

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 $\text{PCl}_3 = ?$ moles (2 marks)

Answer _____

b. 0.00256 moles of $\text{SrCrO}_4 = ?$ grams (2 marks)

Answer _____

c. 92.288 L of NO_2 at STP = ? moles (2 marks)

Answer _____

d. 3.2×10^2 moles of SO_3 gas at STP = ? L (2 marks)

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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 $\text{C}_2\text{H}_6(\text{g})$ = ? mL (4 marks)

Answer _____