

Ch 7: Distinguishing between Ionic and Covalent Compounds (Gen)

Name: _____

Write the **formula** of the following compounds:

in box: Ionic(I) Covalent(C)

- | | | |
|----------------------------|--------------------------|---------------------------------|
| <input type="checkbox"/> I | 1) Sodium iodide | NaI |
| <input type="checkbox"/> C | 2) Nitrogen trifluoride | NF ₃ |
| <input type="checkbox"/> I | 3) Strontium fluoride | SrF ₂ |
| <input type="checkbox"/> I | 4) Lead (II) sulfide | PbS |
| <input type="checkbox"/> C | 5) Silicon tetrafluoride | SiF ₄ |
| <input type="checkbox"/> C | 6) Iodine pentafluoride | IF ₅ |
| <input type="checkbox"/> I | 7) Silver (I) carbonate | Ag ₂ CO ₃ |
| <input type="checkbox"/> I | 8) Magnesium sulfate | MgSO ₄ |
| <input type="checkbox"/> I | 9) Ammonium chloride | NH ₄ Cl |
| <input type="checkbox"/> I | 10) Beryllium hydroxide | Be(OH) ₂ |
| <input type="checkbox"/> C | 11) Sulfur tetrafluoride | SF ₄ |

Write the **name** of the following compounds:

- | | | |
|----------------------------|---|---|
| <input type="checkbox"/> I | 12) K ₂ CO ₃ | Potassium carbonate |
| <input type="checkbox"/> I | 13) Rb ₂ S | Rubidium sulfide |
| <input type="checkbox"/> I | 14) CaF ₂ | Calcium fluoride |
| <input type="checkbox"/> C | 15) SF ₆ | Sulfur hexafluoride |
| <input type="checkbox"/> C | 16) PCl ₅ | Phosphorus pentachloride |
| <input type="checkbox"/> I | 17) AgCl | Silver I chloride |
| <input type="checkbox"/> I | 18) NaNO ₃ | Sodium nitrate |
| <input type="checkbox"/> I | 19) (NH ₄) ₃ PO ₄ | Ammonium phosphate |
| <input type="checkbox"/> I | 20) AlF ₃ | Aluminum fluoride |
| <input type="checkbox"/> C | 21) NO | Nitrogen monoxide |
| <input type="checkbox"/> I | 22) Ti ₃ P ₂ | Titanium II phosphide |
| Tricky: | | |
| <input type="checkbox"/> I | 23) ZnO | Zinc II oxide (<i>focus on the charge of oxygen in this empirical formula</i>) |
| <input type="checkbox"/> I | 24) Cu ₂ CO ₃ | Copper I carbonate (<i>focus on who the subscript of 3 "belongs to"</i>) |
| <input type="checkbox"/> I | 25) NiSO ₄ | Nickel II sulfate (<i>focus on the charge of sulfate in this empirical formula</i>) |

