

Charges of Ions Worksheet

Name _____

1. What is an *ion*?
2. How does an atom become an *ion*?
3. What is the charge on a *cation*? (circle one) positive or negative
 - a. What type of elements become *cations*? (circle one) metals or nonmetals
4. What is the charge on an *anion*? (circle one) positive or negative
 - a. What type of elements become *anions*? (circle one) metals or nonmetals
5. What does a roman numeral tell you when it is written after an element?
6. Write the symbols and charges for the atoms given below and then identify it as anion/cation and metal/nonmetal...

element	symbol and charge	metal or nonmetal	anion or cation
calcium	Ca ⁺²	metal	cation
bromine	Br ⁻¹	nonmetal	anion
nitrogen			
iron (III)			
tin (II)			
fluorine			
cesium			
iodine			
phosphorus			
copper (I)			
lithium			
aluminum			
sulfur			
manganese(IV)			
chlorine			
oxygen			