

**Answer to Mole Problems****Mole Worksheet KEY**

Name \_\_\_\_\_

Period \_\_\_\_\_

**Molar Relationships**

**Directions:** Answer the following questions **on a separate sheet of paper**. Set-up all problems using the factor-label method of dimensional analysis and show all your work and units.

1. What is the mass of 7.50 moles of sulfur dioxide ( $\text{SO}_2$ )? **480g**

$$\frac{7.5\text{mol}}{1} \times \frac{64\text{g}}{1\text{mol}} = 480\text{g}$$

2. How many moles are there in 250.0 grams of sodium phosphate ( $\text{Na}_3\text{PO}_4$ )? **1.52mol**

$$\frac{250\text{g}}{1} \times \frac{1\text{mol}}{164\text{g}} = 1.52\text{mol}$$

3. How many grams of potassium sulfate ( $\text{K}_2\text{SO}_4$ ) are there in 25.3 moles? **4402g**

$$\frac{25.3\text{mol}}{1} \times \frac{176\text{g}}{1\text{mol}} = 4402\text{g}$$

4. What is the volume of 0.38 moles of any gas at STP? **8.5L**

$$\frac{0.38\text{mol}}{1} \times \frac{22.4\text{L}}{1\text{mol}} = 8.5\text{L}$$

7. What is the mass of 51 liters of oxygen gas? **73g**

$$\frac{51\text{L}}{1} \times \frac{1\text{mol}}{22.4\text{L}} \times \frac{32\text{g}}{1\text{mol}} = 73\text{g}$$

1. Calculate the number of moles in 32.2-L of  $\text{NH}_3$

$$\frac{32.3\text{L}}{1} \times \frac{1\text{mol}}{22.4\text{L}} = 1.44\text{mol}$$

2. Calculate the number of grams in 3.25-mol of  $\text{AgNO}_3$

# Practice Problems Answer Key Chemistry

**Anthony S. Fauci**



## **Practice Problems Answer Key Chemistry:**

## **Practice Problems Answer Key Chemistry** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has be more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Practice Problems Answer Key Chemistry**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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