

# Atomic Calculations-Teacher Answer Key

1. Determine the number of protons, neutrons and electrons for the following elements.

Example Elements	Number of Protons	Number of Neutrons	Number of Electrons
Hydrogen (H)	1	0	1
Lithium (Li)	3	4	3
Boron (B)	5	6	5
Oxygen (O)	8	8	8

2. Which element has a greater number of protons – Potassium (K) or Selenium (Se)?  
**Potassium has 19 protons and Selenium has 34 according to the elements' atomic numbers.**
3. Which element has a smaller number of electrons – Copper (Cu) or Silver (Ag)?  
**Copper has 29 electrons, and Silver has 47 electrons, equaling the number of protons in each element.**
4. Which element has a greater number of neutrons – Magnesium (Mg) or Tin (Sn)?  
**Magnesium has 12 neutrons and Tin has 69, calculated by subtracting the atomic number from the atomic mass (rounded to a whole number).**