

Unit 8 Worksheet 1: Mole relationships

For each of the problems below:

- Write the balanced chemical equation.
- Identify what is given (with units) and what you want to find (with units).
- Use coefficients from balanced equation to determine mole ratio.
- Show set up (organize it!).

- Hydrogen sulfide gas, which smells like rotten eggs, burns in air to produce sulfur dioxide and water. How many moles of oxygen gas would be needed to completely burn 8 moles of hydrogen sulfide?

Equation:	<u> 2 </u> H ₂ S _(g) + <u> 3 </u> O _{2(g)} → <u> 2 </u> SO _{2(g)} + <u> 2 </u> H ₂ O _(g)
Before	<u> 2 </u> <u> ex </u> <u> 0 </u> <u> 0 </u> 3.0 mol O ₂
Change	<u> -2 </u> <u> -3 </u> <u> 2 </u> <u> 2 </u>
After	<u> 0 </u> <u> ex </u> <u> 2 </u> <u> 2 </u>

- Propane, C₃H₈, burns in air to form carbon dioxide and water. If 12 moles of carbon dioxide are formed, how many moles of propane were burned?

Equation: $2\text{Al} + 6\text{HCl} \rightarrow 2\text{AlCl}_3 + 3\text{H}_2$

Before	0.5	ex	0	0	1.50mol HCL
Change	-0.5	-1.5	+0.5	+0.5	
After	0	ex	0.5	0.75	

- Ammonia, NH₃, for fertilizer is made by causing hydrogen and nitrogen to react at high temperature and pressure. How many moles of ammonia can be made from 0.15 moles of nitrogen gas?

Equation: $3\text{H}_2 + \text{N}_2 \rightarrow 2\text{NH}_3$

Before	ex	1.25	0	2.50 mole
Change	-3.75	-1.25	+25	
After	ex	0	2.5	

Modeling Chemistry Unit 8 Test

A Loxley



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Energy Research Abstracts ,1983 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes UPCO's Review of Chemistry Robert M. Capie,2001 **Applied Mechanics Reviews** ,1996 **Inventory of Federal Energy-related Environment and Safety Research for FY 1979** ,1980 Chemistry and Industry ,2002 Inventory of Federal Energy-related Environment and Safety Research for ... ,1980 *Inventory of Federal Energy-related Environment and Safety Research for FY 1978* ,1979 *Biology* Eric Strauss,Marylin Lisowski,2000 *Inventory of Federal Energy-related Environment and Safety Research for FY 1978: Project listings and indexes* ,1979 *Laboratory Apparatus and Reagents Selected for Laboratories of Chemistry and Biology* Thomas, Arthur H., Company, Philadelphia,1914 **Journal of Industrial and Engineering Chemistry** ,1917 The Journal of Industrial and Engineering Chemistry ,1917 The Trained Nurse and Hospital Review ,1911 A monthly magazine of practical nursing devoted to the improvement and development of the graduate nurse Dairy Record ,1926 *An Empirical Test of the Concomitantly Variable Codon Hypothesis* Lauren Marie Fischer Merlo,2005 The City Record New York (N.Y.),1916 **Government reports annual index** ,199? The Software Encyclopedia ,1988 **Dissertation Abstracts International** ,1989 U.S. Government Research & Development Reports ,1970

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