

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

Your text here

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 believe that A is a better answer because it is more precise and would be better to use when using the measurement for other purposes

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 kilometers	$\cdot$	$\frac{1000 \text{ meters}}{1 \text{ kilometer}}$	$\cdot$	$\frac{1000 \text{ millimeters}}{1 \text{ meter}}$	$\cdot$	$\frac{1000 \text{ micrometers}}{1 \text{ millimeter}}$	$= 8.28 \cdot 10^8 \text{ micrometers}$
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1. The Burj Khalifa is 828,000,000 micrometers tall. How is this value written in scientific notation in the Gizmo™?

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?

Unit Conversions 2 Scientific Notation And Significant Digits Gizmo

James N. Brown, Us Army



Unit Conversions 2 Scientific Notation And Significant Digits Gizmo:

Scientific Unit Conversion Francois Cardarelli, 2012-12-06 1 2 How to Use This Book Chapter 2 contains a brief history of the metric system including the organization and a complete description of SI Units Systeme International d Unites Chapter 3 gives a detailed description of a considerable number of other systems of measurement This includes several alternative modern systems of measurement some of which are still in widespread use e g imperial US cgs MTS FPS Finally there is a description of systems used in antiquity e g ancient Chinese Indian Egyptian Persian Hebrew Greek Roman Arabic as well as older national or regional systems e g French Italian German Japanese Chapter 4 which forms the most important part of the book consists of an exhaustive set of conversion tables This chapter covers the units in alphabetical order Each unit is fully described as follows name symbol s physical quantity dimension conversion factor notes and definitions The section covers some 2000 units each with a precise conversion factor Chapter 5 enables a unit to be identified from its area of application For this purpose units are classed in groups It contains thirty five conversion tables ranging from mass to nuclear quantities In order to facilitate use of this manual several supplementary sections have been added to aid the researcher These include tables of fundamental mathematical and physical constants to allow very precise calculation of conversions These form the sixth chapter of the book

Metric Conversion Guide United States. Army Materiel Development and Readiness Command, 1976 *Unit Conversions for Scientists, Engineers and Students* Dan Singer, Asha Narayana, 1992-11-01

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

Embark on a transformative journey with is captivating work, Discover the Magic in **Unit Conversions 2 Scientific Notation And Significant Digits Gizmo** . This enlightening ebook, available for download in a convenient PDF format , invites you to explore a world of boundless knowledge. Unleash your intellectual curiosity and discover the power of words as you dive into this riveting creation. Download now and elevate your reading experience to new heights .

http://www.frostbox.com/About/uploaded-files/default.aspx/Student_Solutions_Manual_For_Calculus_Early_Transcendental_Functions.pdf

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