

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

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

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

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

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

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.

	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	? 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 ₃	? mL	0.093 M NH ₃	4.00 L	ans: 50. mL

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N Noddings



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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

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