

**CEM 101 Unit 4
Practice Problems**

Write the number of the term below that is described by each of the following:

1. Atomic Number 2. Mass Number 3. Isotopes

_____ # protons + # neutrons

_____ symbolized by Z

_____ # protons

_____ symbolized by A

_____ determines identity of an atom

_____ atoms with same Z but different A

_____ in a neutral atom, same as the number of electrons

_____ atoms of same element but with different # neutrons

Classify each of the following elements as:

a) metal, nonmetal, or metalloid
and

b) representative element, transition element, lanthanide, or actinide

copper

carbon

helium

silicon

potassium

iodine

sulfur

iron

boron

barium

silver

phosphorus

cerium (Ce)

cesium (Cs)

uranium (U)