

Mixed Chemical Naming Worksheet

Name these compounds. They may be either ionic or covalent – indicate which are ionic and which are covalent compounds

- 1) LiOH Lithium hydroxide is an ionic compound
- 2) PBr_3 Phosphorus tribromide is a covalent compound
- 3) Na_2SO_4 Sodium sulfate is an ionic compound
- 4) $(\text{NH}_4)_2\text{S}$ Ammonium sulfide is an ionic compound
- 5) CaCO_3 Calcium carbonate is an ionic compound
- 6) CF_4 Carbon tetrafluoride is a covalent compound
- 7) NaNO_3 Sodium Nitrate is a compound
- 8) P_2S_3 Diphosphorus trisulfide is a covalent compound
- 9) $\text{Al}(\text{NO}_3)_3$ Aluminium nitrate is an ionic compound
- 10) $\text{Mg}(\text{OH})_2$ Magnesium hydroxide is an ionic compound

Write the formulas for the following compounds. Remember, they may be either ionic or covalent compounds, so make sure you use the right method!

- 11) potassium oxide _____ K_2O _____
- 12) phosphorus tribromide _____ PBr_3 _____
- 13) calcium hydroxide _____ $\text{Ca}(\text{OH})_2$ _____
- 14) dinitrogen sulfide _____ N_2S _____
- 15) carbon monoxide _____ CO _____
- 16) diboron tetrahydride _____ B_2H_4 _____
- 17) phosphorus pentabromide _____ PBr_5 _____
- 18) sulfur dichloride _____ SCl_2 _____
- 19) sodium carbonate _____ Na_2CO_3 _____
- 20) aluminum acetate _____ $\text{Al}(\text{CH}_3\text{COO})_3$ _____