Review - Section 1B

neutral atom.	ese elements, identify the nun	·	•
a. carbon: 6 proto	ns electrons	•	ns electrons
b. aluminum:	protons 13 electrons	d. chlorine:	protons 17 electrons
positive ion or a no a. sulfur: 16 proto b. iron: 26 protons c. silver: 47 proto d. iodine: 53 proto	ns 18 electrons, s 24 electrons, ns 47 electrons, ons 54 electrons,		atoms is electrically neutral, o
3) Complete the to	able located below for each el	ectrically neutral atom.	
Element Symbol	Number of Protons	Number of Neutrons	Number of electrons
	6	6	6
Ca		21	
		117	78
	ident says that a lead atom m tudent's explanation?	ust have gained two proton	s to make the ion. How would
a. hydrogen with 1 b. sodium with 11 p c. chlorine with 17	ool and show the electrical cho proton and 1 electron protons and 10 electrons protons and 18 electrons 3 protons and 10 electrons _		ng atoms or ions:
6. Complete the to	able below:		
Atom/Ion	Number of protons	Number of neutrons	Number of electrons
$^{75}_{33}As^{-3}$			
75 33As			
33AS			
⁷⁵ ₃₃ As ⁺⁵			

7) Make a table showii	ng the location, charge and r	mass of each of the three subatomic particles.	
8) Give another term Row:	for a row and 2 other terms	s for a column from the periodic table. Column:	
9) Give the names and	l symbols of two elements ir	n the alkali metal family (Group 1).	
10) Where is the noble located (Group 17)?	e gas (Group 18) family locat	ted on the periodic table? Where is the halogen fam	ily
11) The melting points melting point of seleni		(Te) are 115 °C and 450 °C, respectively. Estimate tl	he
•	on the following elements v _ b. calcium c.	when they form a charge. . chlorine d. fluorine	
13) Write the name ar	d formula for the ionic com	pound that can be formed from these cations and	
Elements/Groups	Chemical Formula	Chemical Name	
K and I			
Ca and S			
Fe⁺³ and Br			
Ba and OH			
NH4 and PO4			
Al and O			
a. Calcium metal with b	actions is more likely to occ parium chloride solution. alcium chloride solution.	cur? Why? (Refer to your metal activity series table	.)
15) Why would it be a metal activity series t	•	of lead (II) nitrate with an iron spoon? (Refer to yo	ur
16) Circle the correct a. Atomic radius goes (up down neither)		ou move across the periodic table from left to right e.	and

- b. Ionization energy goes (up down neither) as you move across the periodic table from left to right and (up down neither) as you move down the table.
- c. Electronegativity goes (up down neither) as you move across the periodic table from left to right and (up down neither) as you move down the table.
- 17) Find the following elements on the periodic table: Rubidium, Iodine, Silver, Chlorine, Sodium. Using those 5 elements, fill in the table below:

	Highest	Lowest	
Atomic Radius (Size)			
Ionization Energy			
Electronegativity			