

# Math Mammoth Blue series

## List of Lessons

### Addition 1

Two Groups and a Total  
Learn Symbols + and =  
Addition Practice 1  
Which is More?  
Missing Items  
Sums with 5  
Sums with 6  
Adding on a Number Line  
Sums with 7  
Sums with 8  
Adding Many Numbers  
Addition Practice 2  
Sums with 9  
Sums with 10  
Comparisons  
Review of Addition Facts

### Add and Subtract 2-A

Add Using “Just One More”  
A “Trick” with Nine and Eight  
Adding within 20  
Subtract to Ten  
Subtract Using Addition  
Review: Completing the Next Whole Ten  
Review: Going Over Ten  
Adding with 9  
Adding with 8  
Adding with 7  
Adding with 6  
Review Facts with 6, 7 and 8  
Difference and How Many More  
Number Rainbows - 11 and 12  
Fact Families - 11  
Fact Families - 12  
Number Rainbows - 13 and 14  
Fact Families - 13 and 14  
Fact Families - 15  
Fact Families - 16  
Fact Families - 17 and 18  
Review

### Subtraction 1

Subtraction is “Taking Away”  
Count Down to Subtract  
Subtraction and Addition in The Same Picture  
When Can You Subtract?  
Two Subtractions from One Addition  
Two Parts - One Total  
Fact Families  
How Many More?  
“How Many More” Problems and Difference  
“How Many More” Problems and Subtraction  
Subtracting More Than One Numbers  
Review  
Addition and Subtraction Facts with 4 and 5  
Addition and Subtraction Facts with 6  
Addition and Subtraction Facts with 7  
Addition and Subtraction Facts with 8  
Addition and Subtraction Facts with 9  
Addition and Subtraction Facts with 10  
Review - Facts with 6, 7, and 8  
Review - Facts with 9 and 10

### Add and Subtract 2-B

Adding Within the Same Ten  
Subtracting Within the Same Ten  
Add and Subtract Two-Digit Numbers  
Subtract from Whole Tens  
Doubling  
One-Half  
Pictographs  
Adding with Whole Tens  
Subtracting Whole Tens  
Completing the Next Ten  
Going Over Ten  
Add with Two-Digit Numbers Ending in 9  
Add a Two-Digit Number and  
a Single-Digit Number Mentally  
Regrouping with Tens  
Add in Columns Practice  
Mental Addition of Two-Digit Numbers  
Adding Three or Four Numbers Mentally  
Adding Three or Four Numbers in Columns  
Regrouping in Subtraction, Part 1  
Regrouping in Subtraction, Part 2  
Regrouping in Subtraction, Part 3  
Word Problems  
Mental Subtraction, Part 1  
Mental Subtraction, Part 2  
Review

## Measuring 1

Measuring Length  
Exploring Measuring  
Measuring Lines in Inches  
Inches and Half-Inches  
Measuring Lines in Centimeters  
Measuring to the Nearest Centimeter  
Some More Measuring  
Measuring to the Nearest Fourth-Inch  
Centimeters and Millimeters  
Line Plots and More Measuring  
Feet and Miles  
Feet, Yards and Miles  
Meters and Kilometers 1  
Meters and Kilometers 2  
Review 1  
Weight in Pounds  
Pounds and Ounces  
Weight in Kilograms  
Grams and Kilograms  
Cups, Pints, Quarts and Gallons  
Milliliters and Liters  
Review 2

## Place Value 1 - Tens and Ones

Counting in Groups of Ten  
Naming and Writing Numbers  
The “Teen” Numbers  
Building Numbers 11-40  
Building Numbers 41-100  
A 100-Chart  
Add and Subtract Whole Tens  
Practicing with Numbers  
Which Number is Greater?  
Numbers Beyond 100  
More Practice with Numbers  
Skip Counting Practice  
Rounding to the Nearest Ten  
Bar Graphs  
Tally Marks  
Regrouping: Make Another Ten from the Ones  
Review

