3 kilometers? (use 1 in = 2.54 cm)

8. Keenan wants to make sure he has enough homemade iced tea for everyone. He makes 2 gallons of iced tea. He wants to have enough for 40 cups of tea. Did he make enough?