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