Practice Worksheet Ionic Compounds: Formulas and Names

Name _____ Period _____

Attached to these problems is a summary of how to name and write formulas of compounds. If you aren't sure how to work a problem, consult the indicated topic.

1. Name the following ions. **(See Topic B for more help).**

Ion	Name		Ion	Name
K^+			O^{2-}	
Fe^{2+}			S^{2-}	
Ca^{2+}			H^-	
Co^{3+}			F^-	
Zn^{2+}			C^{4-}	
Mg^{2+}			N^{3-}	
Mn^{4+}			I^-	

2. Predict the formula of the ionic compound that would form between the ions given. (The first one has been done for you). **(See Topic A for more help).**

Cation	Anion	Ionic Compound Formula
Ba^{2+}	O^{2-}	BaO
Mg^{2+}	Cl^-	
Rb^+	S^{2-}	
Al^{3+}	Br^-	
Na^+	C^{4-}	
Ca^{2+}	N^{3-}	
Sr^{2+}	NO_3^-	
NH_4^+	Se^{2-}	
K^+	SO_4^{2-}	

3. Knowing the charge on the anion, deduce the charge on the cation in the following.

(See Topic C and D for more help).

Formula	Cation	Anion	Name
$CuBr_2$	Cu^{2+}	Br^-	copper (II) bromide
Na_2SO_4	Na^+	SO_4^{2-}	sodium sulfate
$Fe(OH)_3$			
Ag_3PO_4			
$MnCO_3$			
$Cd(NO_3)_2$			
$NiPO_3$			
PbS			
$Al_2(SO_3)_3$			
CoO			
$Fe(MnO_4)_2$			