Periodic Table and Simple Ionic Compounds

1. Complete the following Table:

Symbol	atomic no.	mass no.	no. of protons	no. of neutrons	no. of electrons	net charge
$^{34}_{16}Se^{2-}$						
	23	51			20	
			20	20		2+

- 2. Would you expect each of the following atoms to gain or lose electrons when forming ions? What ion is the most likely in each case?
 - a. K
 - b. F
 - c. Ca
- 3. Fill in the following table:

Name	Symbol	Group	Period	Metal, nonmetal or metalloid?	transition metal or main group?
sodium					
	Fe				
	О				

- 4. Give the formulas for the ionic compounds made of the following ions:
- a. Sc^{3+} and Br^{-}
- b. K^+ and O^{2-}
- c. Ca^{2+} and I^-
- d. Cr^{3+} and S^{2-}
- e. Rb⁺ and F⁻
- f. magnesium (Mg) and oxygen (O) ions
- g. potassium (K) and nitrogen (N) ions
- h. strontium (Sr) and fluorine (F) ions
- i. aluminum (Al) and sulfur (S) ions