## Place Value 2 - Hundreds

Three-Digit Numbers  
Hundreds on the Number Line  
Forming Numbers—and Breaking Them Apart  
Skip-Counting by Tens  
More Skip-Counting  
Which Number Is Greater?  
Comparing Numbers and Some Review  
Rounding to the Nearest Ten  
Rounding to the Nearest Hundred  
Bar Graphs and Pictographs  
Review

## Metric Measuring

Measuring Length  
Exploring Measuring  
Measuring Lines in Centimeters  
Measuring to the Nearest Centimeter  
Centimeter and Millimeters  
Meters and Kilometers 1  
Meters and Kilometers 2  
Metric Units for Measuring Length  
Weight in Kilograms  
Grams and Kilograms  
Metric Units of Weight  
Milliliters and Liters  
Metric Units of Volume  
Decimals in Measuring Units and More  
The Metric System  
Rounding and Estimating  
Measuring Temperature: Celsius  
Temperature Line Graphs  
Time Units  
Elapsed Time 1  
The 24-Hour Clock  
Elapsed Time 2  
Elapsed Time 3  
Review 1  
Review 2

## Place Value 3

Thousands  
Four-Digit Numbers and Place Value  
Which Number is Greater?  
Mental Adding and Subtracting  
Add Four-Digit Numbers with Regrouping  
Subtract Four-Digit Numbers with Regrouping  
Rounding to the Nearest Hundred  
Rounding  
Estimating  
Word Problems  
Review

## Australian Money

Five and Ten Cent Coins  
Twenty and Fifty Cent Coins  
Practising with Coins  
Practising Shopping  
Change  
Counting Coins Revision  
Revision - Coins  
Dollars  
Cent and Dollar Amounts  
Adding Money Amounts  
Dollars, Part 2  
Counting Change  
Making Change  
Mental Math and Money Problems  
Solving Money Problems  
Revision

## **British Money**

Counting 1p, 2p, and 5p Coins  
10p, 20p, and 50p Coins  
Practising with Coins  
Practising Shopping  
Change  
Counting Coins Revision  
Revision - Coins  
Pounds  
Pence and Pound Amounts  
Adding Money Amounts  
Pounds, Part 2  
Counting Change  
Working out the Change  
Mental Math and Money Problems  
Solving Money Problems  
Revision

## **Canadian Money**

Counting Dimes and Nickels  
Counting Dimes and Nickels 2  
Quarters  
Practicing with Money  
Change  
Counting Coins Review  
Review - Coins  
Adding Money Amounts  
Using the Half-Dollar  
Dollars  
Dollars 2  
Counting Change  
Making Change  
Mental Math and Money Problems  
Solving Money Problems  
Making Sense with No Cents  
Review

## **European Money**

Counting One, Two, and Five-Cent Coins  
Ten, Twenty, and Fifty-Cent Coins  
Practicing with Coins  
Practicing Shopping  
Change  
Counting Coins Review  
Review - Coins  
Euros  
Cents and Euro Amounts  
Adding Money Amounts  
Euros, Part 2  
Counting Change  
Making Change  
Mental Math and Money Problems  
Solving Money Problems  
Review

## **New Zealand Money**

Ten and Twenty-Cent Coins  
Ten, Twenty and Fifty-Cent Coins  
Cents and Dollar Amounts  
Dollars 1  
Practising with Coins  
Change  
Counting Coins Revision  
Dollars 2  
Making Sense with No Cents  
Adding Money Amounts  
Counting Change  
Making Change  
Mental Maths and Money Problems  
Solving Money Problems  
Revision

## **South African Money**

Five and Ten Cent Coins  
Twenty and Fifty Cent Coins  
Rand 1  
Practicing with Coins  
Practicing Shopping  
Change 1  
Revision Coins  
Counting Coins Revision  
Rand 2  
Change 2  
Counting Change  
Revision: Count Coins and Banknotes  
Finding the Change  
Mental Math and Money Problems  
Adding Money Amounts  
Solving Money Problems  
Revision

