

CHEMFILE MINI-GUIDE TO PROBLEM SOLVING**2. PLAN**

- What step is needed to calculate the concentration of the diluted solution?

Apply the principle that $\text{volume}_1 \times \text{molarity}_1 = \text{volume}_2 \times \text{molarity}_2$.

$$\text{1} \quad \text{M}_1\text{V}_1 = \text{M}_2\text{V}_2 \quad \begin{array}{l} \text{rearrange the equation} \\ \text{M}_1\text{V}_1 = \text{M}_2\text{V}_2 \\ \text{algebraically to isolate for M}_2 \\ \text{substitute units of the known} \\ \text{quantities for the symbols and} \\ \text{calculate} \end{array} \quad \text{2} \quad \text{M}_2 = \frac{\text{M}_1\text{V}_1}{\text{V}_2}$$

$$\text{M}_2 = \frac{\text{M}_1 \times \text{V}_1}{\text{V}_2}$$

3. COMPUTE

Note: Even though molarity is moles per liter, you can use volumes in milliliters along with molarity whenever the units cancel.

$$\text{M}_2 = \frac{4.74 \text{ M} \times 50.00 \text{ mL}}{250.00 \text{ mL}} = 0.948 \text{ M}$$

4. EVALUATE

- Are the units correct?
- Is the number of significant figures correct?
- Is the answer reasonable?

Yes; molarity (mol/L) was required.
Yes; the number of significant figures is correct because the data had a minimum of three significant figures.
Yes; the computation is the same as $4.74/5$, which is a little less than 1.

PRACTICE

1. Complete the table below by calculating the missing value in each row.

Molarity of stock solution	Volume of stock solution	Molarity of dilute solution	Volume of dilute solution	
a. 0.500 M KBr	20.00 mL	7 M KBr	100.00 mL	ans: 0.100 M
b. 1.00 M LiOH	7 mL	0.075 M LiOH	500.00 mL	ans: 38 mL
c. 7 M H ₂ SO ₄	5.00 mL	0.0493 M H ₂ SO ₄	100.00 mL	ans: 0.986 M
d. 12.0 M HCl	0.250 L	1.8 M HCl	7 L	ans: 1.7 L
e. 7.44 M NH ₃	7 mL	0.093 M NH ₃	4.00 L	ans: 50. mL

Chemfile Mini Guide To Problem Solving Answers

A. Lamont Tyler, Editors of REA

Chemfile Mini Guide To Problem Solving 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

Children's Books in Print R R Bowker Publishing, Bowker, 1999-12 **Books in Print Supplement**, 2002 *Chemistry*

Problem Solver A. Lamont Tyler, Editors of REA, 2012-04-27 Each Problem Solver is an insightful and essential study and solution guide chock full of clear concise problem solving gems All your questions can be found in one convenient source from one of the most trusted names in reference solution guides More useful more practical and more informative these study aids are the best review books and textbook companions available Nothing remotely as comprehensive or as helpful exists in their subject anywhere Perfect for undergraduate and graduate studies Here in this highly useful reference is the finest overview of chemistry currently available with hundreds of chemistry problems that cover everything from atomic theory and quantum chemistry to electrochemistry and nuclear chemistry Each problem is clearly solved with step by step detailed solutions DETAILS The PROBLEM SOLVERS are unique the ultimate in study guides They are ideal for helping students cope with the toughest subjects They greatly simplify study and learning tasks They enable students to come to grips with difficult problems by showing them the way step by step toward solving problems As a result they save hours of frustration and time spent on groping for answers and understanding They cover material ranging from the elementary to the advanced in each subject They work exceptionally well with any text in its field PROBLEM SOLVERS are available in 41 subjects Each PROBLEM SOLVER is prepared by supremely knowledgeable experts Most are over 1000 pages PROBLEM SOLVERS are not meant to be read cover to cover They offer whatever may be needed at a given time An excellent index helps to locate specific problems rapidly

Holt ChemFile Lab Program, 2005 **Problem Solving Guide and Workbook**

for Introductory Chemistry by Steve Russo, Mike Silver Saundra Yancy McGuire, Steve Russo, Mike Silver, 2002 Provides over 175 worked examples and more than 500 practice problems and quiz questions to help students develop and practice their problem solving skills

Study Guide for Chemical Principles [by] Steven S. Zumdahl Steven S. Zumdahl, Paul B. Kelter, 1995 The Study Guide reflects the unique problem solving approach taken by the Chemical Principles text The new edition of the Study Guide includes many new worked out examples

Basic Chemistry Study Guide and Selected Solutions Manual Karen C. Timberlake, Mark Quirie, 2012-12-22 This workbook guides students through basic skills mathematical review and successful problem solving techniques Practice tests and solutions to odd numbered text problems are included

Problem-Solving Raymond Chang, 2005 By Brandon J Cruickshank Northern Arizona University and Raymond Chang is a success guide written for use with General Chemistry It aims to help students hone their analytical and problem solving skills by presenting detailed approaches to solving chemical problems Solutions for all of the texts even numbered problems

are included **Problem Solving Guide and Workbook for Introductory Chemistry** by Steve Russo, Mike Silver
Saundra Yancy McGuire,2007 **Modern Chemistry** Holt Rinehart & Winston,2005-06-30 **Problem Solving for
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Zumdahl,1992 The Study Guide reflects the unique problem solving approach taken by the Chemical Principles text The new
edition of the Study Guide includes many new worked out examples **Chemistry Problem Solving** James W.
Wheeler,1979-07-01 **Problem Solving** David W. Brooks,Fred Sicilio,1972 **Problem Solving in Chemistry** Glen
Tilbury,1976 **Problem Solving in Chemistry** Glen Tilbury,1984-07-01 **The Answer Key: A Comprehensive
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Turosny,2018-08-09 The Answer Key A Comprehensive Explanation of Problem Solving Methods for General Chemistry
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how math and chemistry go hand in hand The Answer Key is an excellent resource for any undergraduate course that deals
with the basic concepts of general chemistry *Chemical Problem-solving by Dimensional Analysis* Arnold B. Loebel,1974

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Guinn,Rebecca Brewer,Rachel C. Lum,2009-09-15 The Student Study Guide and Solutions Manual provides students with a
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section s critical ideas students are taken through stepped out worked examples try it yourself examples and chapter quizzes
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