

1. How many protons, electrons, and neutrons are in a neutral atom of potassium having an atomic weight of 39 and atomic number 19? (25)

19 protons, 18 electrons, and 20 neutrons

2. Explain the difference between reactants and products (25)

The difference is that reactants occur on the left side of the equation and products are on the right side of the equation.

3. What are the basic subunits of each of the following major groups of organic molecules: carbohydrates, proteins, nucleic acids, and fats. (25)

Carbohydrates: simple sugars or monosaccharides Proteins: amino acids

Nucleic Acids: nucleotides Fats: glycerol and fatty acids

4. What are the TWO toxic compounds present in chocolate that are harmful to pets. (25)

Caffeine and Theobromine