

Name:

Date:

## Student Exploration: Unit Conversions

**Vocabulary:** base unit, cancel, conversion factor, dimensional analysis, metric system, prefix, scientific notation

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

Sara lives in Toronto, Canada, while her cousin Michael lives in Detroit, Michigan. They like to compare how fast they are growing up.

1. Sara tells Michael she is 160 centimeters tall, while Michael says he is 60 inches tall. If there are 2.54 centimeters in an inch, who is taller?
2. Michael tells Sara he weighs 104 pounds. Sara says she is 44 kilograms. If there are 2.2 pounds in a kilogram, who is heavier?

### Gizmo Warm-up

As you could see from the questions above, there are different ways to measure the same quantity. Every measurement includes both a number and a unit. There are many, many different units you can use to measure the same attribute, such as height, weight, or volume. The *Unit Conversions* Gizmo shows you how you can convert from one unit to another in order to compare measurements.

☒ Metric units only ☐ Mixed units

The tallest building in the world, the Burj Khalifa in Dubai, is 0.828 kilometers high. What is the building's height in centimeters?

Conversion:

Distance

Next

1. To begin, check that this question is shown: *The tallest building in the world, the Burj Khalifa in Dubai, is 0.828 kilometers high. What is the building's height in centimeters?* (If this is not the question you see, click **Next** until it appears.)
  - A. What unit is given in the question?
  - B. What unit is asked for?
2. Look for the **Unit Conversion Tile** that has the unit "meter" on top and "kilometer" on the bottom. This tile shows a **conversion factor**, or a ratio that compares two equivalent values.
  - A. According to this tile, how many meters are in a kilometer?
  - B. Look at the tile next to it. How many centimeters are in a meter?

# Student Exploration Unit Conversions 2 Answers

**RC Schank**



## **Student Exploration Unit Conversions 2 Answers:**

*Explorations in College Algebra* Kime,1996-09      **Mathematical Models for Teaching** Ann Kajander,Tom Boland,2014-01-01 Students of mathematics learn best when taught by a teacher with a deep and conceptual understanding of the fundamentals of mathematics In *Mathematical Models for Teaching* Ann Kajander and Tom Boland argue that teachers must be equipped with a knowledge of mathematics for teaching which is grounded in modelling reasoning and problem based learning A comprehensive exploration of models and concepts this book promotes an understanding of the material that goes beyond memorization and recitation which begins with effective teaching This vital resource is divided into 15 chapters each of which addresses a specific mathematical concept Focusing on areas that have been identified as problematic for teachers and students *Mathematical Models for Teaching* equips teachers with a different type of mathematical understanding one that supports and encourages student development Features grounded in the most current research about teachers learning contains cross chapter connections that identify common ideas includes chapter concluding discussion questions that encourage critical thinking incorporates figures and diagrams that simplify and solidify important mathematical concepts offers further reading suggestions for instructors seeking additional information      *Schooling for Life* Jacqueline Grennon Brooks,2002 The activities that transpire within the classroom either help or hinder students learning Any meaningful discussion of educational renewal therefore must focus explicitly and directly on the classroom and on the teaching and learning that occur within it This book presents a case for the development of classrooms in which students are encouraged to construct deep understandings of important concepts Jacqueline Grennon Brooks and Martin Brooks present a new set of images for educational settings images that emerge from student engagement interaction reflection and construction They have considerable experience in creating constructivist educational settings and conducting research on those settings Authentic examples are provided throughout the book as are suggestions for administrators teachers and policymakers For the new edition of their popular book the authors have written an introduction that places their work in today s educational renewal setting Today they urge the case for constructivist classrooms is much stronger and the need more critical      *Navigating Through Measurement in Grades 3-5* Nancy Canavan Anderson,2005 Follows students natural progression from measuring with informal or non standard units to using standard units to measure such attributes as length weight angle and temperature Activities extend students learning to the measurement of two and three dimensional objects Students work in a variety of lively real world contexts gathering measurement benchmarks in a classroom scavenger hunt and investigating the area of a rectangle while acting as owners of a sticker factory for example      *Career and College Readiness Counseling in P-12 Schools, Second Edition* Jennifer Curry,Jennifer R. Curry,Amy Milsom,2017-02-24 Praise for the First Edition Serves as an excellent foundational text I am very thankful that the authors wrote this text It is written for school counselors by school counselor educators Gene Eakin PhD School Counseling Program

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