

## KEY CONCEPT OVERVIEW

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In Lessons 5 and 6, students focus on writing numbers in different forms to the thousandths place using decimals and fractions. Students also learn to compare decimals using the symbols for greater than ( $>$ ), less than ( $<$ ), or equal to ( $=$ ).

You can expect to see homework that asks your child to do the following:

- Represent the same number in different forms (as shown in the sample problem below).
- Compare numbers using symbols.

## SAMPLE PROBLEM (From Lesson 5)

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Represent 25.413 in standard form, word form, expanded form using decimals and fractions, unit form, and as a mixed number.

Standard form: **25.413**

Word form: ***Twenty-five and four hundred thirteen thousandths***

Expanded form using decimals:  $2 \times 10 + 5 \times 1 + 4 \times 0.1 + 1 \times 0.01 + 3 \times 0.001$

Expanded form using fractions:  $2 \times 10 + 5 \times 1 + 4 \times \frac{1}{10} + 1 \times \frac{1}{100} + 3 \times \frac{1}{1000}$

Unit form: ***2 tens 5 ones 4 tenths 1 hundredth 3 thousandths***

Mixed number:  $25 \frac{413}{1000}$

Additional sample problems with detailed answer steps are found in the *Eureka Math Homework Helpers* books. Learn more at [GreatMinds.org](http://GreatMinds.org).

## HOW YOU CAN HELP AT HOME

- Write a challenging number with three numbers to the right of the decimal, such as 1,769,432.158. Ask your child to say the number in unit form. “Say the number using place value units starting from the millions to the thousandths place.” (Answer: 1 million, 7 hundred-thousands, 6 ten-thousands, 9 thousands, 4 hundreds, 3 tens, 2 ones, 1 tenth, 5 hundredths, 8 thousandths.)
- Play the “Comparison” card game with your child.
  1. Take out the Jacks, Queens, Kings, Aces, and Jokers.
  2. Put the stack of remaining cards face down.
  3. You and your child will each flip one card.
  4. Name each card as tenths, and then compare them.
  5. The person with the larger number wins a point.

For example, you flip a 2, it represents 0.2. She flips a 7, it represents 0.7. Since  $0.2 < 0.7$ , she wins a point.

Note: Flip 1 card to compare tenths, flip 2 cards to compare hundredths, and flip 3 cards to compare thousandths.

- Ask your child about place value units while looking at a multi-digit number. He can attempt to do this without a visual aid for an extra challenge. “What unit is to the left of the ones place on the place value chart? What unit is to the right of the tenths place on the place value chart?”

## TERMS

**Expanded form using decimals:** A way to write a number by adding the value of its digits using decimals (e.g.,  $2 \times 100 + 5 \times 10 + 7 \times 1 + 3 \times 0.1 + 4 \times 0.01 = 257.34$ ).

**Expanded form using fractions:** A way to write a number by adding the value of its digits using fractions (e.g.,  $2 \times 100 + 5 \times 10 + 7 \times 1 + 3 \times \frac{1}{10} + 4 \times \frac{1}{100} = 257.34$ ).

## MODELS

### Place Value Chart

1,000,000	100,000	10,000	1,000	100	10	1	.	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	.	Tenths	Hundredths	Thousandths
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