

3rd Grade Math Guide

First Nine Weeks

Mathematical Processes

0306.1.1 Solve problems using a calendar

0306.1.2 Solve problems involving elapsed time

(CC- Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects)

0306.1.3 Determine the correct change from a transaction less than a dollar

Number and Operations

0306.2.1 Read and write numbers up to 10,000 in numerals and up to 1,000 in words

0306.2.2 Identify the place value of numbers in the ten-thousands, thousands, hundreds, tens, and ones positions

0306.2.3 Convert between expanded and standard form with whole numbers to 10,000.

0306.2.4 Compare and order numbers up to 10,000 using the words less than, greater than, and equal to, and the symbols $<$, $>$, $=$

(CC- Use place value understanding and properties of operations to perform multi-digit arithmetic, Use place value understanding to round whole numbers to the nearest 10 or 100)

0306.2.9 Solve contextual problems involving the addition (with and without regrouping) and subtraction (with and without regrouping) of two- and three-digit whole numbers

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

Algebra

0306.3.1 Verify a conclusion using algebraic properties (Add/Subtract)

Data, Probability, and Statistics

0306.5.1 Interpret a frequency table, bar graph, pictograph, or line plot

(CC- Represent and interpret data)

0306.5.2 Solve problems in which data is represented in tables or graph
(CC- Represent and interpret data)

0306.5.3 Make predictions based on various representations of data

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Second Nine Weeks

Mathematical Processes

0306.1.6 Identify and use vocabulary to describe attributes of two- and three-dimensional shapes

Number and Operations

0306.2.5 Identify various representations of multiplication
(CC- Represent and solve problems involving multiplication and division)

0306.2.6 Recall basic multiplication facts through 10 times 10
(CC-Multiply and divide within 100)

0306.2.7 Compute multiplication problems that involve multiples of ten using basic number facts
(CC-Represent and solve problems involving multiplication and division)
(CC- Use place value understanding and properties of operations to perform multi-digit arithmetic)

Algebra

0306.3.1 Verify a conclusion using algebraic properties (Multiplication)
(CC- Understand properties of multiplication and the relationship between multiplication and division)

0306.3.2 Express mathematical relationships using number sentences/equations. (Multiplication)
(CC- Represent and solve problems involving multiplication and division)

0306.3.3 Find the missing values in simple multiplication equations
(CC- Represent and solve problems involving multiplication and division)

0306.3.4 Describe or extend (including finding missing terms) geometric and numeric patterns
(CC- Solve problems involving the four operations, and identify and explain patterns in arithmetic)

Geometry and Measurement

0306.4.1 Recognize polygons and be able to identify examples based on geometric definitions. (lines & angles)
(CC-Reason with shapes and their attributes)
(CC- Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole.)

0306.4.2 Determine if two figures are congruent based on size and shape

0306.4.3 Identify the line of symmetry in a two-dimensional design or shape

0306.4.4 Calculate the perimeter of shapes made from polygons

(CC-Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.)

(CC- Geometric measurement: understand concepts of area and relate area to multiplication and to addition.)

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Third Nine Weeks

Mathematical Processes

- 0306.1.4** Match the spoken, written, concrete, and pictorial representations of fractions with denominators up to ten
(CC- Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole.)
- 0306.1.5** Represent problems mathematically using diagrams, numbers, and symbolic expressions (multiplication array)
(CC- Represent and solve problems involving multiplication and division)
- 0306.1.7** Select appropriate units and tools to solve problems involving measures
(CC- Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects)
- 0306.1.8** Express answers clearly in verbal, numerical, or graphical (bar and picture) form, using units when appropriate

Number and Operations

- 0306.2.5** Identify various representations of division
(CC- Represent and solve problems involving multiplication and division)
- 0306.2.6** Recall basic multiplication facts through 10 times 10 and the related division facts
(CC-Multiply and divide within 100)
- 0306.2.8** Solve problems that involve the inverse relationship between multiplication and division
(CC- Understand properties of multiplication and the relationship between multiplication and division)
- 0306.2.10** Identify equivalent fractions given by various representations
(CC-Develop understanding of fractions as numbers)
- 0306.2.11** Recognize and use different interpretations of fractions
- 0306.2.12** Name fractions in various contexts that are less than, equal to, or greater than one
(CC-Develop understanding of fractions as numbers)
- 0306.2.13** Recognize, compare, and order fractions (benchmark fractions, common numerators, or common denominators)
(CC-Develop understanding of fractions as numbers)

0306.2.14 Add and subtract fractions with like denominators

Algebra

0306.3.1 Verify a conclusion using algebraic properties (Division)

(CC- Understand properties of multiplication and the relationship between multiplication and division)

0306.3.2 Express mathematical relationships using number sentences/equations (Division)

(CC- Represent and solve problems involving multiplication and division)

0306.3.3 Find the missing values in simple division equations

(CC- Represent and solve problems involving multiplication and division)

Geometry and Measurement

0306.4.5 Choose reasonable units of measure, estimate common measurements using benchmarks, and use appropriate tools to make measurements

(CC- Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects)

0306.4.6 Measure length to the nearest centimeter or half inch

(CC- Represent and interpret data, using ruler marked with halves and fourths of an inch)

0306.4.7 Solve problems requiring the addition and subtraction of lengths