Example Problem: Find the % by mass of ox	cygen in water.
Percentage by mass of element in a compou (mass of element in 1 mol of compound ÷ m	
(<i>after completing lab #1</i>) Find the % of <u>carbon</u> in sodium bicarbonate	(NaHCO₃).
Find the % composition of aluminum oxide. element in the compound.)	(This means to find the % of each
Empirical Formula: simplest nu	umber of
in a	

 $\underline{\text{Example problem}}\text{:}$ Find the empirical formula for a compound containing 56.6 g of K, 8.7 g of C, and 34.7 g of O.

Lesson 84: Percent Composition Notes (cont.) Chemistry with Lab

Step #1. Convert each mass into moles of the element.
Step #2: Divide each by the smallest to find a simple whole number ratio.
Ex. Problems: Work on separate paper.
% Na
% S
% O
(Hint: When $\%$ are given, assume you have 100g of the compound, and the $\%$ changes to grams.)
P_xO_y
g sample
g P
(Hint: After step 2, if the ratio is still not whole numbers, multiply both subscripts by a number, such as 2, to get rid of fractions, such as 0.5.)
The Chemistry Quiz
CR1 CR2 1 2 3
4. 5.