

## 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.

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

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.

$$20 \text{ cm} \times 21.0 \text{ cm} = 400 \text{ cm}$$

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

**ML Morrison**



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

## Reviewing **Section 3 1 Measurements And Their Uncertainty Practice Problems**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Section 3 1 Measurements And Their Uncertainty Practice Problems**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### **Table of Contents Section 3 1 Measurements And Their Uncertainty Practice Problems**

1. Understanding the eBook Section 3 1 Measurements And Their Uncertainty Practice Problems
  - The Rise of Digital Reading Section 3 1 Measurements And Their Uncertainty Practice Problems
  - Advantages of eBooks Over Traditional Books
2. Identifying Section 3 1 Measurements And Their Uncertainty Practice Problems
  - 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 Section 3 1 Measurements And Their Uncertainty Practice Problems
  - User-Friendly Interface
4. Exploring eBook Recommendations from Section 3 1 Measurements And Their Uncertainty Practice Problems
  - Personalized Recommendations
  - Section 3 1 Measurements And Their Uncertainty Practice Problems User Reviews and Ratings

- Section 3 1 Measurements And Their Uncertainty Practice Problems and Bestseller Lists
- 5. Accessing Section 3 1 Measurements And Their Uncertainty Practice Problems Free and Paid eBooks
  - Section 3 1 Measurements And Their Uncertainty Practice Problems Public Domain eBooks
  - Section 3 1 Measurements And Their Uncertainty Practice Problems eBook Subscription Services
  - Section 3 1 Measurements And Their Uncertainty Practice Problems Budget-Friendly Options
- 6. Navigating Section 3 1 Measurements And Their Uncertainty Practice Problems eBook Formats
  - ePub, PDF, MOBI, and More
  - Section 3 1 Measurements And Their Uncertainty Practice Problems Compatibility with Devices
  - Section 3 1 Measurements And Their Uncertainty Practice Problems Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Section 3 1 Measurements And Their Uncertainty Practice Problems
  - Highlighting and Note-Taking Section 3 1 Measurements And Their Uncertainty Practice Problems
  - Interactive Elements Section 3 1 Measurements And Their Uncertainty Practice Problems
- 8. Staying Engaged with Section 3 1 Measurements And Their Uncertainty Practice Problems
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Section 3 1 Measurements And Their Uncertainty Practice Problems
- 9. Balancing eBooks and Physical Books Section 3 1 Measurements And Their Uncertainty Practice Problems
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Section 3 1 Measurements And Their Uncertainty Practice Problems
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Section 3 1 Measurements And Their Uncertainty Practice Problems
  - Setting Reading Goals Section 3 1 Measurements And Their Uncertainty Practice Problems
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Section 3 1 Measurements And Their Uncertainty Practice Problems
  - Fact-Checking eBook Content of Section 3 1 Measurements And Their Uncertainty Practice Problems
  - 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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