

Name:

Date:

Student Exploration: Unit Conversions 2 – Scientific Notation and Significant Digits

[Note to teachers and students: This lesson is designed to be a follow-up to the Unit Conversions Student Exploration sheet. The same Gizmo is used for both activities.]

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: resolution, scientific notation, significant digits

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

Philip measures a room using his feet. (His feet are each about a foot long.) He estimates the room measures about ten and a half feet by thirteen and a half feet. He calculates the room's area to be: $10.5' \times 13.5' = 141.75 \text{ ft}^2$.

1. Which do you think is the best description of the area of the room?  Highlight your choice.

A. The room's area is exactly 141.75 ft². B. The room's area is about 142 ft².

2. Explain your choice: I chose that answer because it the answer but rounded up to 3
sig figs

Gizmo Warm-up

When scientists report a value, they have to take several things into consideration. Sometimes values are very large or small. In this case, scientists can use shorthand called **scientific notation** to report the value.

Scientists also must consider how precise their value is. The precision of a measurement can be shown by the number of **significant digits** in the value.

To begin, check that the Burj Khalifa question is shown. Drag the three tiles shown below to determine the tower's height in micrometers. The answer is given in scientific notation.

$$0.828 \text{ kilometers} \cdot \frac{1000 \text{ meters}}{1 \text{ kilometer}} \cdot \frac{1000 \text{ millimeters}}{1 \text{ meter}} \cdot \frac{1000 \text{ micrometers}}{1 \text{ millimeter}} = 8.28 \cdot 10^8 \text{ micrometers}$$

1. The Burj Khalifa is 828,000,000 micrometers tall. How is this value written in scientific notation in Gizmo™? $8.2 \cdot 10^8$
the

2. In a value, any non-zero digit is considered a significant digit. (Zeroes may or may not be significant.) What is the minimum number of significant digits in 828
828,000,000?

Student Exploration Scientific Notation And Significant Digits Answers

Albert A Gayle



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Table of Contents Student Exploration Scientific Notation And Significant Digits Answers

1. Understanding the eBook Student Exploration Scientific Notation And Significant Digits Answers
 - The Rise of Digital Reading Student Exploration Scientific Notation And Significant Digits Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Student Exploration Scientific Notation And Significant Digits 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 Student Exploration Scientific Notation And Significant Digits Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Student Exploration Scientific Notation And Significant Digits Answers
 - Personalized Recommendations
 - Student Exploration Scientific Notation And Significant Digits Answers User Reviews and Ratings
 - Student Exploration Scientific Notation And Significant Digits Answers and Bestseller Lists

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