**SI WORKSHEET 4**

1. Tetrahydrocannabinol has the formula C21H30O2, what is the percent composition for Carbon in this molecule?

There is a relatively well-known compound with the formula C8H10N4O2, Is this its molecular or empirical formula? Give the molar mass for the empirical formula.

1. A compound is 7.692% Hydrogen and 92.308% Carbon and has a molecular formula of C6H6. What is the empirical formula for this compound?
2. A compound is 60.5% Sodium, 10.5% Hydrogen, and 29.0% Boron, What is an empirical formula for such a compound? What would the molecular formula be for this compound if the compound weighs 190g/mol?
3. There is a compound that is 53.33% oxygen, 6.67% Hydrogen, and 40% Carbon; yet, weighs 180 g/mol. What is the molecular formula for this compound?
4. Name the 7 diatomic elements and their states at room temperature:
5. Balance: H2SO4 + NaOH 🡪 Na2SO4 + H2O