Honors Chemistry Chapter 12: Molarity, Molality, Normality, and Mass Percent Worksheet II

Date / / Period

Molarity = Moles of solute / Liters of Solution (abbreviation = M)
Molality = Moles of solute / Kg of Solvent (abbreviation = m)
Normality = number of equivalent of solute x Molarity of Solution (abbreviation = N)
Mass Percent = mass of solute / mass of solution

How many moles of ethyl alcohol, C<sub>2</sub>H<sub>5</sub>OH, are present in 65 mL of a 1.5 M solution?

65 mL C <sub>2</sub> H <sub>3</sub> OH			= 0.098 moles C <sub>2</sub> H <sub>5</sub> OH
	1000 mL C <sub>2</sub> H <sub>2</sub> OH	1 L C <sub>2</sub> H <sub>3</sub> OH	

How many liters of a 6.0 M solution of acetic acid CH<sub>2</sub>COOH, contain 0.0030 moles of acetic acid?

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0.0030 moles CH<sub>2</sub>COOH 1 L solution = 5.0 x 10<sup>-4</sup> L solution
6.0 moles CH<sub>2</sub>COOH
```

3. You want 85 g of KOH. How much of a 3.0 m solution of KOH will provide it?

85 g KOH	1 mole	1 kg solvent	1000 g solvent	= 5.0 x 10° g solvent
	56.11 g KOH	3.0 mole KOH	1 kg solvent	

5.0 x 102 g solvent + 85 g KOH = 590 g solution

4. If you dissolve 0.70 moles of HCl in enough water to prepare 250 mL of solution, what is the molarity of the solution you have prepared?

M = 0.70 moles HCI = 2.8 M HCI 0.250 L solution

A solution is prepared by adding 2.0 L of 6.0 M HCI to 500 mL of a 9.0 M HCI solution. What is the molarity of the new solution? (Remember, the volumes are additive)

2.0 L solution	6.0 moles HCI 1 L solution	= 12 moles HCI
0.500 L solution	9.0 moles HCI 1 L solution	= 4.5 moles HCI
12 moles HCI +	4.5 moles HCI =	17 moles
2.0 L solution +	0.500 L solution	= 2.5 L solution

H - 17 ---- - 6 0 H HCI

M = <u>17 moles</u> = 6.8 M HCl 2.5 L solution

6. Convert the following Molarities to Normalities.

41.	2.5 M HGI	-		174
b.	1.4 M H <sub>2</sub> SO <sub>4</sub>	-	2.8	N

- c. 1,0 M NaOH = 1.0 N
- d. 0.5 M Ca(OH)<sub>2</sub> = \_\_\_1 \_\_N

# **Molality Answer Key**

**Daniel F McAuley** 

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## **Table of Contents Molality Answer Key**

- 1. Understanding the eBook Molality Answer Key
  - The Rise of Digital Reading Molality Answer Key
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Molality Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Molality Answer Key
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Molality Answer Key
  - Personalized Recommendations
  - Molality Answer Key User Reviews and Ratings
  - Molality Answer Key and Bestseller Lists

- 5. Accessing Molality Answer Key Free and Paid eBooks
  - Molality Answer Key Public Domain eBooks
  - Molality Answer Key eBook Subscription Services
  - Molality Answer Key Budget-Friendly Options
- 6. Navigating Molality Answer Key eBook Formats
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  - Molality Answer Key Enhanced eBook Features
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  - Highlighting and Note-Taking Molality Answer Key
  - Interactive Elements Molality Answer Key
- 8. Staying Engaged with Molality Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Molality Answer Key
- 9. Balancing eBooks and Physical Books Molality Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Molality Answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Molality Answer Key
  - Setting Reading Goals Molality Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Molality Answer Key
  - Fact-Checking eBook Content of Molality Answer Key
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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