

# MiniQuiz 1

Chem 111, Section 2 (Martin, 10:10am)

Fall 1998

- 1a. Which atom below contains exactly 16 protons?  
(a) C      (b) O      (c!) S      (d) Mg      (e) N
- 2a. Which one of the following is predicted to be a stable ionic compound?  
(a)  $\text{NH}_4\text{Cl}_2$     (b) KO      (c) MgOH    (d!)  $\text{CaF}_2$     (e) LiS
- 3a. When potassium becomes a monoatomic ion, how many electrons does it gain or lose?  
(a) gains 1    (b) gains 2    (c) gains 3    (d) loses 2    (e!) loses 1
- 4a. Knowing that the formula of sodium borate is  $\text{Na}_3\text{BO}_3$ , what is the charge on the borate ion?  
(a) -1      (b!) -3      (c) 0      (d) +1      (e) +3
- 5a. The gas nitric oxide, NO, has recently been found to be an intracellular signaling molecule. If you have 15 g of NO, how many moles of NO do you have?  
(a) 2 moles    (b!) 0.5 moles    (c) 15 moles    (d) 30 moles    (e) 1 mole