## **U.S. Money**

Counting Dimes, Nickels, and Cents  
Counting Dimes, Nickels, and Cents 2  
Quarters  
Practicing with Money  
Change  
Counting Coins Review  
Review - Coins  
Adding Money Amounts  
Using the Half-Dollar  
Dollars 1  
Dollars 2  
Counting Change  
Making Change  
Mental Math and Money Problems  
Solving Money Problems  
Review 1  
Review 2

## **Clock**

Whole and Half Hours  
Minutes and Half Hours  
Time Order  
AM and PM  
Review - Half Hours  
Minutes  
Minutes, Part 2  
Past and Till in Five-Minute Intervals  
How Many Hours Pass?  
Review: Reading the Clock  
Half and Quarter Hours  
Review: Till and Past  
How Many Minutes Pass  
More on Elapsed Time  
Practice  
Clock to the Minute  
Elapsed Time in Minutes  
The Calendar  
The Calendar: Weekdays and Months  
The Calendar: Dates  
Using the Calendar  
Changing Time Units  
Review 1  
Review 2

## **Multiplication 1**

Many Times the Same Group  
Multiplication and Addition  
Multiplying on a Number Line  
Multiplication as an Array  
Order of Operations 1  
Understanding Word Problems, Part 1  
Understanding Word Problems, Part 2  
Multiplication in Two Ways  
Order of Operations 2  
Multiplying by Zero  
How to Do Structured Oral Drilling  
Multiplication Table of 2  
Multiplication Table of 4  
Multiplication Table of 10  
Multiplication Table of 5  
More Practice and Review  
(Tables of 2, 4, 5, and 10)  
Multiplication Table of 3  
Multiplication Table of 6  
Multiplication Table of 11  
Multiplication Table of 9  
Multiplication Table of 7  
Multiplication Table of 8  
Multiplication Table of 12  
Review

## **Add and Subtract 3**

Add and Subtract Whole Hundreds  
Practice With Whole Hundreds  
Completing the Next Hundred  
Adding Whole Tens  
Subtracting Whole Tens  
Patterns and Problems  
Adding 3-Digit Numbers in Columns  
Regrouping 10 Tens as a Hundred  
Add in Columns: Regrouping Twice  
Review: Regrouping in Addition  
Regrouping One Ten As Ten Ones  
with 3-Digit Numbers  
Regrouping One Hundred As 10 Tens  
Review: Regrouping in Subtraction  
Regrouping Twice in Subtraction  
Regrouping Twice in Subtraction, Part 2  
Regrouping with Zero Tens  
Regrouping with Zero Tens, Part 2  
Mental Addition  
Review: Mental Subtraction  
More Mental Subtraction  
Ordinal Numbers and Roman Numerals  
More Mental Addition  
Mental Subtraction with Three-Digit Numbers  
Rounding 3-Digit Numbers to the Nearest Ten  
The Connection with Addition and Subtraction  
Mileage Chart  
Order of Operations  
Graphs  
Review

## **Division 1**

Division as Making Groups  
Division and Multiplication  
Division and Multiplication Facts  
Dividing Evenly Into Groups  
Division Word Problems  
Zero in Division  
Division as Repeated Subtraction  
Number Rules  
When Division Is Not Exact  
More Practice with the Remainder  
Divisibility  
Divisibility by 2, 5, 10, 3, and 4  
Fraction - Division Connection  
Review

## **Early Geometry**

Basic Shapes  
Playing with Basic Shapes  
Drawing Basic Shapes  
Practicing Basic Shapes and Patterns  
Shapes Review  
Shapes  
Right Angles  
Surprises with Shapes  
Making Shapes  
Rectangles and Squares  
Some Special Quadrilaterals  
Geometric Patterns  
Line Symmetry  
Perimeter  
Problems with Perimeter  
Getting Started with Area  
More About Area  
Multiplying by Whole Tens  
Area Units and Problems  
Area and Perimeter Problems  
More Area and Perimeter Problems  
Three-Dimensional Shapes  
Solids 1  
Solids 2  
Review 1  
Review 2  
Geometry Review

