

a) $\text{Au}(\text{Br})_2$ – gold (II) bromide

AuBr_2 – no (), Br is not a polyatomic

b) CdCl_2 – cadmium (II) chloride

cadmium chloride – Cd is NOT a VOS

c) Na_2O_2 – sodium peroxide

correct

d) SO_4 – sulfate

**SO_4^{2-} = sulfate OR SO_4 = sulfur tetroxide
molecular compounds do NOT have charges**

e) Zn_3P_2 – trizinc diphosphide

**zinc phosphide – ionic compound
so no prefixes**

f) BeHPO_4 – beryllium hydrogen phosphate

correct

g) HCl – hydrochloric acid

**$\text{HCl}_{(\text{aq})}$ = hydrochloric acid OR
 HCl = hydrogen monochloride**

h) HgNO_3 – mercury (I) nitrate

$\text{Hg}_2(\text{NO}_3)_2$ – mercury (I) MUST be Hg_2

i) Ni_2SO_3 – nickel sulfite

nickel (I) sulfite – nickel is a VOS

j) TiOH_3 – titanium (III) hydroxide

**$\text{Ti}(\text{OH})_3$ – hydroxide is a polyatomic and there
are more than one so need ()**

k) sulfuric acid – $\text{H}_2\text{SO}_{3(\text{aq})}$

**sulfuric acid = $\text{H}_2\text{SO}_{4(\text{aq})}$ OR
sulfurous acid = $\text{H}_2\text{SO}_{3(\text{aq})}$**

l) CoCO_3 – copper (II) carbonate

**CuCO_3 = copper (II) carbonate OR
 CoCO_3 = cobalt (II) carbonate**