

# Math Unit 4: Decimals and Their Uses

## Study Guide

### DECIMALS

- \* What is a decimal?
- \* Know the place values for tenths, hundredths, & thousandths

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### \* Be able to:

- Determine how to order decimals
- Read and write decimals
- Add & subtract decimals
- Compare decimals
- Build decimals
- Write decimals as fractions
- Find missing variables

- \* Be able to use base-10 blocks to show place value

### REVIEW

- \* What is a multiple? Be able to list the **first** ten multiples of a number.
- \* What are factors? Be able to list all of the factor pairs of a number.
- \* Be able to multiply a 3 digit number times a 1 digit number.
- \* Be able to multiply a 3 digit number times a 2 digit number

### METRIC UNITS OF MEASUREMENT

- \* What are the abbreviations for the following metric units of length?
  - centimeter
  - millimeter
  - meter
  - decimeter
- \* What is a personal measurement reference?  
What are yours?
- \* Know metric unit values.
  - 10 mm = 1 cm
  - 10 cm = 1 dm
  - 10 dm = 1m
  - 100 cm = 1m
  - 1,000 mm = 1m
- \* How can visualizing the metric conversion chart help you?  
Know how to change decimals from place value to place value


- \* Be able to measure to the nearest millimeter or centimeter. (Write as a decimal.)

## VOCABULARY

centimeter

millimeter

decimeter

meter

decimal

deposit

debit

withdrawal

tenth

hundredth

thousandth

personal measurement reference

unit

whole

## Secure Goals

Student can:

1. Insert  $>$  and  $<$  to make true number sentences.
2. Use dollar & cent notations correctly
3. Order decimals.
4. Write numbers between 2 whole numbers.
5. Measure and draw line segments to the nearest centimeter and to the nearest  $\frac{1}{2}$  centimeter.  
Remember, the endpoints are **not** part of the measurement.
6. Write factors and multiples.
7. Add and subtract decimals.
8. Solve open sentences.

## Developing Goals

Student can:

1. Rename decimals as fractions with 10, 100, and 1,000 in the denominator.
2. Measure line segments to the nearest millimeter.
3. Solve a decimal addition and subtraction number story.
4. Identify decimal digits and express their value.