Name/Period:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Practice Formulas of Compounds: Working with Subscripts**

**Write the formulas for each of the following substances, listing the elements in the order given.**

|  |  |  |
| --- | --- | --- |
|  | **Substance** | **Formula** |
| **1** | A molecule containing one phosphorus atom and three chlorine atoms. |  |
| **2** | A molecule containing two boron atoms and six hydrogen atoms. |  |
| **3** | A compound containing two iron atoms and three oxygen atoms. |  |
| **4** | A compound containing one zinc atom and two hydrogen atoms.  |  |
| **5** | A compound containing one hydrogen atom, two carbon atoms, three hydrogen atoms, and two oxygen atoms |  |
| **6** | A molecule containing one calcium atom and two chlorine atoms. |  |
| **7** | A compound containing three calcium atoms and two nitrogen atoms. |  |
| **8** | A compound containing one sodium atom and one chlorine atom. |  |

**Write how many of each type of element there are in each formula.**

|  |  |  |
| --- | --- | --- |
|  | **Substance** | **Formula** |
| **1** |  | SiH4 |
| **2** |  | CaCO3 |
| **3** |  | Ca3Al2O6 |
| **4** |  | SiO2 |
| **5** |  | VCl3 |
| **6** |  | HCo(CO)4 |
| **7** |  | Rh2(SO4)3 |
| **8** |  | (NH4)3IrCl6 |
| **9** |  | Hg(ONC)2 |
| **10** |  | H6Cu6(PN3)6 |
| **Bonus** |  | C738H1166N812O203S2Fe Hemoglobin in your blood!  |