**HChem Quiz #2: Matter, Subatomic Particles, and Average Atomic Mass**

1. Label the following pictures as Element, Compound, Homogeneous Mixture or Heterogeneous Mixture.
2. Fill in the missing information in the chart below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Substance:** | **Protons** | **Neutrons** | **Electrons** | **Atom, Ion, or Isotope?** |
| Cl-- | 17 |  |  |  |
| 65Cu | 29 |  |  |  |
| Sc |  | 24 |  |  |
| Pb4+ |  |  | 78 |  |

1. Calculate the average atomic mass of the following element (show your work).

\*54Pb: 5.845%

\*56Pb: 91.754%

\*57Pb: 2.119%

\*58Pb: 0.282%

**HChem Quiz #2: Matter, Subatomic Particles, and Average Atomic Mass**

1. Label the following pictures as Element, Compound, Homogeneous Mixture or Heterogeneous Mixture.
2. Fill in the missing information in the chart below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Substance:** | **Protons** | **Neutrons** | **Electrons** | **Atom, Ion, or Isotope?** |
| Cr3+ | 24 |  |  |  |
| Al |  | 14 |  |  |
| S2- |  |  | 18 |  |
| 109Ag | 47 |  |  |  |

1. Calculate the average atomic mass of the following element (show your work).

\*84Sr: 0.56%

\*86Sr: 9.86%

\*87Sr: 7.00%

\*88Sr: 82.58%