

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?

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

Scientific Measurement Guided Practice Problems Answers

Arshad Iqbal



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Biology Kenneth Raymond Miller, Prentice Hall (School Division), 1999-02 **Planning Guide for Using the Trial Court Performance Standards and Measurement System**, 1997 Practical Handbook of School Psychology Gretchen Gimpel Peacock, Ruth A. Ervin, Kenneth W. Merrell, Edward J. Daly, III, 2012-07-20 Bringing together leading authorities this concise state of the science Handbook delves into all aspects of problem solving based school psychology practice Thirty four focused chapters present data based methods for assessment analysis intervention and evaluation with special attention given to working in a response to intervention framework Tools and guidelines are provided for promoting success in key academic domains reading writing and math Social emotional and behavioral skills are thoroughly Army Personnel Tests and Measurement United States. Department of the Army, 1962 Country Guide and Nor'west Farmer, 1911 *MH-SET Paper 1 Guide for Assistant Professor with Past Questions* Disha Experts, 2020-02-29 **The Art of Teaching Science** Jack Hassard, 2005 This is a core teaching textbook designed for the professional development of middle and high school science teachers Differing from other texts in its constructivist approach to learning and teaching it provides meaningful learning experiences and connections with the most recent research and understanding of science teaching Each chapter is organized into two sections the first focuses on the content of the major theme of the chapter while the second consists of a newspaper like feature called The Science Teaching Gazette containing a variety of strategies for extending the learning process Packed with learning tools hands on inquiry activities case studies think pieces and interviews with teachers around the world this is a remarkably comprehensive textbook designed to prepare a new cadre of science teachers Midwest **A Guide to the Scientific Career** Mohammadali M. Shoja, Anastasia Arynychyna, Marios Loukas, Anthony V. D'Antoni, Sandra M. Buerger, Marion Karl, R. Shane Tubbs, 2020-01-09 A concise easy to read source of essential tips and skills for writing research papers and career management In order to be truly successful in the biomedical professions one must have excellent communication skills and networking abilities Of equal importance is the possession of sufficient clinical knowledge as well as a proficiency in conducting research and writing scientific papers This unique and important book provides medical students and residents with the most commonly encountered topics in the academic and professional lifestyle teaching them all of the practical nuances that are often only learned through experience Written by a team of experienced professionals to help guide younger researchers A Guide to the Scientific Career Virtues Communication Research and Academic Writing features ten sections composed of seventy four chapters that cover qualities of research scientists career satisfaction and its determinants publishing in academic medicine assessing a researcher s scientific productivity and scholarly impact manners in academics communication skills essence of collaborative research dealing with manipulative

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