

Name: _____ Per: _____

Ions Worksheet

Element	# Valence Electrons	# Electrons to gain	# Electrons to lose	Ion Formed/ name
Li	1	None	1	Li ⁺¹ / cation
N	5	3	None	N ⁻³ / anion
O				
Ca				
Br				
S				
Cl				
K				
Mg				
Be				

Questions:

- If Li loses an electron to another atom, why is it written Li⁺¹ (with a +1)?
- If N gains 3 electrons from other atoms, why is it written N⁻³ (with a -3)?
- a. What do you think happens to atomic radius size of a cation & why? b. an anion & why?

Name: _____ Per: _____

Ions Worksheet

Element	# Valence Electrons	# Electrons to gain	# Electrons to lose	Ion Formed/ name
Li	1	None	1	Li ⁺¹ / cation
N	5	3	None	N ⁻³ / anion
O				
Ca				
Br				
S				
Cl				
K				
Mg				
Be				

Questions:

- If Li loses an electron to another atom, why does it have a +1 charge?
- If N gains 3 electrons from other atoms, why does it have a -3 charge?
- a. What do you think happens to atomic radius size of a cation & why? b. an anion & why?