Name: _____   **Period:** ____

Chemistry – 7.4 Textbook Problems
10 Points Possible

7.4 Review (p. 233) SHOW YOUR WORK!!!!!! (-1 if not)

1. A compound is found to contain 36.48% Na, 25.41% S, and 38.11% O. Find its empirical formula.

2. Find the empirical formula of a compound that contains 53.70% iron and 46.30% sulfur.

3. Analysis of a compound indicates that it contains 1.04 g K, 0.70 g Cr, and 0.85 g O. Find its empirical formula.

DON'T FORGET THE BACK OF THIS PAGE!!!!!!

4. If 4.04 g of N combine with 11.46 g O to produce a compound with a formula mass of 108.0 amu, what is the molecular formula of this compound?

5. The molar mass of a compound is 92 g/mol. Analysis of a sample of the compound indicates that it contains 0.606 g N and 1.390 g O. Find its molecular formula.