

## 1. How many Protons are in the following elements?

A. Carbon                  B. Hydrogen                  C. Oxygen                  D. Phosphorus                  E. Calcium

## 2. Draw the Atomic Structures. Label the number of Protons, Neutrons and draw the Electrons in their orbits

A. Silicon    B. Potassium

C. Sulfur    D. Beryllium

E. Argon    F. Helium

## 3. Indicate whether the following elements will **GAIN** or **LOSE** electrons to get a full outer shell, and **how many** electrons they will need to **GAIN** or **LOSE**.

Example:                  Chlorine has 7 outer shell electrons, so it will GAIN 1 electron to get a full outer level

A. Lithium    C. Calcium    E. Boron

B. Bromine    D. Oxygen    F. Argon

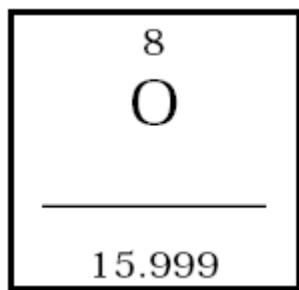
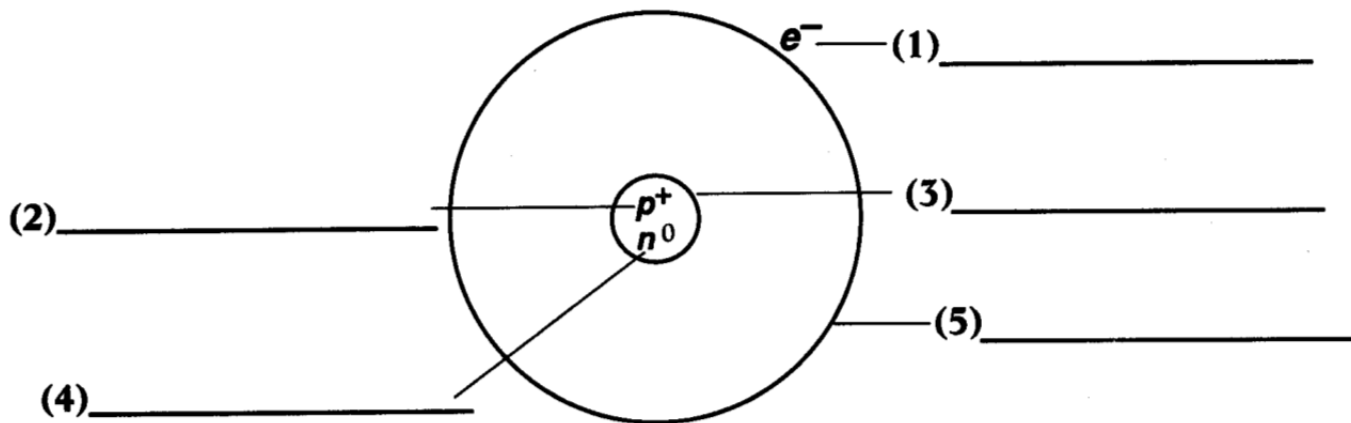
## 4. What will the charge be of the following element when they **LOSE** or **GAIN** electrons to become more stable?

A. Aluminum    B. Phosphorus    C. Sulfur

D. Iodine    E. Fluorine    F. Neon

Label the parts of the atom. Use these choices:

energy level    electron    neutron    proton    nucleus



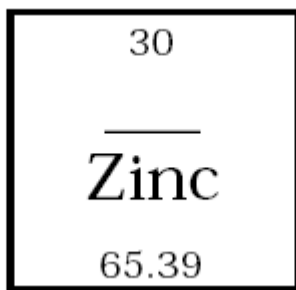
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Atomic Mass =

# of Protons =

# of Neutrons =

# of Electrons =



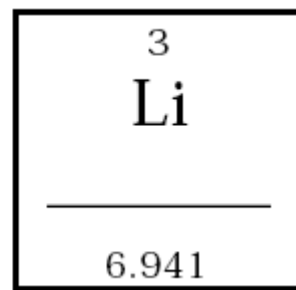
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