

College Prep Chemistry of the Earth System

Assignment 6C

30 Points

Dimensional Analysis Review

*Answer the following questions*

1. For the following measurements label the quantity, unit, and label. List the type of measurement (*mass, volume, temperature, pressure*)
  - a. 49.28g H<sub>2</sub>O
  - b. 1.90atm CO<sub>2</sub>
  - c. 130.0°C Beaker
  - d. 390.2mL CH<sub>3</sub>OH
2. Perform the following unit conversions
  - a. 25.6cm to in (*1in = 2.54cm*)
  - b. 58.7in to cm
  - c. 34.6cm to m (*1m = 100cm*)
  - d. 0.94m to cm
  - e. 25.7oz to lbs (*1lb = 16oz*)
  - f. 3.48lb to oz
  - g. 0.875kg to g (*1kg = 1000g*)
  - h. 485.3g to kg
  - i. 4.87gal to quarts (*1gal = 4qt*)
  - j. 27.9quarts to gal