## **Add and Subtract 4**

Addition Review  
Adding in Columns  
Subtraction Review  
Subtract in Columns  
Patterns and Mental Math  
Patterns in Pascal's Triangle  
Bar Models in Addition and Subtraction  
Order of Operations  
Making Bar Graphs  
Line Graphs  
Rounding  
Estimating  
Money and Discounts  
Calculate and Estimate Money Amounts  
Review

## **Introduction to Fractions**

Halves and Quarters  
Some Fractions  
Understanding Fractions  
Fractions on a Number Line  
One Whole and Its Fractional Parts  
Mixed Numbers 1  
Mixed Numbers 2  
Comparing Fractions 1  
Comparing Fractions 2  
Comparing Fractions 3  
Comparing Fractions 4  
Equivalent Fractions 1  
Equivalent Fractions 2  
Adding Fractions and Mixed Numbers 1  
Adding Fractions and Mixed Numbers 2  
Subtracting Fractions and Mixed Numbers  
Multiplying Fractions by Whole Numbers  
Practicing with Fractions  
Fractions Review  
Review

## **Multiplication 2**

Understanding Multiplication  
Multiplication Tables Review  
Scales Problems  
Multiplying by Whole Tens and Hundreds  
Multiply in Parts 1  
Multiply in Parts 2  
More Practice  
Estimating in Multiplication  
Multiply in Columns—the Easy Way  
Multiply in Columns—the Easy Way, Part 2  
Multiplying in Columns, the Standard Way  
Multiply in Columns, Practice  
Order of Operations Again  
Money and Change  
So Many of the Same Thing  
Multiplying 2-Digit Numbers in Parts  
Multiply by Whole Tens in Columns  
Multiplying in Parts: Another Way  
The Standard Multiplication Algorithm  
with a Two-Digit Multiplier  
Review

## **Division 2**

Review of Division  
Division Terms and Division with Zero  
Dividing with Whole Tens and Hundreds  
Finding Fractional Parts with Division  
Order of Operations and Division  
The Remainder, Part 1  
The Remainder, Part 2  
Long Division 1  
Long Division 2  
Long Division 3  
Long Division with 4-Digit Numbers  
More Long Division  
Remainder Problems  
Long Division with Money  
Long Division Crossword Puzzle  
Average  
Problems with Fractional Parts  
Problems to Solve  
Divisibility  
Prime Numbers  
Finding Factors  
Review

## **Measuring 2**

Time Units  
Elapsed Time 1  
The 24-Hour Clock  
Elapsed Time 2  
Elapsed Time 3  
Measuring Temperature: Celsius  
Measuring Temperature: Fahrenheit  
Temperature Line Graphs  
Measuring Length  
Measuring in Inches  
More Measuring in Inches and Centimeters  
Feet, Yards, and Miles  
Metric Units for Measuring Length  
Customary Units of Weight  
Metric Units of Weight  
Customary Units of Volume  
Metric Units of Volume  
Review 1  
Decimals in Measuring Units and More  
Rounding and Estimating  
The Metric System  
Converting Between Customary Units  
of Measurement  
Fractions and Decimals in Measuring Units  
Review 2  
Convert Customary Measuring Units  
Convert Metric Measuring Units  
Convert Between Customary and Metric  
Review 3  
Using Rates to Convert Measuring Units  
Review 4

## **Multiplication and Division 3**

Warm-up: Mental Math  
Order of Operations and Equations  
Review: Addition and Subtraction  
Review: Multiplication and Division  
Multiplying in Parts  
The Multiplication Algorithm  
More Multiplication  
Long Division  
A Two-Digit Divisor 1  
A Two-Digit Divisor 2  
Long Division and Repeated Subtraction  
Balance Problems and Equations  
More Equations  
Divisibility Rules  
Review: Factors and Primes  
Prime Factorization  
The Sieve of Eratosthenes  
and Prime Factorization  
Using Factoring When Simplifying  
Fractions  
The Greatest Common Factor (GCF)  
Factoring Sums  
The Least Common Multiple (LCM)  
Introduction to Ratios  
Review 1  
Review 2

