Percent Composition and Empirical & Molecular Formulas 1

1. What is the percent composition all atoms in aluminum chlorite?

2. A white powder is found to contain 43.64 % phosphorous and 56.56% oxygen. The molar mass of the compound is 283.88 g/mol. What are the empirical and molecular formulas of this compound? Name this compound.

3. A 10.000-g sample of a compound contains 7.165g chlorine, 2.427g carbon, and 0.407g hydrogen, and the compound has a molecular mass of ***approximately*** 100 g/mol. What is the molecular formula of the compound?