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| Trimester 3  | Grade: 4th Grade | Unit Number: 9 |
| Unit Overview: * Reinforce naming equivalencies among fractions, decimals, and percents
* Reinforce the use of a data table, guide the organization and tabulation of survey data and rank and compare data reported as percents
* Introduce multiplication and division of decimals by whole numbers

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| Essential Question: Why is organization of numbers and data important? |
| Academic Vocabulary: fraction, equivalent fractions, numerator, denominator, decimal, scale, unit, remainder, estimation, rounding, rectangular array, area model |
| Lesson | Standard | Guiding Questions | Additional Resources  | Differentiation | Student Learning Goals |
| 9.1 | 4.NF.1**4.NF.6**4.MD.7 | * Why is it important to find many names for numbers?
 |  |  | I can… * Using visual fraction models, explain how two fractions that differ in the number and size of the parts fractions can be equivalent.
* Generate equivalent fractions by multiplying or dividing the numerator and denominator by the same number

4NF.1* Rewrite a fraction with a denominator 10 as an equivalent fraction with denominator 100.
* Add two fractions with respective denominators of 10 and 100.

4.NF.5* Use decimal notation for fractions with denominators of 10 and 100.
* Identify the tenths and hundredths place of a decimal.
* Show the placement of a decimal on a number line.

4.NF.6* Represent measurements using diagrams such as a number line that features a measurement scale.
* Use the four operations to solve word problems involving measurements.
* Convert a measurement given in a larger unit into an equivalent measurement in smaller units in order to solve a problem

4.MD.2* Use the formulas for area and perimeter to solve real world problems.

4.MD.3* Solve multi-step word problems with whole numbers using the four operations.
* Interpret remainders in word problems.
* Write equations using a variable to represent the unknown quantity.
* Check my answers using mental computation and estimation strategies, including rounding

4.OA.3* Multiply a multi digit number by a one-digit whole number using place value and the properties of operations.
* Multiply two two-digit numbers using properties of operations and equations.
* Explain my calculation using equations, rectangular arrays, and/or area models.

4.NBT.5 |
| 9.2  | **4.NF.1****4.NF.5****4.NF.6****4.MD.3** | * How can using equivalent names help you to solve problems?
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| 9.3  | **4.NF.6** | * When might you use the shortcut?
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| 9.4 | 4.MD.14.MD.2 | * When might you need to determine the sale price of an item?
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| 9.5 | 4.NF.64.MD.7 | * When might this shortcut help you in real life?
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| 9.6 | 4.OA.34.NF.54.MD.2 | * Why do we organize data in real life?
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| 9.7 | 4.NF.2 | * Who might use this type of data in real life?
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| 9.8 | **4.NBT.5****4.MD.2** | * What do you need to know about place value to estimate products of decimals?
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| 9.9 | **4.OA.3****4.NBT.6****4.MD2**4.G.14.G.2 | * How is this similar to placing the decimal point when multiplying decimals?
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| Assessment: Progress Check Unit 9 |