Chemistry 11 – Mass, Mole, Volume Conversions

3	. 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 $PCl_3 = ?$ moles (2 marks)	
		Answer _
b.	0.00256 moles of SrCrO ₄ = ? grams (2 marks)	
	02 200 L of NO at STD = 2 males (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 mass)	rks)
		Answer
e.	806.895 g of PCl ₅ gas = ? L (STP) (3 marks)	
		Answer

f.	3136 mL of CH_4 gas at $STP = ? g (3 marks)$	
g.	2.25 kg of nitrogen gas = ? L (STP) (3 marks)	Answer
h.	$0.00285 \text{ kg of } C_2H_{6(g)} = \text{? mL (4 marks)}$	Answer
		Answer