

$$\text{percent yield} = \frac{\text{actual yield (g)}}{\text{theoretical yield (g)}} \times 100\%$$

↳ from B-E-A chart

## Stoichiometry Worksheet 2: Percent Yield

For each of the problems below:

- Write the balanced chemical equation.
- Identify the given (with units) and what you want to find (with units).
- Show set up with units. Give final answer with units and label.

1. Using the Hoffman apparatus for electrolysis, a chemist decomposes 36 g of water into its gaseous elements. How many grams of hydrogen gas should she get (theoretical yield)?



1 mol  $\text{H}_2\text{O}$  : 18.02 g/mol

36 g  $\frac{1\text{ mol H}_2\text{O}}{18.02\text{ g}} = 1.99\text{ mol H}_2\text{O}$

1 mol  $\text{H}_2$  : 2.02 g

2 mol  $\text{H}_2 = \boxed{4.04\text{ g H}_2}$

2. Recall that liquid sodium reacts with chlorine gas to produce sodium chloride. You want to produce 581 g of sodium chloride. How many grams of sodium are needed?



1 mol  $\text{NaCl} = 58.44\text{ g}$   
 $581\text{ g NaCl} \times \frac{1\text{ mol NaCl}}{58.44\text{ g}} = 9.94\text{ mol NaCl}$

1 mol  $\text{Na} = 22.99\text{ g}$

$9.94\text{ mol Na} \times 22.99\text{ g} = \boxed{228.52\text{ g Na}}$

# Modeling Chemistry U8 Ws V2 Answers

**J Elliott**



## **Modeling Chemistry U8 Ws V2 Answers:**

*Fossil Energy Update*, 1981      *Chemical Processes* Open University. S334 Course Team, 1978      **Energy Research Abstracts**, 1981      **Autism Spectrum Disorders** David Amaral, Daniel Geschwind, Geraldine Dawson, 2011-05-01 Autism is an emerging area of basic and clinical research and has only recently been recognized as a major topic in biomedical research. Approximately 1 in 150 children are diagnosed as autistic so it is also an intense growth area in behavioral and educational treatments. Financial resources have begun to be raised for more comprehensive research and an increasing number of scientists are becoming involved in autism research. In many respects autism has become a model for conducting translational research on a psychiatric disorder. This text provides a comprehensive summary of all current knowledge related to the behavioral, experiential and biomedical features of the autism spectrum disorders including major behavioral and cognitive syndromology, common comorbid conditions, neuropathology, neuroimmunology and other neurological correlates such as seizures, allergy and immunology, gastroenterology, infectious disease and epidemiology. Edited by three leading researchers, this volume contains over 80 chapters and nine shorter commentaries by thought leaders in the field, making the book a virtual who's who of autism research. This carefully developed book is a comprehensive and authoritative reference for what we know in this area as well as a guidepost for the next several years in all areas of autism research.

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