

# STOICHIOMETRY PROBLEMS

1. The combustion of a sample of butane,  $C_4H_{10}$  (lighter fluid), produced 2.46 grams of water.



- (a) How many moles of water formed?
- (b) How many moles of butane burned?
- (c) How many grams of butane burned?
- (d) How much oxygen was used up in moles?
- (e) How much oxygen was used up in grams?

2. Sodium metal burns in air according to the balanced reaction below.



- (a) How many moles of oxygen are needed to react with 9.5 g of sodium completely?
- (b) How many grams of sodium are needed to produce 12.5 g of sodium oxide?

3. In the combustion of 54.5 g of butane ( $C_4H_{10}$ ), how many grams of  $CO_2$  are produced? Write and balance the equation before solving.

# Stoichiometry 8b Extra Practice Problems Answers

**Thomas Griffiths**



## Stoichiometry 8b Extra Practice Problems Answers:

**Holt Chemistry File**, 1998 This reference is a must for students who need extra help reteaching or extra practice The guide moves students through the same concepts as the text but at a slower pace More descriptive detail along with visual algorithms provides a more structured approach Each chapter closes with a large bank of practice problems Book jacket

*Solving Problems in Chemistry* Rod O'Connor, Charles Mickey, Alton Hassell, 1977 Addison-Wesley Chemistry Antony C. Wilbraham, Dennis D. Staley, Michael S. Matta, Edward L. Waterman, Prentice-Hall Staff, 2001-02 To purchase or download a workbook click on the Purchase or Download button to the left To purchase a workbook enter the desired quantity and click Add to Cart To download a free workbook right click the FREE Download PDF link and save to your computer This will result in a faster download as opposed to left clicking and opening the link *Chemistry: Core Concepts, 3rd Edition* Allan

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