

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 tiles 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 = 1,000,000,000 Micrometers	= 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? _____

Student Exploration Unit Conversions Gizmo Answers

Padhraic Smyth

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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Harper's Magazine ,1973

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