

Riverdeep Destination Math
Aligned to Alaska Math Grade Level Expectations
March 2007



Alaska Math Academic Content Standards	Destination Math
FOURTH GRADE	
Content Standard A: Mathematical facts, concepts, principles, and theories	
Numeration: Understand and use numeration	
Understanding Numbers: The student demonstrates conceptual understanding of whole numbers to ten thousands by	
[4] N-1 reading, writing, ordering, or counting (M1.2.1)	Course II: <ul style="list-style-type: none"> Module: Number Sense Unit: Numbers to 999 Session: Place Value: Tens and Ones
[4] N-2 modeling (base ten blocks) or identifying place value positions to ten thousands (M1.2.2)	Course II: <ul style="list-style-type: none"> Module: Number Sense Unit: Numbers to 999 Session: Place Value: Tens and Ones Module: Number Sense Unit: Numbers to 999 Session: Place Value: Hundreds, Tens, and Ones Module: Number Sense Unit: Numbers to 9,999 Session: Place Value: Thousands, Hundreds, Tens, and Ones
[4] N-3 converting between whole numbers expressed in expanded notation and standard form (M1.2.4)	Course II: <ul style="list-style-type: none"> Module: Number Sense Unit: Numbers to 999 Session: Expanded Form and Equivalent Representations of a Number
Understanding Numbers: The student demonstrates conceptual understanding of fractions with denominators 2 through 12 by	
[4] N-4 identifying, describing with explanations, or illustrating equal parts of a whole, a region, or a set (using models) (M1.2.4)	Course II: <ul style="list-style-type: none"> Module: Operations with Numbers Unit: Division Session: Fractional Parts Course III: <ul style="list-style-type: none"> Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions
[4] N-5 identifying, describing with explanations, or illustrating equivalent fractions or mixed numbers (M1.2.4 & M3.2.5)	Course III: <ul style="list-style-type: none"> Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions
Understanding Meaning of Operations: The student demonstrates conceptual understanding of mathematical operations by	
[4] N-6 using models, explanations, number lines, or real-life situations describing or illustrating the processes of multiplication (M1.2.3)	Course II: <ul style="list-style-type: none"> Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication Course III: <ul style="list-style-type: none"> Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers Module: Fractions Unit: Multiplication and Division Session: Finding Products Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals

1 *Destination Math does not align to all standards. Those standards are not shown on this document. This document is a correlation of Destination Math, to the Alaska Grade Level Expectations 2006.

