

Scope & Sequence of Lessons

by lesson number

Fifth Grade

PLACE VALUE AND COUNTING

Place value

- 1 Recognizing numbers less than a million
- 65 Recognizing tenths and hundredths places
- 80 Recognizing numbers up through trillions
- 80 Recognizing numbers given in expanded notation
- 121 Recognizing the thousandths place

Recognizing number words

- 1 Recognizing numbers less than a million
- 13 Recognizing ordinal number words up to 100
- 65 Recognizing decimal number words
- 80 Recognizing numbers up through trillions
- 108 Recognizing Roman Numerals I, V, X, L, C, D and M

Missing number series

- 6 Filling in missing numbers in sequences counting by 1, 2, 3, 4, 5, 6, 7, 8, 9 or 10
- 87 Filling in missing numbers in sequences counting by 11 or 12
- 104 Filling in missing numbers in sequences counting by varying amounts
- 111 Filling in missing numbers in a sequence of decimal numbers

Putting numbers in order

- 6 Arranging 4 four-digit numbers in order from least to greatest and from greatest to least
- 43 Putting simple fractions in order from least to greatest and greatest to least
- 98 Putting decimal numbers in order from least to greatest and greatest to least
- 148 Arranging fractions, decimals and mixed numbers on a number line

ADDITION OF WHOLE NUMBERS

- 1 Adding 4 four-digit numbers with regrouping; recognizing addition and subtraction fact families
- 32 Learning about the Commutative Property of Addition
- 96 Learning about the Associative Property of Addition

SUBTRACTION OF WHOLE NUMBERS

- 1 Subtracting 2 three-digit numbers with regrouping; recognizing addition and subtraction fact families
- 3 Subtracting four-digit numbers with regrouping

MULTIPLICATION OF WHOLE NUMBERS

Multiplication facts

- 2 Multiplication facts with products up to 30, with 5 (to 45), 10 (to 90), 11 (to 99) or 12 (to 48) as a factor
- 11 Recognizing multiplication and division fact families
- 16 Multiplication facts with products up to 50
- 28 Multiplication facts with products less than 100 with 12 as a factor
- 28 Recognizing multiples
- 38 Determining the lowest common multiple
- 38 Multiplication facts with products with 11 (up to 121) and 12 (up to 144) as a factor

Scope & Sequence of Lessons

by lesson number

Fifth Grade

One-digit multiplier, two or more digit multiplicand

- 2 Multiplying a two- or three-digit number by a one-digit multiplier

Two-digit multiplier

- 22 Multiplying 2 two-digit numbers, no regrouping
- 24 Multiplying 2 two-digit numbers, regrouping only with the ones or the tens place
- 36 Multiplying 2 two-digit numbers, regrouping twice
- 107 Multiplying a three-digit whole or decimal number or money amount by a two-digit number

Three-digit multiplier

- 139 Multiplying a three-digit number by a three-digit number

Other

- 11 Learning the terminology for multiplication
- 32 Learning about the Commutative Property of Multiplication
- 96 Learning about the Distributive and Associative Properties of Multiplication
- 153 Multiplying mixed numbers

DIVISION OF WHOLE NUMBERS

Division facts, no remainders

- 11 Recognizing multiplication and division fact families
- 11 Learning division facts with dividends up through 30 and dividends that are multiples of 5 (to 45), 10 (to 90), 11 (to 99) or 12 (to 48)
- 28 Learning division facts with dividends up through 50
- 49 Learning division facts with dividends up to 81 and less than 100 with 12 as a factor
- 61 Determining factors
- 62 Determining composite numbers, prime numbers and prime factors
- 73 Learning division facts with dividends up to 121 with 11 as a factor and up to 144 with 12 as a factor
- 88 Determining the greatest common factor
- 93 Determining if a number is a prime number

Division facts, remainders

- 29 Learning division facts with remainders with dividends up to 30 and dividends with 5 as a factor
- 38 Learning division facts with remainders with dividends to 50
- 71 Learning division facts with remainders with dividends to 81

One-digit divisor & two or more digit quotient

- 21 Dividing a 1-digit divisor into a 3-digit dividend with a 3-digit quotient, no regrouping or remainders
- 26 Dividing a 1-digit divisor into a 3-digit dividend with a 2-digit quotient, no regrouping or remainders
- 27 Dividing a 1-digit divisor into a 3-digit dividend with a 2-digit quotient, no regrouping or remainders
- 33 Dividing a 1-digit divisor into a 3-digit dividend resulting in 2-digit or 3-digit quotient, regrouping & remainders
- 34 Dividing a 1-digit divisor into a 3-digit dividend resulting in 2-digit or 3-digit quotient, regrouping & remainders
- 41 Dividing money amounts by a 1-digit divisor
- 46 Dividing a 1-digit divisor into a 4-digit dividend with a 3-digit quotient and a zero in the tens place
- 47 Dividing a 1-digit divisor into a 4-digit dividend with 3-digit quotient and zero in tens place

Scope & Sequence of Lessons

by lesson number

Fifth Grade

- 101 Dividing using short division
- 100 Calculating a decimal answer in division problems when zeroes need to be added to the right of the dividend
- 146 Simplifying division problems using powers of ten

