Whiteriver Unified School District Essential Standards Quarterly Focus

What is it we expect students to learn?

Grade: 4th	Subject: Math

First Quarter	Second Quarter
Place Value **4.NBT.A.1** Apply concepts of place value, multiplication, and division to understand that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right. **Multiplication as Comparison** **4.OA.A.2** Multiply or divide within 1000 to solve word problems involving multiplicative comparison (e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison). **Multi-Step Word Problems** **4.OA.A.3** Solve multistep word problems using the four operations, including problems in which remainders must be interpreted. Understand how the remainder is a fraction of the divisor. Represent these problems using equations with a letter standing for the unknown quantity.	**Multiplication** **4.NBT.B.5** Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. **4.OA.A.2** Multiply or divide within 1000 to solve word problems involving multiplicative comparison (e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison). **Multi-Step Word Problems** **4.OA.A.3** Solve multistep word problems using the four operations, including problems in which remainders must be interpreted. Understand how the remainder is a fraction of the divisor. Represent these problems using equations with a letter standing for the unknown quantity. **Fraction Equivalence** **4.NF.A.1** Apply concepts of place value, multiplication, and division to understand that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right.

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Third Quarter

Adding and Subtracting Fractions

NF.B.3 Understand a fraction *a/b* with *a* > 1 as a sum of unit fractions (1/*b*).

a. Understand addition and subtraction of fractions as joining and separating parts referring to the same whole.

b. Decompose a fraction into a sum of fractions with the same denominator in more than one way
(e.g., 3/8 = 1/8 + 1/8+1/8; 3/8 = 2/8 + 1/8; 2 1/8 = 1 + 1/8 + or 2 1/8 = 8/8 + 8/8 + 1/8).

c. Add and subtract mixed numbers with like denominators (e.g., by using properties of operations and the relationship between addition and subtraction and/or by replacing each mixed number with an equivalent fraction).

d. Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators.

Fourth Quarter

Multi-step Word Problems

4.OA.A.3 Solve multistep word problems using the four operations, including problems in which remainders must be interpreted. Understand how the remainder is a fraction of the divisor. Represent these problems using equations with a letter standing for the unknown quantity.

Decimal Fractions

4.NF.C.6 Use decimal notation for fractions with denominators 10 (tenths) or 100 (hundredths), and locate these decimals on a number line.

Area and Perimeter

4.MD.A.3 Apply the area and perimeter formulas for rectangles in mathematical problems and problems in real-world contexts including problems with unknown side lengths.

Units of Measurement and Data

4.MD.B.4 Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Solve problems involving addition and subtraction of fractions by using information presented in line plots.

- *Endurance- Knowledge and skills of value beyond a single date*

- *Leverage- Knowledge and skills valuable in multiple disciplines*

- *Readiness for the next level of learning- Knowledge and skills that are necessary for success in the next grade level or the next level of instruction*