Fourth Grade Unit 8
Review, Mastery, and Extend

Dear Parents,
Fourth Grade is coming to an end! At this time, students are reviewing standards learned, mastering standards, and possibly previewing standards for fifth grade. The fourth grade focus was to:

- Addition and subtraction with the traditional algorithm
- Multiply and divide whole numbers
- Operations with fractions
- Angle measurement

Concepts students may preview for 5th Grade

- 5.NBT.1 Place value with decimals
- 5.NBT.2 Powers of 10 patterns
- 5.NBT.5 Fluently multiply multi-digit numbers with the standards algorithm up to a 3-digit by 2-digit factor
- 5.NBT.6 Fluently divide up to 4-digit numbers by 2-digit divisors

Vocabulary
- **Exponent**: showing the number of times the base number is multiplied by itself
- **Quotient**: answer to a division problem
- **Fluently**: accurately and efficiently
Example 1

The value of a digit depends upon its position in a number. You can find the value of a digit by multiplying it by its place.

<table>
<thead>
<tr>
<th>Place</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Millions</td>
<td>3</td>
</tr>
<tr>
<td>Ten Millions</td>
<td>3</td>
</tr>
<tr>
<td>Hundred Thousands</td>
<td>3</td>
</tr>
<tr>
<td>Thousands</td>
<td>3</td>
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<tr>
<td>Ten Thousands</td>
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<td>Hundredths</td>
<td>3</td>
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<tr>
<td>Thousandths</td>
<td>3</td>
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</tbody>
</table>

\[(3 \times 1) \times (3 \times 0.1) + (3 \times 0.01) \times (3 \times 0.001)\]

Example 2

\[2.5 \times 10^3 = 2.5 \times (10 \times 10 \times 10) = 2.5 \times 1,000 = 2,500\]

Example 3

Multiply 512 x 46

First, we need to multiply 512 by 40.

Then we need to multiply 512 by 6.

Example 4

\[350 \div 10 = 35\]  \[\frac{350}{10} = 35\]  \[(350 \times \frac{1}{10}) = 35\]

Home Activities

- When grocery shopping, have your child read the cost of items with the correct place value.
- Practice addition, subtraction, multiplication and division facts
- Make up numbers, roll numbers with dice, or find numbers (on labels) and multiply or divide them
- Play online games such as: [http://www.adaptedmind.com/gradelist.php?grade=5](http://www.adaptedmind.com/gradelist.php?grade=5)
- When driving, use street numbers to multiply and divide