Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_

Chemistry Practice

1. Fill in the table **(2.5 pts)**:

|  |  |  |  |
| --- | --- | --- | --- |
| **Element** | **# protons** | **# electrons** | **Charge** |
| Oxygen | 8 | 10 | **-2** |
| Lithium | 3 | **2** | +1 |
| Magneisum | **12** | 10 | +2 |
| Bromine | 35 | 36 | **-1** |
| Aluminum | **13** | 10 | +3 |

1. What is the name of the bond that forms between two charged atoms **(1 pt)**?  
   **Ionic**
2. How many… **(0.5 pt each)**
3. Carbon atoms in 6CO2? **6**
4. Oxygen atoms in 6CO2? **12**
5. Hydrosulfuric acid has the formula H2SO4. How many molecules of hydrosulfuric acid are there in 7H2SO4? **7**
6. How many hydrogen atoms in 7H2SO4? **14**
7. How many sulfur atoms in 7H2SO4? **7**
8. How many oxygen atoms in 7H2SO4? **28**
9. What is the relationship between an element and an atom? **(1 pt)**  
   **An atom is the smallest unit of matter that retains the characteristic properties of an element.**
10. Is water a compound or a molecule? **Explain your answer. (2 pts)**  
    **Water is both a compound and a molecule. It is a molecule because it is formed by atoms that are chemically bonded together, and it is a compound because it contains more than one element.**