

NAMING COMPOUNDS USING ROMAN NUMERALS

1. Write the formula for the following binary compounds:

copper (I) chloride $\text{Cu}^+ \text{Cl}^- = \text{CuCl}$	tin (IV) oxide $\text{Sn}^{4+} \text{O}^{2-} = \text{SnO}_2$ (reduced)
iron (II) nitride $\text{Fe}^{2+} \text{N}^{3-} = \text{Fe}_3\text{N}_2$	copper (II) fluoride $\text{Cu}^{2+} \text{F}^- = \text{CuF}_2$
lead (II) oxide $\text{Pb}^{2+} \text{O}^{2-} = \text{PbO}$ (reduced)	chromium (II) phosphide $\text{Cr}^{2+} \text{P}^{3-} = \text{Cr}_3\text{P}_2$
mercury (II) fluoride $\text{Hg}^{2+} \text{F}^- = \text{HgF}_2$	mercury (I) carbide $\text{Hg}_2^+ \text{C}^{4-} = \text{Hg}_4\text{C}$
magnesium bromide $\text{Mg}^{2+} \text{Br}^- = \text{MgBr}_2$	gold (III) chloride $\text{Au}^{3+} \text{Cl}^- = \text{AuCl}_3$
manganese (IV) sulfide $\text{Mn}^{4+} \text{S}^{2-} = \text{MnS}_2$ (reduced)	cobalt (II) bromide $\text{Co}^{2+} \text{Br}^- = \text{CoBr}_2$
manganese (II) carbide $\text{Mn}^{2+} \text{C}^{4-} = \text{Mn}_2\text{C}$ (reduced)	phosphorus (V) nitride $\text{P}^{5+} \text{N}^{3-} = \text{P}_3\text{N}_5$
gold (I) iodide $\text{Au}^+ \text{I}^- = \text{AuI}$	nickel (III) phosphide $\text{Ni}^{3+} \text{P}^{3-} = \text{Ni}_3\text{P}$ (reduced)
iron (II) bromide $\text{Fe}^{2+} \text{Br}^- = \text{FeBr}_2$	copper (II) sulfide $\text{Cu}^{2+} \text{S}^{2-} = \text{CuS}$ (reduced)
aluminum sulfide $\text{Al}^{3+} \text{S}^{2-} = \text{Al}_2\text{S}_3$	zinc iodide $\text{Zn}^{2+} \text{I}^- = \text{ZnI}_2$

2. Name the following binary compounds:

Cu_2O Copper (I) oxide	P_2O_5 phosphorus (V) oxide
Hg_4C mercury (I) carbide	Sn_3N_2 Tin (II) nitride
AuBr_3 Gold (III) bromide	CoO Cobalt (II) oxide
Mn_3N_4 manganese (IV) nitride	MnS_2 manganese (IV) sulfide
Ag_3N Silver nitride (no roman numeral)	Pb_2C Lead (II) carbide
FeF_2 Iron (II) fluoride	Sr_3P_2 Strontium phosphide
NiCl_2 Nickel (II) chloride	CuF Copper (I) fluoride
HgO mercury (II) oxide	NiBr_3 Nickel (III) bromide
CoBr_3 Cobalt (III) bromide	AgI Silver iodide
CrS Chromium (II) sulfide	FeN Iron (III) nitride