

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

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

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

$$M_1 V_1 = M_2 V_2 \xrightarrow[\text{substitute each of the known quantities for its symbol and calculate}]{\begin{array}{l} \text{rearrange the equation} \\ M_1 V_1 = M_2 V_2 \\ \text{algebraically to solve for } M_2 \end{array}} M_2 = \frac{M_1 V_1}{V_2}$$

$$M_2 = \frac{4.74 \text{ M} \times 50.00 \text{ mL}}{250.00 \text{ mL}}$$

**3. COMPUTE**

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

$$M_2 = \frac{4.74 \text{ M} \times 50.00 \text{ mL}}{250.00 \text{ mL}} = 0.948 \text{ M}$$

**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.

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

# Chemfile Mini Guide To Problem Solving Answer Key

**Padhraic Smyth**



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