## **Place Value 4**

Thousands  
At the Edge of Whole Thousands  
More Thousands  
Practicing with Thousands  
Place Value with Thousands  
Comparing with Thousands  
Adding and Subtracting Big Numbers  
Rounding and Estimating Large Numbers  
Multiples of 10, 100 and 1000  
Multiplying by Whole Tens and Hundreds  
Review

## **Place Value 5**

A Little Bit of Millions  
Place Value up to Billions  
Exponents and Powers  
Place Value  
Adding and Subtracting Large Numbers  
Rounding  
The Calculator  
When to Use the Calculator  
Review

## **Decimals 1**

Decimal Numbers—Tenths  
Adding and Subtracting with Tenths  
Two Decimal Digits—Hundredths  
Adding and Subtracting Decimals in Columns  
Add and Subtract Decimals Mentally  
Using Decimals with Measuring Units  
Using Mental Math with Money  
Review

## **Fractions 1**

Fraction Terminology  
Review: Mixed Numbers  
Adding Mixed Numbers  
Subtracting Mixed Numbers 1  
Subtracting Mixed Numbers 2  
Equivalent Fractions 1  
Equivalent Fractions 2  
Adding and Subtracting Unlike Fractions  
Finding the (Least) Common Denominator  
Add and Subtract: More Practice  
Adding and Subtracting Mixed Numbers  
Comparing Fractions  
Measuring in Inches  
Review

## **Data and Graphs**

Reading Graphs and Charts  
Bar Graphs and Pictographs  
More Practice with Bar Graphs  
and Pictographs  
Making Bar Graphs 1  
Making Bar Graphs 2  
Making Histograms  
Double Bar Graphs  
Line Graphs 1  
Line Graphs 2  
Temperature Line Graphs  
Reading Line Graphs  
Double and Triple Line Graphs  
Graphs: More Practice  
Average  
Average (Mean)  
Mean, Mode and Bar Graphs  
Circle Graphs  
Review

## **Decimals 2**

Introduction  
Review: Tenths and Hundredths  
More Decimals: Thousandths  
Decimals on a Number Line  
Add and Subtract Decimals—Mental Math  
Add and Subtract Decimals in Columns  
Comparing Decimals  
Rounding Decimals  
Multiply a Decimal by a Whole Number  
More on Multiplying Decimals  
Multiplying Decimals by Decimals  
More Practice and Review  
Divide Decimals by Whole Numbers 1  
Divide Decimals by Whole Numbers 2  
Review 1  
Multiply Decimals by Decimals  
Multiplication as Scaling  
Decimal Multiplication—More Practice  
Dividing Decimals—Mental Math  
More Division with Decimals  
Multiply and Divide by Powers of Ten 1  
Multiply and Divide by Powers of Ten 2 The Metric  
System, Part 1  
The Metric System, Part 2  
Divide Decimals by Decimals 1  
Divide Decimals by Decimals 2  
Converting Between Customary Units of Measurement  
Rounding Measurements  
Problem Solving  
Review 2

## **Fractions 2**

Simplifying Fractions 1  
Simplifying Fractions 2  
Multiply Fractions by Whole Numbers  
Multiplying Fractions by Fractions  
Fraction Multiplication and Area  
Simplifying Before Multiplying  
Multiplying Mixed Numbers  
Multiplication as Scaling/Resizing  
Fractions Are Divisions  
Dividing Fractions 1: Sharing Divisions  
Dividing Fractions 2: Fitting the Divisor  
Dividing Fractions: Reciprocal Numbers  
Divide Fractions  
Introduction to Ratios  
Fractions to Decimals 1  
Fractions to Decimals 2 - With a Calculator  
Review

