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Date: 9/25/20

**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: I chose that answer because it the answer but rounded up to 3 sig fig

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.™? $8.2 \cdot 10^8$

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? 828

Unit Conversions 2 Scientific Notation And Significant Digits Gizmo

Dan Singer,Asha Narayana



Unit Conversions 2 Scientific Notation And Significant Digits Gizmo:

Scientific Unit Conversion Francois Cardarelli, 2012-12-06 Ph D in Chemical Engineering Postgraduate Degree in Electrochemistry M Sc in Physical Chemistry B Sc in Physical Chemistry and Nuclear Engineering in Geophysics and Geology Associate Degree Author Working Areas The successive author working areas since 1990 up to 1997 are in order I Research scientist at the Laboratory of Electrochemistry University Pierre 2 Research scientist at the Institute of Marine Biogeochemistry CNRS 3 Research scientist for the production of tantalum protective coatings for the chemical process industries by electro chemistry in molten salts 4 Research scientist for the preparation and characterization of IrO₂ based Dimensionally Stable Anodes DSA for oxygen evolution in acidic media used in industrial electrochemical processes Laboratory of Electrochemical Engineering Toulouse 5 Consultant in Electrochemical Engineering Toulouse 6 Battery Product Leader Argo Tech Productions Inc Boucheville Quebec Canada Contents List of Tables xiii 1 Introduction 1 1 1 Why a Conversion Handbook 1 1 2 How to Use This Book 2 2 The International System of Units 3 2 1 History 3 2 2 The General Conference on Weights and Measures 6 2 3 Organization of the SI 6 2 3 1 SI Base Units 7 2 3 2 SI Supplementary Units 9 2 3 3 SI Derived Units Metric Conversion Guide United States. Army Materiel Development and Readiness Command, 1976

Metric Conversion Guide James N. Brown, US Army, 2004-10 The general purpose of this handbook is to prepare scientists engineers and technicians of the US Army Materiel Development and Readiness Command DARCOM for increasing use of the International Systems of Units SI or as it is frequently referred to the metric system The specific objectives are to give DARCOM personnel 1 the tools required to convert the units of physical quantities and equations to SI units 2 the information needed to correctly interpret specifications and documentation using the SI and 3 the information needed to generate specifications and prepared documentation in SI units Chapter 1 presents a paragraph outline of the handbook to facilitate its use and a brief history of the introduction of and increasing use of the SI in the US Definitions rules and conventions fundamental to the SI and its use are to be found in Chapters 2 and 3 Methods for converting non SI units to SI units are given in Chapter 4 The methods make use of unit equalities and if applied rigorously will minimize or eliminate errors in unit conversions A relatively simple method is presented for modifying equations such that equations derived for use with non SI units can be used with SI units Tables of unit equalities experimentally determined constants expressed in SI units and dimensionless quantities are given in Chapter 5 Chapter 6 is concerned with the use of SI in military engineering drawings and covers dual dimensioning and conversion of the units of dimensions Sample calculations illustrating methods of converting units and modifying equations are given in Chapter 7 *Unit Conversions for Scientists, Engineers and Students* Dan Singer, Asha Narayana, 1992-11-01

Unit Conversions 2 Scientific Notation And Significant Digits Gizmo: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

<https://about.livewellcolorado.org/data/publication/Documents/Volvo%20S40%20Engine%20Repair%20Manual.pdf>

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