

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 Glencoe is used for both activities.)

Vocabulary: resolution, scientific notation, significant digits

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

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? (Circle your choice.)

A. The room's area is exactly 141.75 ft^2 .

B. The room's area is about 142 ft^2 .

2. Explain your choice: _____

Glencoe 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 files shown below to determine the tower's height in micrometers. The answer is given in scientific notation.

628,000,000 micrometers	1000 Micrometers 1 Millimeter	1000 Millimeters 1 Meter	1 Meter = 1,000,000 micrometers	is 6.28×10^7 micrometers
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1. The Burj Khalifa is 628,000,000 micrometers tall. How is this value written in scientific notation in the Glencoe™? _____

2. In a value, any non-zero digit is considered a significant digit. (Zeros may or may not be significant.) What is the minimum number of significant digits in 628,000,000? _____

Explore Learning Student Exploration Unit Conversions Answers

BM King



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Table of Contents Explore Learning Student Exploration Unit Conversions Answers

1. Understanding the eBook Explore Learning Student Exploration Unit Conversions Answers
 - The Rise of Digital Reading Explore Learning Student Exploration Unit Conversions Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Explore Learning Student Exploration Unit Conversions 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 Explore Learning Student Exploration Unit Conversions Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Explore Learning Student Exploration Unit Conversions Answers
 - Personalized Recommendations
 - Explore Learning Student Exploration Unit Conversions Answers User Reviews and Ratings

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