## INNOVATION IN EDUCATION

## Math in Focus

December 2010


DESTINATION MATH

| Math in Focus | Destination Math |
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| Grade 5 |  |
| Number and Operations |  |
| Sets and Numbers |  |
| Explore negative numbers in context. | Course III: <br> - Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Negative Whole Numbers |
| Number Representation |  |
| Understand place value concepts through millions | Course III: <br> - Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million |
| Count |  |
| Count by hundred thousands and millions. | Course III: <br> - Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million |
| Compare and Order |  |
| Compare and order whole numbers to 10,000,000. | Course III: <br> - Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers |
| Place Value |  |
| Express numbers to 10,000,000 in various forms. | Course III: <br> - Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million |
| Fraction Concepts |  |
| Convert fractions to decimals. | Course III: <br> - Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths <br> - Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents |
| Relate fractions and division expressions. | Course III: <br> - Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions <br> - Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions |
| Decimal Concepts |  |
| Model decimals using thousandths. | Course III: <br> - Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths |
| Understand place value concepts through thousandths. | Course III: <br> - Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths |
| Convert decimals to fractions. | Course III: <br> - Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths <br> - Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents |

2 *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 Math in Focus.

| Use ratios to solve problems | Course III: <br> - Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents |
| :---: | :---: |
| Find equivalent ratios. | Course III: <br> - Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents |
| Solve problems with percent. | Course III: <br> - Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents |
| Convert fractions to percents. | Course III: <br> - Module: Decimals Unit: Introduction Session: <br> Ratios, Decimals, and Percents |
| Whole Number Computation: Addition and Subtraction Real-World Problems |  |
| Solve multi-digit addition and subtraction problems by using a bar model. | Course III: <br> - Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums <br> - Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences Between Large Numbers |
| Whole Number Computation: Multiplication and Division Concepts |  |
| Use the $\times, \div$, and $=$ symbols to represent multiplication and division situations | Course III: <br> - Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers <br> - Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division <br> - Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors |
| Whole Number Computation: Multiplication and Division Algorithms |  |
| Multiply multi-digit numbers. | Course III: <br> - Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers |
| Find quotients involving multi-digit dividends. | Course III: <br> - Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers |
| Whole Number Computation: Multiplication and Division Real-World Problems |  |
| Solve multiplication and division problems | Course III: <br> - Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers <br> - Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division <br> - Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors |

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| Select the most useful form of the quotient and interpret the remainder. | Course III: <br> - Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division <br> - Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors |
| :---: | :---: |
| Fraction Computation |  |
| Add and subtract unlike fraction and mixed numbers. | Course III: <br> - Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators |
| Multiply proper fractions, improper fractions, mixed numbers and whole numbers. | Course III: <br> - Module: Fractions Unit: Multiplication and Division Session: Finding Products |
| Divide fractions by whole numbers. | Course III: <br> - Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders |
| Solve word problems with addition, subtraction, multiplication, and division of fractions. | Course III: <br> - Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators <br> - Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators <br> - Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators <br> - Module: Fractions Unit: Multiplication and Division Session: Finding Products <br> - Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders |
| Decimal Computation |  |
| Add and subtract decimals. | Course III: <br> - Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals <br> - Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals |
| Multiply and divide decimals by whole numbers. | Course III: <br> - Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals <br> - Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers |
| Solve problems with multiplication and division of decimals. | Course III: <br> - Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals <br> - Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers |

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| Use estimation and mental math to estimate sums, differences, products and quotients. | Course III: <br> - Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums <br> - Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division <br> - Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators <br> - Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators <br> - Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators <br> - Module: Fractions Unit: Multiplication and Division Session: Finding Products <br> - Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders <br> - Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals <br> - Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals <br> - Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals <br> - Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers |
| :---: | :---: |
| Estimate sums and differences with fractions and decimals. | Course III: <br> - Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators <br> - Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators <br> - Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators <br> - Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals <br> - Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals |
| Estimate products and quotients with decimals. | Course III: <br> - Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals <br> - Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers |
| Algebra |  |
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Write and solve number sentences and equations for one- and two step real-world problems

Course III:

- 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

| Write and solve equations. | Course III: <br> - Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers <br> - Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division <br> - Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors <br> - Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators <br> - Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators <br> - Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators <br> - Module: Fractions Unit: Multiplication and Division Session: Finding Products <br> - Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders <br> - Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals <br> - Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals <br> - Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals <br> - Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers |
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| Equality and Inequality |  |
| Understand equality and inequality. | Course III: <br> - Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers <br> - Module: Fractions Unit: Proper and Improper Fractions Session: Ordering and Rounding Fractions <br> - Module: Decimals Unit: Introduction Session: Ordering and Rounding |
| Geometry |  |
| Lines and Angles |  |
| Work with angles on a straight line. | Course III: <br> - Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles |
| Work with angles at a point. | Course III: <br> - Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles |
| Two- Dimensional Shapes |  |
| Apply the properties of right, isosceles, and equilateral triangles. | Course III: <br> - Module: Geometry Unit: Measurement Session: Triangles |

