

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?

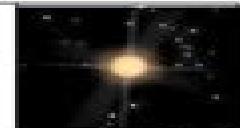
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Activity A:

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

Roman Wölfel



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