# ak Park Elementary School District 97

# MATH NEWS

## Grade 5 | Module 1 | Topic C | Place Value and Decimal Fractions

## Welcome

This document is created to give parents and students a better understanding of the math concepts found in the Eureka Math (© 2013 Common Core, Inc.) that is also posted in the Engage New York material taught in the classroom. Grade 5 Module 1 of Eureka Math (Engage New York) covers place value and decimal fractions. This newsletter will discuss Module 1, Topic C.

## Topic C Objective

Round a given decimal to any place using place value understanding and the vertical number line

## Focus Area: Topic C

- Express 5.2 in word form.
        *(five and two tenths)*
- Write the expanded form using decimals or fractions.
        *(5 x 1 + 2 x 0.1)*
- Express in unit form.
        *(5 ones 2 tenths)*
- Write a decimal for the following.
        *(3 x 10 + 6 x 1 + 9 x 0.1 + 8 x 0.001 = 36.908)*

# Words to Know

*The following are key vocabulary words for this topic*

Students will name decimal fractions in expanded form, unit form, standard form, and word form.

| word form | twenty-three and four hundred twenty-five thousandths |
|---|---|
| standard form | $23.425 = 23\frac{425}{1000}$ ← This is called a decimal fraction because it's denominator is a power of ten. |
| expanded form | $23.425 = 2 \times 10 + 3 \times 1 + 4 \times 0.1 + 2 \times 0.01 + 5 \times 0.001$<br>$23.425 = 2 \times 10 + 3 \times 1 + 4 \times (\frac{1}{10}) + 2 \times (\frac{1}{100}) + 5 \times (\frac{1}{1000})$ |
| unit form | 2 tens 3 ones 4 tenths 2 hundredths 5 thousandths |

Students will also begin comparing decimal fractions to the thousandths place using symbols.

> Greater Than
< Less Than
= Equal To

*Application Problems and Answers:*

**Problem:** **Ms. Karen wrote 5.425 on the board. Tommy says its five and four hundred twenty-five thousandths. Jessie says its 5 ones 4 tenths 2 hundredths 5 thousandths. Who is correct?**

*They are both correct. Tommy said it in word form and Jessie said it in unit form.*

## *Application Problems and Answers (cont.)*

**Problem: Show the numbers on the place value chart using digits. Use <, >, or = to compare. Explain your thinking.**
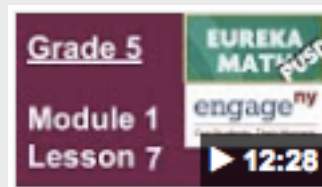


**Problem: Jimmy measured 0.495 liters of water. James measured 0.5 liters of water. Jimmy says, "My beaker has more water than yours because my number has 3 decimal places and yours only has 1." Is Jimmy correct? Use words and numbers to explain your answer.**

*No, Jimmy is not correct. I know this because 5 tenths of a liter is equal to 500 thousandths liters. 500 thousandths of a liter is greater than 0.495 thousandths of a liter.*

## Online Resources

Flipped learning is a great way to review topics that your student is learning in the classroom. The following are links to videos that give detailed explanations for each lesson in this topic.

**Lesson 7:** https://www.youtube.com/watch?v=4BndXwTMm-o



**Lesson 8:** https://www.youtube.com/watch?v=Vm_GdJpbBQo



## Homework Help

Looking for assistance for to help complete nightly homework? Check out the following website to get digital copies of homework, as well as detailed explanations in video format:

*http://www.oakdale.k12.ca.us/cms/page_view?d=x&piid=&vpid=1401784829350*

Don't forget to check out www.zearn.com for extra practice as well!