## P.S. 103 <br> 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.


## Key Vocabulary:

- place value, greater than, less than, equal to, $\langle\rangle,,=$, 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:


Powers of Ten:

| Powrers of Ten |  |  |
| :--- | :--- | :--- |
| Power Expression  <br> $10^{1}$ 10 <br> $10^{2}$ $10 \times 10$ <br> $10^{3}$ $10 \times 10 \times 10$ <br> $10^{4}$ $10 \times 10 \times 10 \times 10$ <br> $10^{5}$ 100 <br> $10^{6}$ $1000 \times 10 \times 10 \times 10 \times 10$ <br> $10^{7}$ 10,000 <br> $10^{8}$ 100,000 <br> $10^{9}$ $10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$ | $1,000,000$ |  |

Fraction Models:


Grid Model:



4 tenths

0.43

1.6


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:


