

# Honors Chemistry Worksheet 3

## Stoichiometry Practice Problems

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

Instructions: Balance the following chemical equations and then determine the missing information for each of the conditions given. The four questions related to each equation are independent of one another. Answers for a particular numbered problem should be in the same units as the information given (i.e. grams to grams, moles to moles, particles to particles).

$\text{Al}_2\text{O}_{3(s)} \rightarrow \text{Al}_{(s)} + \text{O}_{2(g)}$  Work Area

1. 5mol \_\_\_\_\_
2. \_\_\_\_\_ 2.5mol \_\_\_\_\_
3. 25g \_\_\_\_\_
4. \_\_\_\_\_  $2.41 \times 10^{24}$  molecules

$\text{CuO}_{(s)} + \text{H}_2\text{SO}_{4(aq)} \rightarrow \text{CuSO}_{4(aq)} + \text{H}_2\text{O}_{(l)}$

1. \_\_\_\_\_ .75mol \_\_\_\_\_
2. 50g \_\_\_\_\_
3. \_\_\_\_\_ 3.5mol \_\_\_\_\_
4. \_\_\_\_\_  $1.204 \times 10^{23}$  molecules

$\text{K}_{(s)} + \text{N}_{2(g)} \rightarrow \text{K}_3\text{N}_{(s)}$  Work Area

1.  $1.51 \times 10^{23}$  atoms \_\_\_\_\_
2. \_\_\_\_\_ 1.25mol \_\_\_\_\_
3. \_\_\_\_\_ 25 grams

# Honors Chemistry Worksheet 3 Stoichiometry Practice Problems

**WJ Hussar**



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