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[4] N-7 using models, explanations, number lines, or real-life situations describing or illustrating the relationship between multiplication and addition (M1.2.3)	Course II: <ul style="list-style-type: none"> Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays
[4] N-8 using models, explanations, number lines, or real-life situations describing or illustrating the relationship between multiplication and division (M1.2.3)	Course II: <ul style="list-style-type: none"> Module: Operations with Numbers Unit: Division Session: Meaning of Division
[4] N-9 using models, explanations, number lines, or real-life situations describing or illustrating the process of adding or subtracting fractions with like denominators (2 to 12) (M1.2.5)	Course III: <ul style="list-style-type: none"> Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators
Number Theory: The student demonstrates conceptual understanding of number theory by	
[4] N-10 describing or illustrating identity property of multiplication (M1.2.7)	Course III: <ul style="list-style-type: none"> Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors Module: Numbers and Number Sense Unit: Numbers as Factors Session: Prime and Composite Numbers
[4] N-11 modeling (with manipulatives) and explaining commutative property of multiplication (M1.2.7)	Course II: <ul style="list-style-type: none"> Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties Course III: <ul style="list-style-type: none"> Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers
[4] N-12 identifying or listing factors and multiples of a number (M1.2.6)	Course III: <ul style="list-style-type: none"> Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors Module: Numbers and Number Sense Unit: Numbers as Factors Session: Prime and Composite Numbers Module: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors
Measurement: Select and use systems, units, and tools of measurement	
Measurable Attributes: The student demonstrates understanding of measurable attributes by	
[4] MEA-2 estimating temperature (degree Celsius or Fahrenheit) or weight (pounds or kilograms) to the nearest unit (M2.2.1)	Course II: <ul style="list-style-type: none"> Module: Geometry and Measurement Unit: Measurement Session: Temperature
[4] MEA-3 identifying or using equivalent measures for length (inch, foot, yard: 12 inches = 1 foot, 3 feet = 1 yard, 36 inches = 1 yard; centimeter, meter: 100 centimeters = 1 meter) (M2.2.2)	Course II: <ul style="list-style-type: none"> Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties
[4] MEA-4 selecting an appropriate unit of metric measurement to estimate length, weight or temperature (M2.2.1)	Course II: <ul style="list-style-type: none"> Module: Geometry and Measurement Unit: Measurement Session: Temperature
Measurement Techniques: The student demonstrates ability to use measurement techniques using pictorial representations [or manipulatives L] in real world contexts by	
[4] MEA-6 telling time in 5 minute increments using analog clocks (M2.2.5)	Course II: <ul style="list-style-type: none"> Module: Geometry and Measurement Unit: Measurement Session: Time
[4] MEA-7 counting back change from \$5.00 (M2.2.6)	Course II: <ul style="list-style-type: none"> MSC2: Module: Geometry and Measurement Unit:

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	Measurement Session: Money
[4] MEA-8 determining possible combinations of coins and bills to given amounts (M2.2.6)	Course II: <ul style="list-style-type: none"> MSC2: Module: Geometry and Measurement Unit: Measurement Session: Money
Estimation and Computation: Perform basic arithmetic functions, make reasoned estimates, and select and use appropriate methods or tools	
Estimation: The student determines reasonable answers to real-life situations, paper/pencil computations, or calculator results by	
[4] E&C-1 identifying or using a variety of strategies (e.g., rounding to appropriate place value, multiplying by powers of ten, using front-end estimation) to estimate the results of whole number addition or subtraction computations to 10,000, or simple multiplication or division (M3.2.1)	Course II: <ul style="list-style-type: none"> Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Sums less than 1,000 Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Differences within 1,000 Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Differences within 9,999 Course III: <ul style="list-style-type: none"> Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division
Computation: The student accurately solves problems (including real-world situations) involving	
[4] E&C-2 recalling basic multiplication facts, products to 100, and corresponding division facts efficiently (M3.2.2)	Course II: <ul style="list-style-type: none"> Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication Module: Operations with Numbers Unit: Multiplication Session: Finding Products Less than 100 Module: Operations with Numbers Unit: Division Session: Dividing by a 1-digit Number Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties
[4] E&C-3 adding or subtracting three digit whole numbers (M3.2.3)	Course II: <ul style="list-style-type: none"> Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Sums less than 1,000 Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Differences within 1,000
[4] E&C-4 multiplying two-digit numbers by single-digit numbers (M3.2.4)	Course II: <ul style="list-style-type: none"> Module: Operations with Numbers Unit: Multiplication Session: Finding Products Less than 100 Course III: <ul style="list-style-type: none"> Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers
[4] E&C-5 adding fractions with like denominators to 12 (M3.2.3)	Course III: <ul style="list-style-type: none"> Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators
Functions and Relationships: Represent, analyze, and use patterns, relations, and functions	
Describing Patterns and Functions: The student demonstrates conceptual understanding of functions, patterns, or sequences by	