## **Ratios, Proportions & Problem Solving**

**Introduction to Ratios**  
**Ratios and Rates**  
**Unit Rates 1**  
**Unit Rates 2**  
**Using Equivalent Rates**  
**Solving Problems Using Equivalent Rates**  
**Aspect Ratio**  
**Using Ratios to Convert Measuring Units**  
**Solving Proportions: Cross Multiplying**  
**Why Cross Multiplying Works**  
**Proportional Relationships**  
**Graphing Proportional Relationships—More Practice**  
**More on Proportions**  
**Scaling Figures**  
**Floor Plans**  
**Maps**  
**Significant Digits**  
**Problem Solving with Bar Models 1**  
**Problem Solving with Bar Models 2**  
**Problem Solving with Bar Models 3**  
**Problem Solving with Bar Models 4**  
**Ratio Problems and Bar Models 1**  
**Ratio Problems and Bar Models 2**  
**Review**

## **Geometry 2**

**Quadrilaterals Review**  
**Drawing Problems**  
**Area of Right Triangles**  
**Area of Parallelograms**  
**Area of Triangles**  
**Area of Polygons**  
**Polygons in the Coordinate Grid**  
**Area and Perimeter Problems 1**  
**Review: Area of Polygons 1**  
**Review: Area of Polygons 2**  
**Circumference of a Circle**  
**Area of a Circle**  
**Proving the Formula for the Area of a Circle**  
**Area and Perimeter Problems 2**  
**Slicing Three-Dimensional Shapes**  
**Nets and Surface Area 1**  
**Nets and Surface Area 2**  
**Surface Area**  
**Converting Between Area Units**  
**Conversions Between Metric Units of Area**  
**Conversions Between Customary Units of Area**  
**Volume of a Rectangular Prism with Sides of Fractional Lengths**  
**Converting Between Units of Volume**  
**Volumes Problems**  
**Volume of Prisms and Cylinders**  
**Volume of Pyramids and Cones**  
**Geometry Review**

## **Geometry 1**

**Review: Area of Rectangles**  
**Review: Area and Perimeter**  
**Lines, Rays, and Angles**  
**Measuring Angles**  
**Drawing Angles**  
**Angle Problems**  
**Estimating Angles**  
**Review: Angles**  
**Parallel and Perpendicular Lines**  
**Parallelograms**  
**Triangles**  
**Line Symmetry**  
**Review: Drawing Polygons**  
**Circles**  
**Quadrilaterals**  
**Equilateral, Isosceles, and Scalene Triangles**  
**Area and Perimeter Problems**  
**Volume**  
**Volume of Rectangular Prisms (Cuboids)**  
**A Little Bit of Problem Solving**  
**Review 1**  
**Review 2**

## **Geometry 3**

**Angle Relationships**  
**Classify Triangles**  
**Angles in a Triangle**  
**Angles in Polygons**  
**Congruent Figures**  
**Similar Figures**  
**Similar Figures and Scale Ratio**  
**Congruent Transformations**  
**Transformations in the Coordinate Grid**  
**Basic Geometric Constructions**  
**More Constructions**  
**Bisecting Lines and Angles**  
**Drawing Problems**  
**Geometry Review**  
**Square Roots**  
**Equations That Involve Taking a Square Root**  
**The Pythagorean Theorem**  
**The Pythagorean Theorem: Applications**  
**A Proof of the Pythagorean Theorem**  
**Review**

## **Fractions and Decimals 3**

Place Value with Decimals  
Comparing Decimals  
Add and Subtract Decimals  
Rounding Decimals  
Review: Multiply and Divide Decimals Mentally  
Review: Multiply Decimals by Decimals  
Review: Long Division with Decimals  
Problem Solving with Decimals  
Fractions and Decimals  
Multiply and Divide by Powers of Ten  
Scientific Notation  
Review: Divide Decimals by Decimals  
Divide Decimals by Decimals 2  
Convert Customary Measuring Units  
Convert Metric Measuring Units  
Convert Between Customary and Metric  
Decimals Review  
Using Factoring When Simplifying Fractions  
Fraction Terminology  
Review: Fractions and Mixed Numbers  
Review: Add and Subtract Fractions  
and Mixed Numbers  
Add and Subtract Fractions: More Practice  
Review: Multiplying Fractions 1  
Review: Multiplying Fractions 2  
Dividing Fractions: Reciprocal Numbers  
Divide Fractions  
Multiple Operations and Fraction Equations  
Comparing Fraction and Decimal Division  
Multiplication, Division, and Fractions  
Problems with Fractional Parts  
Ratio Problems Involving Fractions  
Maps  
Fractions Review

