

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

## MASS TO MOLE STOICHIOMETRY

Calculate the molar mass of each of the following.

1. NaOH = \_\_\_\_\_  $\text{g mol}^{-1}$

2. NH<sub>3</sub> = \_\_\_\_\_  $\text{g mol}^{-1}$

3. Al<sub>2</sub>O<sub>3</sub> = \_\_\_\_\_  $\text{g mol}^{-1}$

Convert the following moles to masses.  
Type in the numerical answers to 2 decimal places.

1. 5 mol of C<sub>6</sub>H<sub>12</sub>O<sub>6</sub> = \_\_\_\_\_ g

2. NH<sub>3</sub> = \_\_\_\_\_ g

3. 2.5 mol of CaCO<sub>3</sub> = \_\_\_\_\_ g

Convert the following masses to moles.  
Type in the numerical answers to 2 decimal places.

1. 12 grams of HCl = \_\_\_\_\_ moles of HCl

2. 5 grams of C<sub>6</sub>H<sub>12</sub>O<sub>6</sub> = \_\_\_\_\_ moles of C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

3. 35 grams of CaCO<sub>3</sub> = \_\_\_\_\_ moles of CaCO<sub>3</sub>