Atoms and Ions Practice

1. Identify each part of an atom, its charge, and its location in the atom.

Particle	Charge	Location		

- 2. Why does an atom have no charge?
- 3. What is an ion?
- 4. What are valence electrons?
- 5. What is an anion? How does an anion form?
- 6. What is a cation? How does a cation form?
- 7. Beryllium has an atomic number of 4.
 - (a) How many valence electrons does beryllium have?
 - (b) Draw an electron dot diagram for beryllium.

(c) What is the charge of a beryllium ion?

9. Complete the following table.

Symbol	Name	Atomic number	# of valence electrons	Lose or gain electrons	Charge	Ionic symbol
Ν	Nitrogen	7	5	gain	3-	N ³⁻
C						
		11				
He						
	Sulfur					
		13				
К						
		56				
		18				
Li						
	Oxygen					
В						
Mg						
	Fluorine					
Р						