Homework #8:

Chemistry 1013 Due Wednesday 11 April in class

Spring 2012 12 pts (1 pt/answer)

Your name:	
8.1. Scientific notation	
Write the following decimal expressions in scientific notation	
a) 1,400,000 g =	
b) 0.000433 s =	
c) 6,050 m =	
8.2. Prefix equivalents	
Write the equivalent prefix values for the above	
a) 1,400,000 g =	
b) 0.000433 s =	
c) 6,050 m =	
8.3. Molecular mass	
Calculate the molecular weight (MW) in grams/mol for the compounds below to the nearest gra	m
a) Natural gas CH ₄ MW=grams/mol	
b) Water H ₂ O MW=grams/mol	
c) Gasoline C ₈ H ₁₈ MW = grams/mol	
8.4. Gram-mole conversions (show work below or no credit) (round answers to nearest whole #)
a) How many moles of CH ₄ in 320 grams of natural gas ?moles	
b) What does 1.111 moles of water weigh?g	
c) How many moles of gasoline in 2,280 grams of gasoline ?moles	