# MOLE TO MOLE STOICHIOMETRY WORKSHEET

Name : _____

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1. Using the equation

$$2\ Al + 6\ HCl \longrightarrow 2\ AlCl_3 + 3\ H_2$$

a. Find the number of moles of Al used to produce 9.9 moles of $H_2$.

b. Find the number of moles of HCl used to produce 1.11 moles of $AlCl_3$.

c. Find the number of moles of $AlCl_3$ produced along with 0.0757 moles of $H_2$.

2. The reaction between lithium and fluorine produces lithium fluoride. How many moles of lithium fluoride can be produced with 2.17 mol of fluorine?

$$2\ Li + F_2 \longrightarrow 2\ LiF$$

3. In the reaction of copper (II) oxide breaking down to form copper and oxygen, how much copper is produced if 0.663 moles of oxygen is given off?

$$2\ CuO \longrightarrow 2\ Cu + O_2$$

4. Fermentation is a complex chemical process of making wine by converting glucose into ethanol and carbon dioxide:

$$C_6H_{12}O_6\ (s) \longrightarrow 2\ C_2H_5OH\ (l) + 2\ CO_2(g)$$

If 17.5 moles of ethanol were produced, how many moles of glucose were there initially?

5. Consider the reaction:

$$Zn\ (s) + 2\ HCl\ (aq) \longrightarrow H_2(g) + ZnCl_2\ (aq)$$

Calculate the moles of HCl needed to react completely with 8.25 moles of zinc.

ChemistryLearner.com

# Moles And Stoichiometry Practice Problems Answers

WJ Hussar

**Moles And Stoichiometry Practice Problems Answers:**

Whispering the Techniques of Language: An Mental Quest through **Moles And Stoichiometry Practice Problems Answers**

In a digitally-driven world where screens reign supreme and quick conversation drowns out the subtleties of language, the profound techniques and psychological subtleties concealed within words often move unheard. However, nestled within the pages of **Moles And Stoichiometry Practice Problems Answers** a captivating literary value pulsing with natural emotions, lies an exceptional journey waiting to be undertaken. Written by a talented wordsmith, that wonderful opus invites readers on an introspective journey, gently unraveling the veiled truths and profound impact resonating within ab muscles cloth of each word. Within the mental depths of this emotional evaluation, we can embark upon a sincere exploration of the book is key themes, dissect their interesting writing fashion, and succumb to the effective resonance it evokes heavy within the recesses of readers hearts.

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