

1. Write the correct formula for the following compounds:

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| a. aluminum nitrate | $\text{Al}(\text{NO}_3)_3$ |
| b. manganese(IV) hypochlorite | $\text{Mn}(\text{ClO})_4$ |
| c. periodic acid | $\text{HIO}_4 (\text{aq})$ |
| d. titanium(IV) sulfide | TiS_2 |
| e. tetrasulfur pentoxide | S_4O_5 |
| f. strontium hydroxide octahydrate | $\text{Sr}(\text{OH})_2 \cdot 8\text{H}_2\text{O}$ |
| g. chloric acid | $\text{HClO}_3 (\text{aq})$ |
| h. sodium dihydrogen phosphate | NaH_2PO_4 |
| i. hypochlorous acid | $\text{HClO} (\text{aq})$ |
| j. sodium phosphide | Na_3P |
| k. zinc phosphite | $\text{Zn}_3(\text{PO}_3)_2$ |
| l. carbonic acid | $\text{H}_2\text{CO}_3 (\text{aq})$ |
| m. nickel(II) nitrate decahydrate | $\text{Ni}(\text{NO}_3)_2 \cdot 10\text{H}_2\text{O}$ |
| n. magnesium chloride hexahydrate | $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$ |

2. Write the correct name for the following compounds:

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|--|--------------------------------|
| a. $\text{HBrO}_4(\text{aq})$ | perbromic acid |
| b. $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$ | zinc sulfate heptahydrate |
| c. $\text{H}_2\text{Cr}_2\text{O}_7(\text{aq})$ | dichromic acid |
| d. Fe_2O_3 | iron (III) oxide |
| e. IBr | iodine monobromide |
| f. $\text{Pb}(\text{SO}_3)_2$ | lead (IV) sulfite |
| g. VO | vanadium (II) oxide |
| h. $\text{Fe}(\text{C}_2\text{H}_3\text{O}_2)_2 \cdot 4\text{H}_2\text{O}$ | iron (II) acetate tetrahydrate |
| i. $\text{H}_3\text{PO}_3(\text{aq})$ | phosphorous acid |
| j. $\text{Cr}(\text{CN})_3$ | chromium (III) cyanide |
| k. $\text{Ti}(\text{ClO}_2)_4$ | titanium (IV) chlorite |
| l. Cu_3P | copper (I) phosphide |
| m. N_2O_5 | dinitrogen pentoxide |
| n. Ni_3N_2 | nickel (II) nitride |