

Concept Review

Section: The Structure of Atoms

1. **Explain** why the mole is used as a counting unit for atoms.

2. **Draw** and label the parts of a helium atom. Include the mass and charge of each subatomic particle.

3. **Explain** the difference between the atomic number and the mass number of an atom.

4. **Create** a chart that shows the different isotopes of hydrogen. State the mass number of each isotope, and write the number of protons, neutrons, and electrons found in each isotope.

5. **Determine** the mass in grams of each of the following:

- _____ a. 0.60 mol of neon, Ne
_____ b. 5.01 mol of xenon, Xe
_____ c. 1.9 mol of selenium, Se
_____ d. 3.3 mol of gold, Au