

**General Chemistry**  
**Mr. MacGillivray**  
**Quiz #18:**  
**Molar Calculations**

Give the formula mass or molecular mass for the following compounds.

1.  $\text{CoCl}_3$  \_\_\_\_\_ amu

2.  $\text{Na}_2\text{SO}_4$  \_\_\_\_\_ amu

Give the molar mass for the following compounds.

3.  $\text{H}_2\text{O}$  \_\_\_\_\_ g/mol

4.  $\text{C}_6\text{H}_{12}\text{O}_6$  \_\_\_\_\_ g/mol

Perform the following conversions. Show all work.

5. 5.00 g  $\text{H}_2\text{O}$  = \_\_\_\_\_ mol  $\text{H}_2\text{O}$

6. 5.00 mol  $\text{H}_2\text{O}$  = \_\_\_\_\_ g  $\text{H}_2\text{O}$

7. 7.00 g  $\text{CO}_2$  = \_\_\_\_\_ molecules  $\text{CO}_2$

8. 7.00 molecules  $\text{CO}_2$  = \_\_\_\_\_ g  $\text{CO}_2$