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| Apply the sum of the angle measures of a triangle. | Course III: <br> - Module: Geometry Unit: Measurement Session: Triangles |
| :---: | :---: |
| Apply the properties of a parallelogram, rhombus, and trapezoid. | Course III: <br> - Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids |
| Find the area of a triangle. | Course III: <br> - Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids |
| Coordinate Geometry |  |
| Plot points on a coordinate grid. | Course III: <br> - Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane |
| Measurement |  |
| Angles |  |
| Apply the idea that the sum of angles on a straight line is $180^{\circ}$. | Course III: <br> - Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles |
| Area |  |
| Find the area of triangles. | Course III: <br> - Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids |
| Probability |  |
| Outcomes |  |
| Determine experimental probability of an outcome. | Course III: <br> - Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance |
| Expressing Probability |  |
| Compare the results of an experiment with theoretical probability. | Course III: <br> - Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance |
| Find all possible combinations by listing, making a tree diagram, and multiplying. | Course III: <br> - Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance |
| Problem Solving |  |
| Build Skills Through Problem Solving |  |

Build skills in multiplication; division; fraction concepts, decimals, ratios, and percents; data analysis, and measurement through problem solving.

Course III:

- 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
- Module: Geometry Unit: Measurement Session: Rectangles and Squares
- Module: Geometry Unit: Measurement Session: Triangles
- Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids
- Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data

Solve Real-World Problems

Solve real-world problems involving multiplication; division; concepts with fractions, decimals, ratios, and percents; data analysis, and measurement.

Course III:

- 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
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- Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data


## Use Appropriate Strategies and Thinking Skills to Solve Problems

| Use appropriate strategies to solve real-world problems. | Course III: <br> - Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers <br> - Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division <br> - Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors <br> - Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators <br> - Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators <br> - Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators <br> - Module: Fractions Unit: Multiplication and Division Session: Finding Products <br> - Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders <br> - Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals <br> - Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals <br> - Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals <br> - Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers <br> - Module: Geometry Unit: Measurement Session: Rectangles and Squares <br> - Module: Geometry Unit: Measurement Session: Triangles <br> - Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids <br> - Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data |
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| Identify, Demonstrate and Explain Mathematical Proof |  |
| Explain the relationships among area formulas of different polygons. | Course III: <br> - Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids |
| Compare the results of an experiment to validate the use of theoretical probability. | Course III: <br> - Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance |
| Use a Variety of Reasoning Skills |  |
| Explore the relationship among lists, tree diagrams, and multiplication to calculate combinations. | Course III: <br> - Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance |

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$\left.\begin{array}{|l|l|}\hline \begin{array}{l}\text { Use properties of multiplication (including the } \\ \text { distributive property) in estimation and mental math. }\end{array} & \begin{array}{c}\text { Course III: } \\ \text { - }\end{array} \\ \hline \text { Module: Operations with Numbers Unit: } \\ \text { Multiplication and Division of Whole Numbers } \\ \text { Session: Two-Digit Multipliers }\end{array}\right]$

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| Solve real-world problems involving multiplication; division; fraction, decimal, ratio, and percent concepts; data analysis, and measurement. | Course III: <br> - Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers <br> - Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division <br> - Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors <br> - Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators <br> - Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators <br> - Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators <br> - Module: Fractions Unit: Multiplication and Division Session: Finding Products <br> - Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders <br> - Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals <br> - Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals <br> - Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals <br> - Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers <br> - Module: Geometry Unit: Measurement Session: Rectangles and Squares <br> - Module: Geometry Unit: Measurement Session: Triangles <br> - Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids <br> - Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data |
| :---: | :---: |
| Compare experimental results and theoretical probability. | Course III: <br> - Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance |
| Representation |  |
| Use Representations to Model, Organize, and Record |  |
| Explore negative numbers in context. | Course III: <br> - Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Negative Whole Numbers |

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| Express numbers to 10,000,000 in various forms. | Course III: <br> - Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million |
| :---: | :---: |
| Find equivalent ratios. | Course III: <br> - Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents |
| Explore the use of letters as variables in expressions and inequalities. |  |
| Convert fractions and decimals to percents. | Course III: <br> - Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents |
| Represent combinations with lists, tree diagrams, and multiplication. | Course III: <br> - Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance |
| Select and Apply Representations to Model Problems |  |
| Translate between fractions and percents. | Course III: <br> - Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents |
| Select the most useful form of the quotient. | Course III: <br> - Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents |

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