

Name _____ Date: _____

In the squares below, draw diagrams (as in the sodium example) of atoms of the first 18 elements. Answer questions 1-4. Use your Periodic Table to obtain the necessary information.

Group IA	IIA	IIIA	IVA	VA	VIA	VIIA	VIIIA
1	4	5	6	7	8	9	2
3	12	13	14	15	16	17	18

Questions:

1. What is the relationship between the group number and the number of valence electrons?

2. What is the relationship between the period number and the number of shells in which electrons are accommodated?

3. What is the relationship between the maximum number of electrons in each shell and the number of atoms in each period of the periodic table?

4. According to the above abbreviated periodic table, how many electrons can be accommodated before a new shell is started in each of the first three shells?
First shell _____ Second shell _____ Third shell _____