Percent Composition of Mixtures

Solve the following problems showing complete work.
Include the appropriate units.

1. A 12-ounce can of Coca-Cola (355 grams) contains 39g of sugar (Yipe!). What is the percentage of sugar in Coca-Cola?

2. A particular recipe for granola calls for 315 grams of oats, 67.5 grams of nuts, and 67.5 grams of dried fruit. What is the percent composition of each ingredient?

3. The atmosphere is a homogeneous mixture of nitrogen, oxygen, carbon dioxide, argon, and a small percentage of other gases. In a 500. kg sample of air, there are 360. kg of nitrogen, 105 kg of oxygen, and 20. kg of carbon dioxide. The remaining mass is made up from the other gases. What are the percentages of N_2, O_2, and CO_2 in the air?