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[4] F&R-1 extending patterns that use addition, subtraction, multiplication, or symbols, up to 10 terms, represented by models (function machine), tables, sequences, or in problem situations (M4.2.1)	<p>Course II:</p> <ul style="list-style-type: none"> Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication
[4] F&R-2 using rules to express the generalization of a pattern using words, lists, or tables (M4.2.4)	<p>Course II:</p> <ul style="list-style-type: none"> Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication
[4] F&R-3 using manipulatives, including a calculator, as tools when describing, extending, or representing a number sequence (M4.2.1 &M4.2.3)	<p>Course II:</p> <ul style="list-style-type: none"> Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication
Modeling and Solving Equations and Inequalities: The student demonstrates algebraic thinking by	
[4] F&R-4 using an open number sentence (addition, subtraction or multiplication) to solve for an unknown represented by a box or circle (e.g., $9 \bullet = 36$, $\bullet 8 = 56$, $3 \bullet 6 =$) (M4.2.5)	<p>Course II:</p> <ul style="list-style-type: none"> Module: Operations with Numbers Unit: Division Session: Meaning of Division Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties <p>Course III:</p> <ul style="list-style-type: none"> Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors
Geometry: Construct, transform, and analyze geometric figures.	
Geometric Relationships: The student demonstrates an understanding of geometric relationships by	
[4] G-1 using the attributes and properties of angles to identify and compare triangles (acute, right, or obtuse) and regular polygons (M5.2.1)	<p>Course III:</p> <ul style="list-style-type: none"> Module: Geometry Unit: Measurement Session: Triangles Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids
[4] G-2 using the attributes and properties of solid figures (edges, vertices, or the number or shape of faces) to model, identify, compare, or describe solid figures (cubes, cylinders, rectangular prisms, or spheres) (e.g., cans, dice, boxes, balls) (M5.2.2)	<p>Course II:</p> <ul style="list-style-type: none"> Module: Geometry and Measurement Unit: Geometry Session: Volume
Similarity, Congruence, Symmetry, and Transformation of Shapes: The student demonstrates conceptual understanding of similarity, congruence, symmetry, or transformations of shapes by	
[4] G-3 identifying or drawing all lines of symmetry to identify figures that are symmetrical (M5.2.3)	<p>Course III:</p> <ul style="list-style-type: none"> Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations
[4] G-4 identifying shapes that are congruent (M5.2.3)	<p>Course III:</p> <ul style="list-style-type: none"> Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids
[4] G-5 illustrating or identifying the results	<p>Course III:</p>

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of transformations (turns) of polygons by continuing a given pattern (M5.2.5)	<ul style="list-style-type: none"> Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations
Perimeter, Area, Volume, and Surface Area: The student solves problems using perimeter or area by	
[4] G-6 estimating or determining area or perimeter of rectangles, squares and irregular shapes on grids with a key or ruler (M5.2.4)	Course III: <ul style="list-style-type: none"> Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane
Construction: The student demonstrates a conceptual understanding of geometric drawings or constructions by	
[4] G-8 [identifying or drawing parallel or intersecting line segments L] (M5.2.7)	Course III: <ul style="list-style-type: none"> Module: Geometry Unit: Measurement Session: Rectangles and Squares Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids
Statistics and Probability: Formulate questions, gather and interpret data, and make predictions	
Data Display: The student demonstrates an ability to classify and organize data by	
[4] S&P-1 designing an investigation and collecting, organizing or displaying, using appropriate scale, data in real-world problems (e.g., social studies, friends, or school), using bar graphs, tables, charts, or diagrams with whole numbers up to 25 (M6.2.1 & M6.2.2)	Course III: <ul style="list-style-type: none"> Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data
Analysis and Central Tendency: The student demonstrates an ability to analyze data (comparing, explaining, interpreting, evaluating or drawing or justifying conclusions by	
[4] S&P-2 using information from a variety of displays (tables, bar graphs, or Venn diagrams) (M6.2.2)	Course III: <ul style="list-style-type: none"> Module: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors Module: Decimals Unit: Introduction Session: Ordering and Rounding Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data
[4] S&P-3 using mode or range with up to 5 pieces of data with a value of 10 or less each (M6.2.3)	Course III: <ul style="list-style-type: none"> Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data
Probability: The student demonstrates a conceptual understanding of probability and counting techniques by	
[4] S&P-4 predicting or explaining the probability of all possible outcomes in a simple experiment (e.g., spinners, dice, coins) (M6.2.4)	Course III: <ul style="list-style-type: none"> Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance
[4] S&P-5 determining possible combinations in a given situation involving up to 3 items (e.g., how many ways can you choose two fruits out of a basket containing oranges and bananas? - three ways: two bananas; one orange and one banana; and two oranges) (M6.2.5)	Course III: <ul style="list-style-type: none"> Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance
Content Standards B, C, D, and E: Process skills and abilities	
Applying conceptual knowledge and skills as designated in all strands of Content Standard A by problem solving, communicating, reasoning, and making connections	

