

Ionic/Covalent Compound Naming Solutions

For each of the following questions, determine whether the compound is ionic or covalent and name it appropriately.

- 1) Na_2CO_3 sodium carbonate
- 2) P_2O_5 diphosphorus pentoxide
- 3) NH_3 ammonia
- 4) FeSO_4 iron (II) sulfate
- 5) SiO_2 silicon dioxide
- 6) GaCl_3 gallium chloride
- 7) CoBr_2 cobalt (II) bromide
- 8) B_2H_4 diboron tetrahydride
- 9) CO carbon monoxide
- 10) P_4 phosphorus

For each of the following questions, determine whether the compound is ionic or covalent and write the appropriate formula for it.

- 11) dinitrogen trioxide N_2O_3
- 12) nitrogen N_2
- 13) methane CH_4
- 14) lithium acetate $\text{LiC}_2\text{H}_3\text{O}_2$
- 15) phosphorus trifluoride PF_3
- 16) vanadium (V) oxide V_2O_5
- 17) aluminum hydroxide $\text{Al}(\text{OH})_3$
- 18) zinc sulfide ZnS
- 19) silicon tetrafluoride SiF_4
- 20) silver phosphate Ag_3PO_4