| Unit | **5th: Unit 3- Operations with Decimals and Place Value**<br>**Math Investigations Book: Decimals on the Grids and Number Lines**<br>**Standards for Grade 5**<br>UNIT 1= Place Value, Addition & Subtraction of Whole Numbers UNIT 2= Addition and Subtraction of Fractions UNIT 3= Operations with Decimals and Place Value UNIT 4= Volume UNIT 5= Multiplication and Division of Whole Numbers UNIT 6= Multiplication and Division of Fractions UNIT 7= Names and Properties of Shapes UNIT 8= Multiplication and Division of Greater Whole Numbers UNIT 9= Shape and Number Patterns |
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| 3,4,5,9 | **5.OA.1 Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.** |
| 3,1,5 | **5.NBT.1 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 1/10 of what it represents in the place to its left.** |
| 3,5 | **5.NBT.2 Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.** |
| 3 | **5.NBT.3.a Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g., 347.392 = 3 x 100 + 4 x 10 + 7 x 1 + 3 x (1/10) + 9 x (1/100) + 2 x (1/1000).** |
| 3 | **5.NBT.3.b Compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.** |
| 3 | **5.NBT.4 Use place value understanding to round decimals to any place.** |
| 3,4,5,8 | **5.NBT.5 Fluently multiply multi-digit whole numbers using the standard algorithm.** |
| 3,4,5,8 | **5.NBT.6 Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.** |
| 3,8 | **5.NBT.7 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.** |
| 3 | **5.MD.1 Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems.** |