

4th Grade Math Guide

First Nine Weeks

Mathematical Processes

0406.1.3 Determine the correct change from a transaction

(CC-Solve problems involving measurement and conversion of measurement from a larger unit to a smaller unit, use the four operations to solve word problems involving money)

*(CC-Solve problems involving measurement and conversion of measurement from a larger unit to a smaller unit, use the four operations to solve word problems involving distances and intervals of time)

Number and Operations

0406.2 .1 Read and write numbers from hundredths to hundred-thousands in numerals and in words

(CC-Generalize place value understanding for multi-digit whole numbers)

(CC- Compare two multi-digit numbers based on meanings of the digits in each place, using $>$, $=$, and $<$ symbols. Use place value to round)

0406.2.3 Identify the place value of a specified digit in a number and the quantity it represents

(CC-Generalize place value understanding for multi-digit whole numbers)

0406.2.4 Find multiples, and common multiples of two numbers

(CC-Gain familiarity with factors and multiples)

0406.2.9 Add and subtract decimals through hundredths

0406.2.10 Solve contextual problems using whole numbers

(CC-Use the four operations with whole numbers to solve problems)

(CC- Use place value understanding and properties of operations to perform multi-digit arithmetic)

0406.2.11 Solve problems using whole number multi-digit multiplication

(CC-Use the four operations with whole numbers to solve problems)

(CC- Use place value understanding and properties of operations to perform multi-digit arithmetic)

0406.2.12 Solve problems using whole number division with one -digit divisor

(CC-Use the four operations with whole numbers to solve problems)

(CC- Use place value understanding and properties of operations to perform multi-digit arithmetic)

Algebra

0406.3.1 Use letters and symbols to represent an unknown quantity and write a simple mathematical expression

(CC-Use the four operations with whole numbers to solve problems)

0406.3.2 Make generalizations about geometric and numeric patterns

(CC-Generate and analyze patterns)

0406.3.3 Represent and analyze patterns using words, function tables, and graphs

(CC-Generate and analyze patterns)

4th Grade Math Guide

Second Nine Weeks

Mathematical Processes

0406.1.1 Verify a conclusion using the commutative, associative and distributive properties

0406.1.2 Compare decimals using concrete and pictorial representations

(CC- Understand decimal notation for fractions, and compare decimal fractions)

Number and Operations

0406.2.2 Locate and place mixed numbers on the number line

0406.2.4 Find factors and common factors of two numbers

(CC-Gain familiarity with factors and multiples)

0406.2.5 Generate equivalent forms of common fractions and decimals and use them to compare size

(CC- Extend understanding of fraction equivalence and ordering)

(CC- Understand decimal notation for fractions, and compare decimal fractions)

0406.2.6 Use the symbols $<$, $>$ and $=$ to compare common fractions and decimals in both increasing and decreasing order

(CC- Understand decimal notation for fractions, and compare decimal fractions)

(CC-, Compare two fractions with different numerators and different denominators)

0406.2.7 Convert improper fractions into mixed numbers and/or decimals.

0406.2.8 Add and subtract proper fractions with like and unlike denominators and simplify the answer.

(CC-Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers)

(CC- Add and subtract mixed numbers with like denominators)

* (CC- apply an extend previous understandings of multiplication to multiply a fraction by a

whole number)

0406.2.10 Solve contextual problems using decimals.

(CC-Solve problems involving measurement and conversion of measurement from a larger unit to a smaller unit)

0406.2.12 Solve problems using whole number division with two- digit divisor

(CC-Use the four operations with whole numbers to solve problems)

4th Grade Math Guide

Third Nine Weeks

Mathematical Processes

0406.1.4 Compare objects with respect to a given geometric or physical attribute and select appropriate measurement

Number and Operations

0406.2.10 Solve contextual problems using fractions

(CC- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers)

(CC-Solve problems involving measurement and conversion of measurement from a larger unit to a smaller unit)

Geometry and Measurement

0406.4.1 Classify lines and line segments as parallel, perpendicular, or intersecting

(CC- Draw and identify lines and angles, and classify shapes by properties of their lines and angles)

0406.4.2 Graph and interpret points with whole number or letter coordinates on grids or in the first quadrant of

the coordinate plane

0406.4.3 Construct geometric figures with vertices at points on a coordinate grid

0406.4.4 Identify acute, obtuse, and right angles in 2-dimensional shapes

(CC- Draw and identify lines and angles, and classify shapes by properties of their lines and angles)

*(CC- geometric measurement: understand concepts of angle and measure angles)

0406.4.5 Identify attributes of simple and compound figures composed of 2- and 3- dimensional shapes

(CC- Draw and identify lines and angles, and classify shapes by properties of their lines and angles)

0406.4.6 Determine situations in which a highly accurate measurement is important.

0406.4.7 Determine appropriate size of unit of measurement in problem situations involving length, capacity or weight

(CC-Solve problems involving measurement and conversion of measurement from a larger unit to a smaller unit)

0406.4.8 Convert measurements within a single system that are common in daily life (e.g., hours and minutes, inches and feet, centimeters and meters, quarts and gallons, liters and milliliters)

(CC-Solve problems involving measurement and conversion of measurement from a larger unit to a smaller unit)

0406.2.9 Solve problems involving area and/or perimeter of rectangular figures

(CC-Solve problems involving measurement and conversion of measurement from a larger unit to a smaller unit)

0406.4.10 Identify images resulting from reflections, translations, or rotations

Data Analysis, Statistics, and Probability

0406.5.1 Depict data using various representations (e.g., tables, pictographs, line graphs, bar graphs).

*(Make a line plot to display a data set of measurement in fractions. Solve problems involving addition and subtraction of fractions by using information presented in line plots)

0406.5.2 Solve problems using estimation and comparison within a single set of data.

0406.5.2 Given a set of data or a graph, describe the distribution of the data using median, range, or mode.

0406.5.4 List all possible outcomes of a given situation or event

*new