**Stoich and Formula No Calculator Practice**

1. 160g of oxygen atoms are in a sample of Na2O. What is the mass of the sample?
2. When a copper (II) sulfate hydrate decomposes, 15.9g of copper sulfate and 9.0g of water vapor form. What is the formula for the hydrate, CuSO4 \* X H2O?

***NO CALCULATOR***

1. A sample of an unknown hydrocarbon was burned in excess oxygen to form 110.0 grams of carbon dioxide and 90.0 grams of water. What is a possible empirical formula

of the hydrocarbon?

***NO CALCULATOR***

1. 2S + 3O2 → 2SO3. How many moles of O2 are needed to produce 40 grams of SO3 from S? (Molecular weight SO3 = 80)