Covalent Compounds Worksheet

1) Based on the properties of the following materials, determine whether they are made of primarily ionic compounds or covalent compounds:

   a) telephone receiver: _____

   b) concrete: _____

   c) gasoline: _____

   d) candy corn: _____

2) Name the following covalent compounds:

   a) SiF_4 _____

   b) N_2S_3 _____

   c) HBr _____

   d) Br_2 _____

3) Write the formulas for the following covalent compounds:

   a) diboron hexahydride _____

   b) nitrogen tribromide _____

   c) sulfur hexachloride _____

   d) diphosphorus pentoxide _____

4) Write the empirical formulas for the following compounds:

   a) $C_2H_4O_2$ _____

   b) boron trichloride _____

   c) methane _____

   d) $C_6H_{12}O_6$ _____

5) List three differences between ionic and covalent compounds: