Montezuma Elementary Sixth Grade Math Descriptors of Learning

Standard	***1st Quarter***	***2nd Quarter***	***3rd Quarter***	***4th Quarter***
Ratio	Complete a ratio/rate table by finding equivalent ratios and graph the ratios on a coordinate plane.	Make ratio/rate tables and use the tables to solve number stories and problems involving percent.	Make and use ratio/rate table to compare ratios.	Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.
Unit Rate	Solve problems by finding a unit rate. Solve simple rate problems involving unit rates by using a ratio/rate table.	Solve problems by finding a unit rate. Use unit rates in ratio/rate tables to solve simple rate problems.	Solve problems by finding a unit rate. Solve rate problems including those involving unit pricing. Translate between the unit rate a/b and the ratio a:b.	Solve unit rate problems including those involving unit pricing and constant speed. Understand the concept of a unit rate a/b associated with a ratio a:b.
Computation of Fractions	Represent and solve fraction addition, subtraction, multiplication, division word problems using visual models.	Interpret and solve word problems involving division of fractions by fractions using a preferred strategy.	Interpret and solve word problems involving division of fractions by fractions using a preferred strategy. eg. By using visual fraction models and equations to represent the problem.	Ongoing practice and application.
Division of Multi-digit Numbers	Use division with multidigit numbers to find the mean of a data set.	Use standard algorithm to solve whole-number division problems.	Fluently divide multi-digit numbers using the standard algorithm	Ongoing practice and application.

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Computation of Decimals	Estimate addition, subtraction, multiplication, and division of whole numbers.	Add and subtract multi-digit decimals using standard algorithm. Multiply and divide multi-digit decimals using the standard algorithm.	Fluently add, subtract, multiply, and divide multi-digit decimals using standard algorithm for each operation.	Ongoing practice and application.
Greatest Common Factor	Find the GCF of two whole numbers less than or equal 100 by listing factors.	Use area models to describe the Distributive Property to solve real-world problems.	Use the distributive property to express the sum of two whole numbers 1-100. eg. 38+8 as 4(9+2)	Ongoing practice and application.
Absolute Value	No expectations of mastery at this point.	No expectations of mastery at this point.	Understand ordering and absolute value of rational numbers.	Ongoing practice and application.
Graphing and Solving Problems with a Coordinate Plane	Graph points in all quadrants of the coordinate plane.	Solve problems by graphing points in all quadrants of coordinate plane.	Use absolute value to find distances between points that share a coordinate.	Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane.
Equivalent Expressions	Apply the distributive property and associative property of multiplication of fractions.	Use the distributive property with whole numbers to obtain equivalent expressions.	Apply properties of operations to generate equivalent expressions.	Ongoing practice and application.
Using Variables to represent a number	No expectations of mastery at this point.	No expectations of mastery at this point.	Model basic problems by writing algebraic expressions involving variables.	Use variables to represent number and write expressions when solving a real-world or mathematical problem.

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Real-World Equations	Solve fraction-division problems in real-world context.	Solve fraction-division problems in real-world context.	Write number sentences to estimate the reasonableness of solutions for operations with decimals.	Solve real-world and mathematical problems by writing and solving equations. (Ex. a + b = c, ab=c)
Inequalities	No expectations of mastery at this point.	Find and graph solution sets for inequalities on number-line diagrams.	Identify inequalities based on solution sets.	Write an inequality to represent a constraint or condition of real-world or mathematical problem.
Area of Shapes	No expectations for mastery at this point.	Compose and decompose area models to represent the structure of the distributive property.	Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes.	Ongoing practice and application.
Volume	No expectations for mastery at this point.	No expectations for mastery at this point.	Solve problems involving finding the volume of right triangular prisms with fractional edge lengths.	Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths.
Nets of Three-Dimensional Figures	No expectations of mastery at this point.	No expectations of mastery at this point.	Represent three-dimensional rectangular and triangular prisms in the context of real-world and mathematical problems.	Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply techniques in the context of solving real-world and math problems.

Dot plots and Histograms	Describe, read, and draw the shapes of dot plots and histograms. Recognize that different distributions can have the same mean.	Understand and display a set of data collected to answer a statistical question with a dot plot or histogram.	On going practice and application.	On going practice and application.