Name:_____

Ionic Compound Formula Writing Worksheet

Write chemical formulas for the compounds in each box. The names are found by finding the intersection between the cations and anions. Example: The first box is the intersection between the "calcium" cation and the "bromide" anion, so you should write "$CaBr_2$", as shown. Cesium Phosphide: Cs_3P

	calcium	cobalt (II)	chromium (III)	aluminum	cesium	tin (IV)
bromide	$CaBr_2$	$CoBr_2$	$CrBr_3$	$AlBr_3$	$CsBr$	$SnBr_4$
oxalate	CaC_2O_4	CoC_2O_4	$Cr_2(C_2O_4)_3$	$Al_2(C_2O_4)_3$	$Cs_2C_2O_4$	$Sn(C_2O_4)_2$
chlorite	$Ca(ClO_2)_2$	$Co(ClO_2)_2$	$CrCl_3$	$AlCl_3$	$CsClO_2$	$Sn(ClO_2)_4$
phosphide	Ca_3P_2	Co_3P_2	CrP	AlP	~~$Al(CO_3)_3$~~	Sn_3P_4
sulfide	CaS	CoP	Cr_2S_3	Al_2S_3	Cs_2S	SnS_2
bromate	$Ca(BrO_3)_2$	$Co(BrO_3)_2$	$Cr(BrO_3)_3$	$Al(BrO_3)_3$	$CsBrO_3$	$Sn(BrO_3)_4$

Write the formulas for the following compounds:

1) copper (II) chloride $CuCl_2$
2) lithium acetate $LiCH_3COO$
3) vanadium (III) selenide V_2Se_3
4) manganese (IV) nitride Mn_3N_4
5) beryllium oxide BeO
6) sodium sulfate Na_2SO_4
7) aluminum arsenide $AlAs$
8) potassium permanganate $KMnO_4$
9) chromium (VI) cyanide $Cr(CN)_6$
10) tin (II) sulfite $SnSO_3$
11) vanadium (V) fluoride VF_5
12) ammonium nitrate ~~$(NH_4)_3N$~~ NH_4NO_3

Names & Formulas for Ionic Compounds

1) Na_2CO_3 Sodium Carbonate
2) NaOH Sodium Hydroxide
3) $MgBr_2$ Magnesium Bromide
4) KCl Potassium Chloride
5) $FeCl_2$ Iron (II) Chloride
6) $FeCl_3$ Iron (III) Chloride
7) $Zn(OH)_2$ Zinc Hydroxide
* 8) Be_4SO_4 Beryllium Sulfate (Typo)
9) CrF_2 Chromium (II) Fluoride
10) Al_2S_3 Aluminum Sulfide
11) PbO Lead (II) Oxide
12) Li_3PO_4 Lithium Phosphate
13) TiI_4 Titanium (IV) Iodide
14) Co_3N_2 Cobalt (II) Nitride
15) Mg_3P_2 Magnesium Phosphide
16) $Ga(NO_2)_3$ Gallium Nitrite
17) Ag_2SO_3 Silver Sulfite
18) NH_4OH Ammonium Hydroxide
19) $Al(CN)_3$ Aluminum Cyanide
20) $Be(CH_3COO)_2$ Beryllium Acetate

21) sodium phosphide Na_3P
22) magnesium nitrate $Mg(NO_3)_2$
23) lead (II) sulfite $PbSO_3$
24) calcium phosphate $Ca_3(PO_4)_2$
25) ammonium sulfate $(NH_4)_2SO_4$
26) silver cyanide $AgCN$
27) aluminum sulfide Al_2S_3
28) beryllium chloride $BeCl_2$
29) copper (I) arsenide Cu_3As
30) iron (III) oxide Fe_2O_3
31) gallium nitride GaN
32) iron (II) bromide $FeBr_2$
33) vanadium (V) phosphate $V_3(PO_4)_5$
34) calcium oxide CaO
35) magnesium acetate $Mg(CH_3COO)_2$
36) aluminum sulfate $Al_2(SO_4)_3$
37) copper (I) carbonate Cu_2CO_3
38) barium oxide BaO
39) ammonium sulfite $(NH_4)_2SO_3$
40) silver bromide $AgBr$