Chemical Formula Writing Worksheet

Determine the chemical formula for each cation and anion combination. Write your answers in each box.

Set 1 (The combining power of silver is 1 and zinc is 2)

Anions - / Cations +	chloride	oxide	iodide	hydride	sulfide	nitride
Sodium						
Potassium						
Magnesium						
Calcium						
Copper(II)						
Iron(II)						
Iron(III)						
Silver						
Zinc						
Aluminum						

Set 2

Anions - / Cations +	bromide	oxide	fluoride	astatide	selenide	phosphide
Lithium						
Barium						
Cesium						
Strontium						
Copper(I)						
Copper(II)						
Lead(II)						
Lead(IV)						
Gallium						
Nickel(II)						

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Determine the chemical formula for each cation and anion combination. Write your answers in each box.

Brackets are only needed when the polyatomic group is greater than 1. Eg. Strontium phosphate, $Sr_3(PO_4)_2$

Set 3 (The combining power of silver is 1 and zinc is 2. The formula for the ammonium ion is NH_4^+)

Anions - / Cations +	nitrate NO_3^-	sulfate SO_4^{2-}	hydroxide OH^-	carbonate CO_3^{2-}	phosphate PO_4^{3-}	hydrogen carbonate HCO_3^-
Sodium						
Potassium						
Magnesium						
Barium						
Iron(II)						
Iron(III)						
Silver						
Zinc						
Aluminum						
Ammonium						

Set 4 (The combining power of silver is 1 and zinc is 2. The formula for the ammonium ion is NH_4^+)

Anions - / Cations +	nitrite NO_2^-	chromate CrO_4^{2-}	sulfite, SO_3^{2-}	dichromate $Cr_2O_7^{2-}$	chlorate ClO_3^-	acetate* CH_3COO^-
Lithium						
Mercury(I)						
Tin(II)						
Silver						
Iron(II)						
Iron(III)						
Barium						
Zinc						
Aluminum						
Ammonium						

* The acetate group, CH_3COO^- is written first as this correctly shows the position of the ionic bond. Eg. $CH_3COO^-Na^+$