Name: _____ Date: _____

CHEMISTRY
Ions and Atoms

Part 1: Valence electrons. How many valence electrons does each atom of the given element have in the **ground state**? Type only the number into the box.
Values are 1 to 8.

1.	C		11.	O	
2.	N		12.	Sr	
3.	Br		13.	Mg	
4.	Ne		14.	Kr	
5.	He		15.	Br	
6.	B		16.	N	
7.	Be		17.	Cl	
8.	K		18.	Al	
9.	As		19.	Ge	
10.	Se		20.	Sn	

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Part 2: Charges. The atom becomes a monoatomic ion during an ionic chemical reaction. What is the charge on that ion? Type the charges into the box. Use the examples below.

1+ 2+ 3+ 4+ 1- 2- 3- 4-

1.	F		11.	S	
2.	O		12.	As	
3.	K		13.	Li	
4.	Ba		14.	H	
5.	Al		15.	Ca	
6.	Mg		16.	Cs	
7.	Br		17.	Se	
8.	Na		18.	Cl	
9.	I		19.	Fr	
10.	Rb		20.	Sr	

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