

## Mass-Mole Conversion Worksheet

Name \_\_\_\_\_

Period \_\_\_\_\_

Calculate the molecular mass for each of the following molecules:

1. KOH                      2. N<sub>2</sub>O<sub>2</sub>                      3. Cu<sub>2</sub>SO<sub>4</sub>                      4. Sr<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub>

Using Factor-Labeling, convert each of the following from grams to moles:

5. 15.0 g C<sub>2</sub>H<sub>6</sub>    6. 140.0 g NaOH

7. 27.2 g H<sub>2</sub>O    8. 45.7 g CaCO<sub>3</sub>

Using Factor-Labeling, convert moles to grams in each of the following:

9. 1.5 moles NH<sub>3</sub>    10. 0.65 moles H<sub>2</sub>SO<sub>4</sub>

Using Factor-Labeling, convert the following to moles:

11.  $3.01 \times 10^{23}$  atoms Na    12.  $2.41 \times 10^{24}$  molecules CO<sub>2</sub>

Using Factor-Labeling, convert the following to atoms or molecules:

13. 2.56 moles Ca    14. 0.75 moles AlCl<sub>3</sub>