

***CHEM105H Unannounced Quiz 1***  
***Please show all formulas and work to receive any credit***

***Name on back of paper only***

1. Convert the following measurements into the stated units
  - a. 527.5 nm into meters
  - b. 2.3 pg into kilograms
  - c. 23,457,875 bytes into gigabytes
  - d. 50.2  $\mu\text{L}$  into cubic centimeters
  
2. Silver has a density of  $10.50 \text{ g/cm}^3$  at 298.15 K.
  - a. Determining the mass, in grams, that is equivalent to 5.00 ounces of silver (1 lb = 453.6 grams, 1 lb = 16 ounces).
  
  - b. Calculate the volume, in  $\text{cm}^3$ , occupied by 5.00 ounces of silver.
  
  - c. Convert the calculated  $\text{cm}^3$  in part b to deciliters (dL) of volume.