

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 ft^2 .

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

2. Explain your choice:

His feet are about a foot long, not exactly a foot long, so can't be "exactly".

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 the Gizmo™? 8.28×10^8

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 828,000,000?

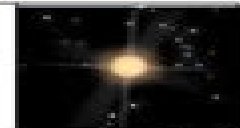
3

Activity A:

Scientific notation

Get the Gizmo ready:

- Select **Metric units only** and **Distance** from the **Conversion** menu. Make sure the **Show result** is off.
- Click **Next** until you reach the question about Proxima Centauri.



Question: How can you convert numbers into and out of scientific notation?

Scientific Notation And Significant Digits Gizmo Answer Key

DJ Losen



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Table of Contents Scientific Notation And Significant Digits Gizmo Answer Key

1. Understanding the eBook Scientific Notation And Significant Digits Gizmo Answer Key
 - The Rise of Digital Reading Scientific Notation And Significant Digits Gizmo Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Scientific Notation And Significant Digits Gizmo Answer Key
 - 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 a Scientific Notation And Significant Digits Gizmo Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Scientific Notation And Significant Digits Gizmo Answer Key
 - Personalized Recommendations

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

- 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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