Oak Park Elementary School District 97

MATH NEWS

Grade 5 | Module 1 | Topic B | 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 B.

Topic B Objective

- Name decimal fractions in expanded, unit, and word forms by applying place value reasoning
- Compare decimal fractions to the thousandths using like units and express comparisons with <, >, =.

Focus Area: Topic B

- 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	$23.425 = 2 \times 10 + 3 \times 1 + 4 \times 0.1 + 2 \times 0.01 + 5 \times 0.001$ $23.425 = 2 \times 10 + 3 \times 1 + 4 \times (\frac{1}{10}) + 2 \times (\frac{1}{100}) + 5 \times (\frac{1}{1000})$
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

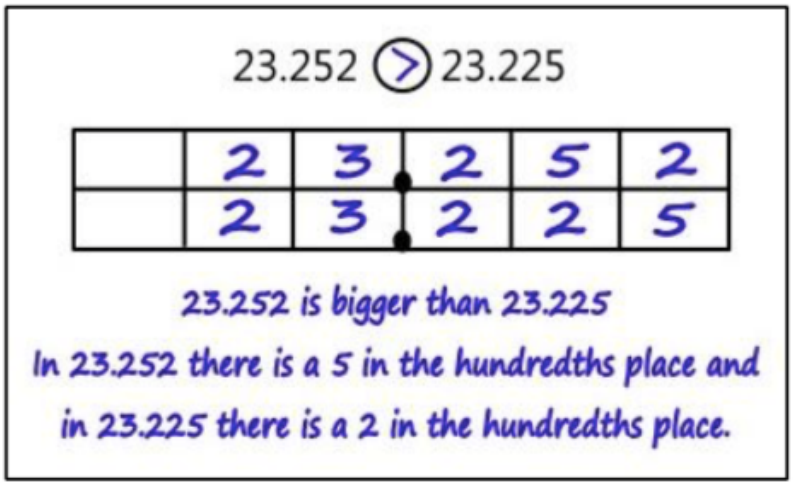
Application Problems and Answers:

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.

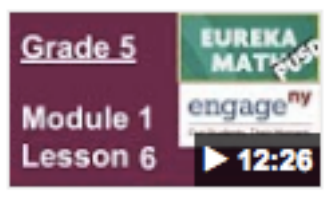
No, Jimmy is not correct. I know this because 5 tenths of a liter is equal to 500 thousandths liters. 500 thousandths of a liter is greater than 0.495 thousandths of a liter.

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 5: https://www.youtube.com/watch?v=IDxYa9hvaY4

Lesson 6: https://www.youtube.com/watch?v=TbtRistgUBY



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!