## **The Four Operations**

(with a Touch of Algebra)

Warm-up: Mental Math 1  
Warm-up: Mental Math 2  
Review: Addition and Subtraction  
Review: Multiplication and Division  
Balance Problems and Equations 1  
Balance Problems and Equations 2  
More Equations  
The Order of Operations and Equations  
Powers and Exponents  
Multiplying in Parts  
The Multiplication Algorithm  
More Multiplication  
Multiplying and Dividing in Parts  
Long Division  
A Two-Digit Divisor 1  
A Two-Digit Divisor 2  
Long Division and Repeated Subtraction  
Review of the Four Operations 1  
Review of the Four Operations 2  
Lessons in Problem Solving  
Coordinate Grid  
Number Patterns in the Coordinate Grid  
More Number Patterns in the Coordinate Grid  
Review

## **Statistics & Probability**

Understanding Distributions  
Mean, Median and Mode  
Using Mean, Median and Mode  
Range  
Measures of Variation  
Making Histograms 2  
Boxplots  
Stem-and-Leaf Plots  
Statistics Project (optional)  
Statistics Review  
Review of Data Analysis  
Random Sampling  
Using Random Sampling  
Comparing Two Populations  
Comparing Two Samples  
Review 1  
Probability  
Probability Problems from Statistics  
Experimental Probability  
Counting the Possibilities  
Using Simulations to Find Probabilities  
Probabilities of Compound Events  
Review 2

## Expressions & Equations

Terminology for the Four Operations  
The Order of Operations 1  
The Order of Operations 2  
Expressions  
Writing and Simplifying Expressions 1:  
Length and Perimeter  
More on Writing and Simplifying Expressions  
Writing and Simplifying Expressions 2: Area  
Expressions and Equations  
Simplifying Expressions  
Multiplying and Dividing in Parts  
The Distributive Property 1  
The Distributive Property 2  
Properties of the Four Operations  
Equations  
More Equations  
Inequalities  
Growing Patterns  
Using Two Variables  
Review 1  
Review 2

## Percent

Percent  
What Percentage . . . ?  
Percentage of a Number (Mental Math)  
Percentage of a Number: Using Decimals  
Discounts  
Practice with Percent  
Finding the Total When the Percentage Is Known  
Review: Percent  
Percentage  
Solving Basic Percentage Problems  
Percent Equations  
Circle Graphs  
Percentage of Change  
Percentage of Change: Applications  
Comparing Values Using Percentages  
Simple Interest  
Review: Percent 2

## Rational Numbers

Fractions and Decimals  
Rational Numbers  
Adding and Subtracting Rational Numbers  
Multiply and Divide Rational Numbers 1  
Multiply and Divide Rational Numbers 2  
Many Operations with Rational Numbers  
Scientific Notation  
Equations with Fractions  
Equations with Decimals  
Review

## Linear Equations

Solving Equations  
Addition and Subtraction Equations  
Multiplication and Division Equations  
Word Problems 1  
Constant Speed  
Review 1  
Two-Step Equations  
Two-Step Equations Practice  
Growing Patterns  
A Variable on Both Sides  
Some Problem Solving  
Using the Distributive Property  
Word Problems 2  
Inequalities  
Word Problems and Inequalities  
Graphing  
An Introduction to Slope  
Speed, Time and Distance  
Review 2

## Integers

Integers  
Addition and Subtraction as Movements  
Adding Integers 1: Counters  
Adding Integers 2  
Subtracting a Negative Integer  
Add and Subtract Roundup  
Coordinate Grid  
Multiplying Integers  
Dividing Integers  
Multiply and Divide Roundup  
Coordinate Grid Practice  
Graphing  
Graphing Linear Functions  
Review 1  
Review 2

*You can read complete descriptions of the books and see sample lessons online at <https://www.mathmammoth.com>*