P.S. 103 Math Family Letter

Grade 5: Unit 2 Place Value-Decimals/Fractions



Student Learning Goals:

- I can explain the relationship between digits that are the same but in different place value positions.
- I can read and write numbers with decimals to the thousandths place in standard, word, unit, and expanded form.
- I can use tools and math models to visually represent the value of digits in a given number.
- I can compare whole numbers, decimals, and fractions.
- I can use whole number exponents to denote powers of 10.
- I understand that a fraction and decimal are parts of a whole.

Website for Practice:

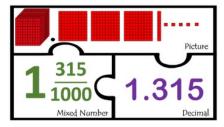
https://www.khanacademy.org/math/cc-fifth-grademath/imp-place-value-and-decimals

Key Vocabulary:

- place value, greater than, less than, equal to, <, >, =, comparisons/compare, round, base-ten numerals (standard from), number name (written form), expanded form, inequality, expression, equivalent, reason
- partition(ed), fraction, unit fraction, multiple, denominator, numerator, benchmark fraction

Tools/Models/Strategies

Base Ten Model:



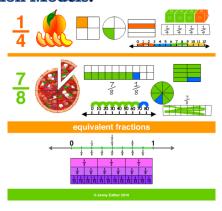
Place Value Chart:

(Hundreds)	Tens	Ones 🗂	Decimal point	10	100	1000
			•			
			•			
Hundreds	Tens	Ones	•	tenths	hundredths	thousandths

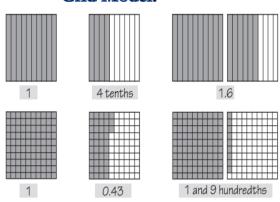
Powers of Ten:

5		Powers of Ten					
1	Power	Expression	Standard Form				
10^{1} 10^{2} 10^{3} 10^{4}		10	10				
		10 x 10	100				
		10 x 10 x 10	1,000				
		10 x 10 x 10 x 10	10,000				
ı	10^{5}	10 × 10 × 10 × 10 × 10	100,000				
10^{6} 10^{7}		10 × 10 × 10 × 10 × 10 × 10	1,000,000				
		10 × 10 × 10 × 10 × 10 × 10 × 10	10,000,000				
1	10 ⁸	10 x 10	100,000,000				
١	10 ⁹	10 x	1,000,000,000				

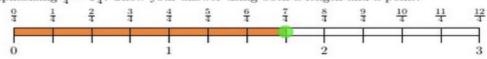
Fraction Models:



Grid Model:



Draw and label a number line from 0 to 3 with tick marks at every quarter, emphasizing $\frac{7}{4} = 1\frac{3}{4}$. Show your answer using both a length and a point.



Number line: