

Significant Digits and Measurement

What digits are significant when recording a measurement?

Why?

Scientists do a lot of measuring. When scientists use an instrument (such as a ruler, graduated cylinder, spectrophotometer or balance) to measure something, it is important to take full advantage of the instrument. However, they can't cheat and record a better measurement than the instrument is capable of. There is an understanding among scientists of the proper way to record valid measurements from any instrument. When you are the scientist, you must record data in this way. When you are reading other scientists' work, you must assume they recorded their data in this way.

Model 1 – Ruler A



Susan	3 cm
Maya	2 cm
Jonah	2.5 cm
Tony	3.00 cm
Emily	3¼ cm
Dionne	3.33 cm

1. What distances can you be certain of on the ruler in Model 1?
2. Six students used the ruler in Model 1 to measure the length of a metal strip. Their measurements are shown at the right. Were all of the students able to agree on a single value (1, 2, 3...) for any digit (ones place, tenths place, etc.) in the measurement? If yes, which value and digit did they agree on?
3. The ruler in Model 1 is not very useful, but a measurement can be estimated. Discuss in your group how each student might have divided up the ruler "by eye" in order to get the measurement that he or she recorded.

Pogil Significant Figures And Measurments Answers

Joan C. Obermiller



Pogil Significant Figures And Measurmets Answers:

Process Oriented Guided Inquiry Learning (POGIL) Richard Samuel Moog,2008 POGIL is a student centered group learning pedagogy based on current learning theory This volume describes POGIL s theoretical basis its implementations in diverse environments and evaluation of student outcomes **Choice** ,2009 **Scientific Measurements Explained -**

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Measurement and Significant Figures Rosina Winifred Lee,1970 *Significant Figures Made Easy* Joan C. Obermiller,1988 **Exploring Mathematics on Your Own: The World of measurement** ,1961

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Table of Contents Pogil Significant Figures And Measurmets Answers

1. Understanding the eBook Pogil Significant Figures And Measurmets Answers
 - The Rise of Digital Reading Pogil Significant Figures And Measurmets Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Pogil Significant Figures And Measurmets Answers
 - 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 Pogil Significant Figures And Measurmets Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pogil Significant Figures And Measurmets Answers
 - Personalized Recommendations
 - Pogil Significant Figures And Measurmets Answers User Reviews and Ratings
 - Pogil Significant Figures And Measurmets Answers and Bestseller Lists
5. Accessing Pogil Significant Figures And Measurmets Answers Free and Paid eBooks
 - Pogil Significant Figures And Measurmets Answers Public Domain eBooks
 - Pogil Significant Figures And Measurmets Answers eBook Subscription Services
 - Pogil Significant Figures And Measurmets Answers Budget-Friendly Options
6. Navigating Pogil Significant Figures And Measurmets Answers eBook Formats

- ePub, PDF, MOBI, and More
- Pogil Significant Figures And Measurmets Answers Compatibility with Devices
- Pogil Significant Figures And Measurmets Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pogil Significant Figures And Measurmets Answers
 - Highlighting and Note-Taking Pogil Significant Figures And Measurmets Answers
 - Interactive Elements Pogil Significant Figures And Measurmets Answers
- 8. Staying Engaged with Pogil Significant Figures And Measurmets Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pogil Significant Figures And Measurmets Answers
- 9. Balancing eBooks and Physical Books Pogil Significant Figures And Measurmets Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pogil Significant Figures And Measurmets Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pogil Significant Figures And Measurmets Answers
 - Setting Reading Goals Pogil Significant Figures And Measurmets Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pogil Significant Figures And Measurmets Answers
 - Fact-Checking eBook Content of Pogil Significant Figures And Measurmets Answers
 - 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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