Name ___________________________
Date ____________________________
Due Date ________________________

Mark ________/24
Correct and Hand in Again by _____________

Chemistry 11

Hand In Assignment # 4 – Mass, Mole, Volume Conversions
This Assignment will be marked and you are allowed to do one set of corrections.

1. Make the following conversions, clearly showing your steps. Include proper units in all of your work and in your answer. Use your periodic table and express all molar masses to 1 decimal place.

   a. 137.5 grams of PCl₃ = ? moles (2 marks)

      Answer ___________________________

   b. 0.00256 moles of SrCrO₄ = ? grams (2 marks)

      Answer ___________________________

   c. 92.288 L of NO₂ at STP = ? moles (2 marks)

      Answer ___________________________

   d. 3.2 x 10² moles of SO₃ gas at STP = ? L (2 marks)

      Answer ___________________________
e. 806.895 g of PCl_5 gas = ? L (STP) (4 marks)

Answer ___________________________

f. 3136 mL of CH_4 gas at STP = ? g (4 marks)

Answer ___________________________

g. 2.25 kg of nitrogen gas = ? L (STP) (4 marks)

Answer ___________________________

h. 0.00285 kg of C_2H_6(g) = ? mL (4 marks)

Answer ___________________________