

20**ACIDS AND BASES**
PRACTICE PROBLEMS

In your notebook, solve the following problems.

SECTION 20.1 DESCRIBING ACIDS AND BASES

1. Name the following compounds as acids.
 - a. HNO_2
 - b. H_2SO_4
 - c. HF
 - d. H_2CO_3
2. Write the formulas for the following bases.
 - a. calcium hydroxide
 - b. ammonium hydroxide
 - c. aluminum hydroxide
 - d. lithium hydroxide
3. Describe some distinctive properties of acids.
4. Describe some distinctive properties of bases.

SECTION 20.2 HYDROGEN IONS AND ACIDITY

1. A solution has a hydrogen ion concentration of $1 \times 10^{-6}\text{M}$. What is its pH?
2. What is the pH of a solution if the $[\text{H}^+] = 7.2 \times 10^{-9}\text{M}$?
3. What is the pOH of a solution if the $[\text{OH}^-] = 3.5 \times 10^{-3}\text{M}$?
4. What is the pOH of a solution that has a pH of 3.4?
5. Classify each solution as acidic, basic, or neutral.
 - a. $[\text{H}^+] = 2.5 \times 10^{-9}\text{M}$
 - b. $\text{pOH} = 12.0$
 - c. $[\text{OH}^-] = 9.8 \times 10^{-11}\text{M}$
 - d. $[\text{H}^+] = 1 \times 10^{-7}\text{M}$
 - e. $\text{pH} = 0.8$
6. Calculate the pH of each solution.
 - a. $[\text{H}^+] = 1 \times 10^{-5}\text{M}$
 - b. $[\text{H}^+] = 4.4 \times 10^{-11}\text{M}$
 - c. $[\text{OH}^-] = 2.2 \times 10^{-7}\text{M}$
 - d. $\text{pOH} = 1.4$
7. Classify the solutions in problem 6 as acidic or basic.
8. Why is there a minus sign in the definition of pH?
9. A solution has a pOH of 12.4. What is the pH of this solution?
10. What is the pH of a solution with $[\text{H}^+] = 1 \times 10^{-3}\text{M}$?

SECTION 20.3 ACID-BASE THEORIES

1. Identify the hydrogen ion donor(s) and hydrogen ion acceptor(s) for ionization of H_2SO_4 in water. Label the conjugate acid-base pairs.
2. Identify all of the ions that may be formed when H_3PO_4 ionizes in water.

Section 20 Describing Acids And Bases Answers

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Section 20 Describing Acids And Bases Answers:

This book delves into Section 20 Describing Acids And Bases Answers. Section 20 Describing Acids And Bases Answers is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Section 20 Describing Acids And Bases Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Section 20 Describing Acids And Bases Answers
 - Chapter 2: Essential Elements of Section 20 Describing Acids And Bases Answers
 - Chapter 3: Section 20 Describing Acids And Bases Answers in Everyday Life
 - Chapter 4: Section 20 Describing Acids And Bases Answers in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Section 20 Describing Acids And Bases Answers. This chapter will explore what Section 20 Describing Acids And Bases Answers is, why Section 20 Describing Acids And Bases Answers is vital, and how to effectively learn about Section 20 Describing Acids And Bases Answers.
 3. In chapter 2, the author will delve into the foundational concepts of Section 20 Describing Acids And Bases Answers. The second chapter will elucidate the essential principles that need to be understood to grasp Section 20 Describing Acids And Bases Answers in its entirety.
 4. In chapter 3, this book will examine the practical applications of Section 20 Describing Acids And Bases Answers in daily life. This chapter will showcase real-world examples of how Section 20 Describing Acids And Bases Answers can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Section 20 Describing Acids And Bases Answers in specific contexts. This chapter will explore how Section 20 Describing Acids And Bases Answers is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Section 20 Describing Acids And Bases Answers. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Section 20 Describing Acids And Bases Answers.

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