Mini-quiz 19 Chem 1013 Monday 15 March 2013 8 pts

Your name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. The molecular weight of SiO2 is 60 g/mol. If you have 480 grams of SiO2 how many moles do you have ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_moles SiO2
2. The molecular weight of fructose is 360 g/mole. How many grams of fructose in 0.27777 moles of fructose? \_\_\_\_\_\_\_\_\_\_\_\_\_ grams
3. The atomic mass of Neon is 20 g/mol. How many grams are present in 3.01\*1024 atoms of Ne given that 1 mole count = 6.02\*1023? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ grams Ne
4. The molecular weight of ammonia (NH3) is 17 g/mol. How many molecules of NH3 are present in 0.28239 g NH3 given that 1 mole count = 6.02\*1023 ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ molecules NH3

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