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Problem Solving: Understand and be able to select and use a variety of problem-solving strategies: The student demonstrates an ability to problem solve by	
<p>[4] PS-1 selecting and applying appropriate strategy (e.g., lists, guess and check; extended patterns) to solve a variety of problems (M7.2.2)</p>	<p>Course III:</p> <ul style="list-style-type: none"> • Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums • Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences Between Large Numbers • Module: Operations with Numbers Unit: The Integers Session: Differences Between Integers • Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers • Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division • Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators • Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators • Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators • Module: Fractions Unit: Multiplication and Division Session: Finding Products • Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders • Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals • Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals • Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals • Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers
<p>[4] PS-2 explaining and verifying results of an original problem and applying what was learned to new situations (M7.2.3)</p>	<p>Course III:</p> <ul style="list-style-type: none"> • Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums • Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences Between Large Numbers • Module: Operations with Numbers Unit: The Integers Session: Integer Sums • Module: Operations with Numbers Unit: The Integers Session: Differences Between Integers • Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers • Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division • Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators • Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals

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	<ul style="list-style-type: none"> • Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals • Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals • Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers
Communication: Form and use appropriate methods to define and explain mathematical relationships: The student communicates his or her mathematical thinking by	
<p>[4] PS-3 representing problems using mathematical language including concrete, pictorial, and/or symbolic representation; or by organizing and communicating mathematical problem solving strategies and solutions to problems (M8.2.1, M8.2.2, & M8.2.3)</p>	<p>Course III:</p> <ul style="list-style-type: none"> • Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums • Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences Between Large Numbers • Module: Operations with Numbers Unit: The Integers Session: Integer Sums • Module: Operations with Numbers Unit: The Integers Session: Differences Between Integers • Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers • Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division • Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors • Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators • Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators • Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators • Module: Fractions Unit: Multiplication and Division Session: Finding Products • Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders • Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals • Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals • Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals • Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers
Reasoning: Use logic and reason to solve mathematical problems: The student demonstrates an ability to use logic and reason by	
<p>[4] PS-4 drawing conclusions about mathematical problems (given a rule or generalization, determine whether the example fits) or justifying answers and mathematical strategies (M9.2.1, M9.2.2, & M9.2.3)</p>	<p>Course III:</p> <ul style="list-style-type: none"> • Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums • Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences Between Large Numbers • Module: Operations with Numbers Unit: The Integers

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	<ul style="list-style-type: none"> Session: Integer Sums • Module: Operations with Numbers Unit: The Integers Session: Differences Between Integers • Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers • Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division • Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators • Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals • Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals • Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals • Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers
<p>Connections: Apply mathematical concepts and processes to situations within and outside of school.: The student understands and applies mathematical skills and processes across the content strands by</p>	
<p>[4] PS-5 using real-world contexts such as social studies, friends, and school (M10.2.1 & M10.2.2)</p>	<p>Course III:</p> <ul style="list-style-type: none"> • Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums • Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences Between Large Numbers • Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers • Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division • Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors • Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators • Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators • Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals • Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals • Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers • Module: Geometry Unit: Measurement Session: Triangles • Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids