

## 3

## SCIENTIFIC MEASUREMENT

## Practice Problems

*In your notebook, solve the following problems.*

## SECTION 3.1 MEASUREMENTS AND THEIR UNCERTAINTY

*Using different rulers, Bruce and Pete each measure the length of the same object three times.*

1. Bruce's three measurements are 19 cm, 20 cm, and 22 cm. Calculate the average value of his measurements and express the answer with the correct number of significant figures.

$$\frac{19 \text{ cm} + 20 \text{ cm} + 22 \text{ cm}}{3} = 20 \text{ cm}$$

2. Pete's three measurements are 20.9 cm, 21.0 cm, and 21.0 cm. Calculate the average value of his measurements and express the answer with the correct number of significant figures.

$$\frac{20.9 \text{ cm} + 21.0 \text{ cm} + 21.0 \text{ cm}}{3} = 20.9 \text{ cm}$$

3. Multiply the answer to problem 1 by the answer to problem 2. Express the answer in scientific notation with the correct number of significant figures.

$$20 \text{ cm} \times 20.9 \text{ cm} = 418 \text{ cm}^2$$

4. Whose measurements are more precise?

Pete's

5. The actual length of the object is 20 cm. Whose measurements are more accurate?

Bruce's

6. What is the error of Pete's average measurement?

$$(21.0 - 20) \text{ cm} = 1 \text{ cm}$$

7. What is the percent error of Pete's average measurement?

$$100 \times \frac{|21.0 - 20| \text{ cm}}{20 \text{ cm}} = 5\%$$

# Section 3 1 Measurements And Their Uncertainty

## Practice Problems

**John A McDermid**



### **Section 3 1 Measurements And Their Uncertainty Practice Problems:**

This book delves into Section 3 1 Measurements And Their Uncertainty Practice Problems. Section 3 1 Measurements And Their Uncertainty Practice Problems is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Section 3 1 Measurements And Their Uncertainty Practice Problems, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Section 3 1 Measurements And Their Uncertainty Practice Problems
    - Chapter 2: Essential Elements of Section 3 1 Measurements And Their Uncertainty Practice Problems
    - Chapter 3: Section 3 1 Measurements And Their Uncertainty Practice Problems in Everyday Life
    - Chapter 4: Section 3 1 Measurements And Their Uncertainty Practice Problems in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Section 3 1 Measurements And Their Uncertainty Practice Problems. The first chapter will explore what Section 3 1 Measurements And Their Uncertainty Practice Problems is, why Section 3 1 Measurements And Their Uncertainty Practice Problems is vital, and how to effectively learn about Section 3 1 Measurements And Their Uncertainty Practice Problems.
  3. In chapter 2, the author will delve into the foundational concepts of Section 3 1 Measurements And Their Uncertainty Practice Problems. This chapter will elucidate the essential principles that must be understood to grasp Section 3 1 Measurements And Their Uncertainty Practice Problems in its entirety.
  4. In chapter 3, the author will examine the practical applications of Section 3 1 Measurements And Their Uncertainty Practice Problems in daily life. This chapter will showcase real-world examples of how Section 3 1 Measurements And Their Uncertainty Practice Problems can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Section 3 1 Measurements And Their Uncertainty Practice Problems in specific contexts. The fourth chapter will explore how Section 3 1 Measurements And Their Uncertainty Practice Problems is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Section 3 1 Measurements And Their Uncertainty Practice Problems. The final chapter will summarize the key points that have been discussed throughout the book.
- The 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 3 1 Measurements And Their Uncertainty Practice Problems.

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### Section 3 1 Measurements And Their Uncertainty Practice Problems Introduction

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