

Welcome back to school! In an effort to keep parents and guardians informed of the expectations and content being covered in math class this year, this informational handout will be provided for each chapter. Its intent is to assist in guiding you in ways to support your child in deepening their mathematical understanding.



Scan the QR code to check out teaching strategies for this chapter.

In each chapter we will spend time reviewing material taught in prior grades as it relates to the standards being taught in fifth grade. Our goal is to keep a balance of skill based learning along with enhancing our student's ability to problem solve and think conceptually.

| Review Material from Prior Grades |
|---|
| <ol style="list-style-type: none"> 1) Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right. (4.NBT.1) 2) Round multi-digit whole numbers to any place using place value. (4.NBT.3) 3) Express fractions with denominator of 10 as an equivalent fraction with a denominator of 100. (4.NF.5) 4) Represent fractions with denominators 10 or 100 with multiple representations and decimal notation. (4.NF.6) 5) Compare two decimals to hundredths using the symbols $>$, $=$, or $<$. (4.NF.7) |
| New Material for 5 th Grade |
| <ol style="list-style-type: none"> 1) I can recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and $\frac{1}{10}$ of what it represents in the place to its left. (5.NBT.1) 2) I can read and write decimals to thousandths using base-ten numerals (standard form), number names (word form), and expanded form. (5.NBT.3a) 3) I can compare two decimals to thousandths based on meanings of the digits in each place, using $<$, $=$, and $>$ symbols to record the results of comparisons. (5.NBT.3b) |
| End of Chapter Expectations |
| <ol style="list-style-type: none"> 1) Chapter Assessment |

*Please note the list above highlights the main skills to be assessed. Teachers may include additional content to meet the needs of their students.

Place Value Strategies

Decimal Place Value Chart

The value of a digit depending on its place in a number.

Example:

The chart below shows the number 273.468.

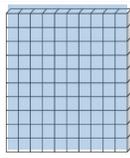
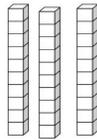
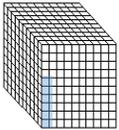
| | | | | | | |
|----------|------|------|---------------|--------|------------|-------------|
| 200 | 70 | 3 | . | .4 | .06 | .008 |
| 2 | 7 | 3 | . | 4 | 6 | 8 |
| Hundreds | Tens | Ones | Decimal place | Tenths | Hundredths | Thousandths |

Base Ten Blocks

A way to represent values using base ten blocks.

Example:

1.336 can be represented as shown below.

| | | | | |
|---|---|---|---|---|
| Ones | | Tenths | Hundredths | Thousandths |
|  | . |  |  |  |
| ↓ | + | ↓ | + | ↓ |
| 1 | | .3 | | .03 |
| | | | | ↓ |
| | | | | .006 |

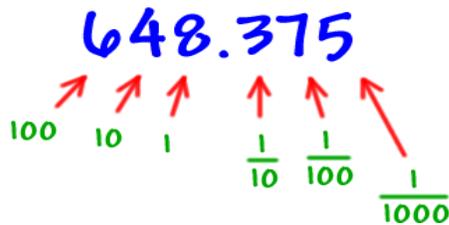
Expanded Form

A way of writing numbers to show place value.

Example:

648.375

100 10 1 $\frac{1}{10}$ $\frac{1}{100}$ $\frac{1}{1000}$



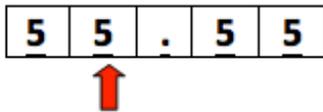
$$(6 \times 100) + (4 \times 10) + (8 \times 1) + 3 \left(\frac{1}{10}\right) + 7 \left(\frac{1}{100}\right) + 5 \left(\frac{1}{1000}\right)$$

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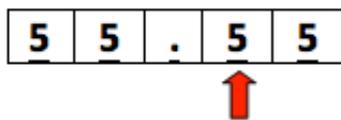
Place Value Strategies

Value of Digits**Example:**

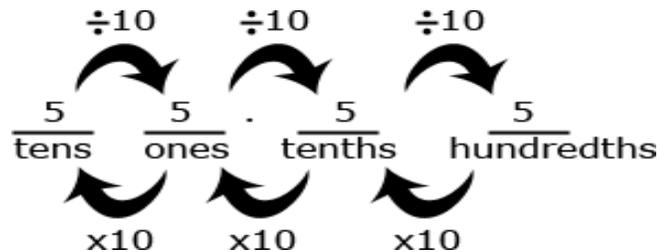
In the number 55.55, each digit is 5, but the value of the digits is different because of the placement.



The 5 that the arrow points to is $\frac{1}{10}$ of the 5 to the left and 10 times the 5 to the right. The 5 in the ones place is $\frac{1}{10}$ of 50 and 10 times five tenths.



The 5 that the arrow points to is $\frac{1}{10}$ of the 5 to the left and 10 times the 5 to the right. The 5 in the tenths place is 10 times five hundredths.



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