Review # 2 Assignment- Unit 2- Compounds

Fill in the blank:

1. Ionic compounds consist of a positive <u>Metal</u> ion and a negative <u>Mon metal</u> ion combined in a proportion such that their charges add up to zero.	
2. An example of an ionic compound: NaCl CaCla.	
3. When the metals in Groups 1A, 2A and 3A lose electrons, they form: Cation	
4. An example of a cation: Na+	
5. Nonmetals tend to gain electrons to form anions, so the charge of a non-	
metallic ion is <u>negative</u>	
6. An example of an anion: CI - OZ-	
7. Metals that can have more than one charge are called: <u>Multivalent</u> .	
 8. Ions that are composed of more than one atom are called: polyatomic. 9. Examples of a polyatomic ion: NO₃ - CO₃ 2 - 	
10. A binary compound is composed of two elements and can be either ionic or molecular.	
11. To name any binary ionic compound, place the <u>Cation</u> name first, followed by the <u>Canion</u> name.	
12. To write the formula of a binary ionic compound, write the symbol of the <u>cation</u>	
and then the anion. Add whatever <u>Subscripts</u> are needed to balance the charges.	
13. For compounds with polyatomic ions, write the symbol of the <u>cation</u> followed by	
the formula for the polyatomic ion and balance the charges.	
14. When naming molecular compounds, use the <u>prefix</u> in the name to tell you	
the <u>Subscript</u> of each element in the formula. Then write the correct	
symbols for the two elements with the appropriate subscripts.	
15. Give an example of an ionic hydrate: No 2 CO 3 · 10 H2O	
16. For naming acids:	
a) When the name of the anion ends in ide, the acid name begins with the prefix	
hydro . The stem of the anion has the suffix followed by acid.	
Ex H₂S (hydrosulfuric acid)	
b) When the anion ends in\+e, the acid name is the stem of the anion with the	
suffix OUS followed by the word acid. H ₂ SO ₃ (sulfurous acid)	
c) When the anion name ends in, the acid name is the stem of the anion	
with the suffix followed by the word acid. H ₂ SO ₄ (sulfuric acid)	
17. Bases are named the same way as otherbinary ionic_Compoundthe name of the	
Questions:	
Name the following:	
a) Nal Sodium rodide	
b) K ₂ SO ₄ potassium sulfate	
c) CuO copper (II) oxide	
d) HNO3 nitric acid	
e) NaOH Sodium hydroxide	
f) N2O3 dinitropen trioxide	
g) SO3 Sulfur trioxide	
g) 303 Statement Montage	
Write the formula for the following:	
a) potassium sulfide K_2S	
b) lithium phosphate Li 3 PO4	
c) tin (II) chlorideSoCla	
d) phosphorous pentachloride PC15	
e) lithium hydroxide LOH	
f) hydrochloric acid HCl	
g) nitrous acid HNO 2	