Chemical 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 "zinc" cation and the "chloride" anion, so you should write "$ZnCl_2$", as shown.

	zinc	*iron (II)*	*iron (III)*	*gallium*	*silver*	*lead (IV)*
chloride	$ZnCl_2$					
acetate						
nitrate						
oxide						
nitride						
sulfate						

Write the formulas for the following compounds:

1) copper (II) chloride _____

2) lithium acetate _____

3) vanadium (III) selenide _____

4) manganese (IV) nitride _____

5) beryllium oxide _____

6) sodium sulfate _____

7) aluminum arsenide _____

8) potassium permanganate _____

9) chromium (VI) cyanide _____

10) tin (II) sulfite _____

11) vanadium (V) fluoride _____

12) ammonium nitrate _____

Chemical Formula Writing Worksheet Solutions

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 "zinc" cation and the "chloride" anion, so you should write "$ZnCl_2$", as shown.

	zinc	*iron (II)*	*iron (III)*	*gallium*	*silver*	*lead (IV)*
chloride	$ZnCl_2$	$FeCl_2$	$FeCl_3$	$GaCl_3$	$AgCl$	$PbCl_4$
acetate	$Zn(C_2H_3O_2)_2$	$Fe(C_2H_3O_2)_2$	$Fe(C_2H_3O_2)_3$	$Ga(C_2H_3O_2)_3$	$Ag\ C_2H_3O_2$	$Pb(C_2H_3O_2)_4$
nitrate	$Zn(NO_3)_2$	$Fe(NO_3)_2$	$Fe(NO_3)_3$	$Ga(NO_3)_3$	$AgNO_3$	$Pb(NO_3)_4$
oxide	ZnO	FeO	Fe_2O_3	Ga_2O_3	Ag_2O	PbO_2
nitride	Zn_3N_2	Fe_3N_2	FeN	GaN	Ag_3N	Pb_3N_4
sulfate	$ZnSO_4$	$FeSO_4$	$Fe_2(SO_4)_3$	$Ga_2(SO_4)_3$	Ag_2SO_4	$Pb(SO_4)_2$

Write the formulas for the following compounds:

1) copper (II) chloride $CuCl_2$

2) lithium acetate $LiC_2H_3O_2$

3) vanadium (III) selenide VSe

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_4NO_3