


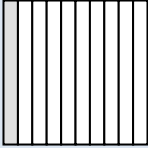
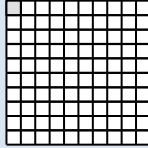
Packet 4: Decimal Concepts

Dear Parents/Guardians,

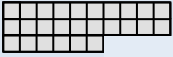
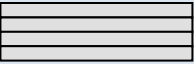
In packet 4, students will represent numbers less than one as pictures, in words, and fractions, decimals and percents. Students will locate decimals on a ruler and a number line to continue comparing and ordering quantities.

Representing Fractions and Decimals

Students will represent fractions and decimals with base 10 blocks.

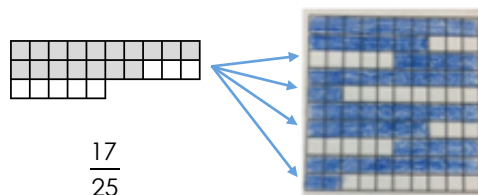
		
Represents 1	The 1 is divided into ten equal parts. Each part is $\frac{1}{10}$ of the whole.	The 1 is divided into 100 equal parts. Each part is $\frac{1}{100}$ of the whole.

Students use these pictorial representations to relate the value in words, fraction form, and decimal form.

Picture	Words	Fraction	Decimal
	Twenty-six hundredths	$\frac{26}{100}$	0.26
	Four tenths	$\frac{4}{10}$	0.4

Representing Percents

Percent means, "per one hundred". Students use a replicating technique to shade in the same fractional amount of a 10x10 grid to rename fractions as decimals and percents.

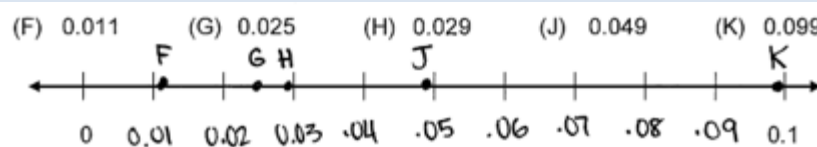


Students can shade 17 of the 25 hundredths four times on the 10 x 10 grid.

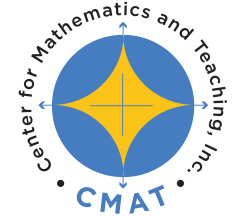
$$\frac{17}{25} = \frac{68}{100} = 0.68 = 68\%$$

Decimal Place Value and Number Lines

Students explore dividing number lines into equal parts, based on the values given. Students estimate where decimals would be located on the number lines to visually compare and order them.



This number line is divided into ten equal parts from 0 to 0.1 or 0.10. Divide 0.10 by 10 to know how much each part should be.
 $0.10 \div 10 = 0.01$



Mathlinks 6

By the end of the packet, your student should know...

How to represent fractions, decimals and percents using pictures, numbers and words
 Lessons 4.1 and 4.3

How to compare and order decimals using a number line
 Lesson 4.2

Additional Resources

Resource Guide (RG)
 Part 1, pages 33-34 and 49