

Unit Conversions Revisited

Name - _____

- 1.) If one mole of a gas has a volume of 22.4 L , how many moles are there in 25.0 L of gas?
- 2.) How many seconds must an electrical current of $35\frac{\text{coulombs}}{\text{s}}$ flow in order to deliver 200.0 coulombs of charge?
- 3.) The density of mercury metal is $13.622\frac{\text{g}}{\text{mL}}$. What is the mass of 3.55 mL of the metal?
- 4.) The density of table salt is $2.16\frac{\text{g}}{\text{mL}}$. What is the mass of 100 mL of this solid?
- 5.) A particle moves through a gas at a speed of $0.015\frac{\text{km}}{\text{s}}$. How far will it move in 5.5 s ?
- 6.) A solution contains 61.33 g of barium nitrate per 1 L . How many grams of barium nitrate are contained in 2.70 L of this solution?