

## Chemistry Unit 8 Worksheet 4

### Samples of Every Kind of Problem

On a separate sheet of paper, write a complete solution to each of the problems below. Follow the procedure outlined in class. Be sure to circle your final answer.

1. Calculate the number of moles of potassium chlorate,  $\text{KClO}_3$  (s), that must decompose to produce potassium chloride,  $\text{KCl}$  (s), and 1.8 moles of oxygen gas.

|           |                                                           |      |      |                                     |
|-----------|-----------------------------------------------------------|------|------|-------------------------------------|
| Equation: | $2 \text{KClO}_3 \rightarrow 2 \text{KCl} + 3 \text{O}_2$ |      |      | 1.2 moles<br>$\text{KClO}_3$ needed |
| Before:   | 1.2                                                       | 0    | 0    |                                     |
| Change:   | -1.2                                                      | +1.2 | +1.8 |                                     |
| After:    | 0                                                         | 1.2  | 1.8  |                                     |

2. In a single displacement reaction, magnesium metal reacts with hydrochloric acid to produce magnesium chloride and hydrogen gas. How many moles of hydrochloric acid are needed to completely react with 2.43 g of magnesium?

|           |                                                                   |                                    |
|-----------|-------------------------------------------------------------------|------------------------------------|
| Equation: | $\text{Mg} + 2 \text{HCl} \rightarrow \text{MgCl}_2 + \text{H}_2$ | 0.200 moles<br>$\text{HCl}$ needed |
| Before:   | 0.100      ?      0      0                                        |                                    |
| Change:   | -0.100    -0.200 +    0.100 +    0.100                            |                                    |
| After:    | 0      ?      0.100    0.100                                      |                                    |

3. Ethane,  $\text{C}_2\text{H}_6$  reacts with oxygen gas to produce carbon dioxide gas and water vapor. What mass of oxygen gas is required to react with 2.20 moles of ethane?

|           |                                                                                          |
|-----------|------------------------------------------------------------------------------------------|
| Equation: | $2 \text{C}_2\text{H}_6 + 7 \text{O}_2 \rightarrow 4 \text{CO}_2 + 6 \text{H}_2\text{O}$ |
| Before:   | 2.20      xs      0      0                                                               |
| Change:   | -2.20    -7.70    +4.40    +6.60                                                         |
| After:    | 0      xs      4.40    6.60                                                              |

$\text{O}_2$  needed:  $7.70 \text{ mole} \times \frac{32.0 \text{ g}}{1 \text{ mole}} = 246 \text{ g O}_2$  required

4. Determine the mass of sodium nitrate produced when 0.73 g of nickel (II) nitrate reacts with sodium hydroxide according to the following equation:



$0.73 \text{ g} \times \frac{1 \text{ mole}}{183 \text{ g}} = .0040 \text{ mole}$

|           |                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------|
| Equation: | $\text{Ni}(\text{NO}_3)_2 + 2 \text{NaOH} \rightarrow \text{Ni}(\text{OH})_2 + 2 \text{NaNO}_3$ |
| Before:   | 0.0040      XS      0      0                                                                    |
| Change:   | -0.0040    -0.0080    +0.0040    +0.0080                                                        |
| After:    | 0      XS      0.0040    0.0080                                                                 |

$\text{NaNO}_3$  produced:  $0.0080 \text{ mole} \times \frac{85.0 \text{ g}}{1 \text{ mole}} = 0.68 \text{ g}$

# Pearson Education Chemistry Chapter 5 Self Check Answers

**Megan Stone**



**Pearson Education Chemistry Chapter 5 Self Check Answers:**

## **Pearson Education Chemistry Chapter 5 Self Check Answers** Book Review: Unveiling the Magic of Language

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