Two-digit divisor

- 49 Dividing with a 2-digit divisor and a dividend less than 100 with remainders
- 128 Dividing a 2-digit divisor into a 3-digit dividend with a 2-digit quotient
- 141 Dividing a 2-digit divisor into a 3-digit dividend with a 1-digit quotient

Three-digit divisor

- 119 Dividing a 3-digit divisor into a 3- or 4-digit dividend with a 1-digit quotient

Other

- 11 Learning the terminology for division
- 77 Recognizing division without the \div symbol
- 79 Dividing dollars by dollars
- 147 Dividing a decimal number by a decimal number
- 153 Dividing mixed numbers

FRACTIONS

- 9 Computing one half of a group
- 15 Defining numerator and denominator
- 15 Fractional part of a group of items when modeled or given in words, including extraneous information or the word "not"
- 15 Learning that the whole is the sum of its parts
- 15 Adding and subtracting fractions
- 23 Adding and subtracting fractions and mixed numbers with like denominators
- 31 Determining equivalent fractions using models or money
- 39 Calculating equivalent fractions using multiplication
- 43 Comparing fractions
- 43 Putting simple fractions in order from least to greatest and greatest to least
- 44 Computing $\frac{1}{2}$ to $\frac{1}{9}$ of a group of items
- 50 Adding and subtracting fractions with unlike denominators
- 59 Calculating equivalent fractions using division
- 65 Writing mixed numbers as decimals
- 68 Changing an improper fraction to a mixed or whole number
- 69 Adding and subtracting fractions in word problems
- 76 Simplifying fractions
- 77 Converting improper fractions as part of mixed numbers
- 78 Determining the improper fraction with the greatest or least value in a set of fractions
- 78 Putting fractions in order from least to greatest and greatest to least
- 83 Converting fractions to percents by setting up equivalent fractions
- 99 Simplifying improper fractions as part of mixed number answers
- 105 Comparing fractions in word problems
- 106 Selecting the fraction that best represents a shaded region
- 110 Multiplying fractions and whole numbers by fractions
- 113 Converting mixed numbers to decimal numbers by setting up equivalent fractions
- 117 Writing probabilities as lowest-terms fractions
- 118 Determining the reciprocal of a whole number or fraction

Scope & Sequence of Lessons

by lesson number

Fifth Grade

- 122 Subtracting fractions with regrouping
- 126 Using multiplication and division to cross simplify fraction problems
- 127 Converting mixed numbers to improper fractions
- 129 Dividing fractions
- 135 Calculating averages involving fractions
- 136 Converting fractions to decimals using division
- 148 Arranging fractions, decimals and mixed numbers on a number line
- 153 Multiplying and dividing mixed numbers

MONEY

- 3 Recognizing money number words
- 3 Recognizing the dollar symbol and decimal point
- 3 Regrouping with money amounts when adding, subtracting or multiplying money amounts
- 4 Learning change equivalents up to \$1.00
- 4 Recognizing coins
- 4 Calculating change using the least number of coins
- 41 Rounding to the nearest dollar
- 41 Dividing money amounts by a one-digit divisor
- 79 Dividing dollars by dollars
- 97 Calculating cost per unit
- 107 Multiplying a money amount by a two-digit number
- 149 Computing sales tax

DECIMALS

- 65 Recognizing tenths and hundredths places
- 65 Recognizing decimal number words
- 65 Writing decimal numbers as mixed numbers
- 65 Writing mixed numbers as decimals
- 66 Adding and subtracting decimal numbers
- 81 Multiplying a decimal number by a whole number
- 82 Solving equations involving decimals
- 83 Converting decimals to percents by setting up equivalent fractions
- 85 Comparing decimal numbers in true and not true statements
- 85 Comparing decimal numbers in less than and greater than problems
- 94 Dividing a decimal number by a whole number
- 98 Putting decimal numbers in order from least to greatest and greatest to least
- 100 Solving word problems involving decimals
- 100 Calculating a decimal answer in division problems when zeroes need to be added to the right of the dividend
- 107 Multiplying a three-digit decimal number by a two-digit number
- 111 Filling in missing numbers in a sequence of decimal numbers
- 113 Converting mixed numbers to decimal numbers by setting up equivalent fractions
- 120 Determining where to place the decimal when multiplying and dividing decimal numbers by powers of ten
- 121 Recognizing the thousandths place
- 121 Rounding decimal numbers to the nearest tenth or hundredth
- 125 Selecting the decimal that best represents a shaded region
- 131 Computing products involving two decimal numbers
- 132 Computing products involving two decimal numbers
- 135 Calculating averages involving decimals
- 136 Converting fractions to decimals using division

Scope & Sequence of Lessons

by lesson number

Fifth Grade

- 147 Dividing a decimal number by a decimal number
- 148 Arranging fractions, decimals and mixed numbers on a number line

PERCENT

- 83 Converting fractions and decimals to percents by setting up equivalent fractions
- 109 Determining percent in word problems
- 112 Converting percents to decimals
- 112 Computing the percent of a whole number
- 116 Solving problems using data displayed as percent pie graphs
- 125 Selecting the percent that best represents a shaded region
- 130 Solving word problems involving percent
- 149 Computing sales tax

TIME - CLOCK

- 8 Telling time to the minute
- 8 Recognizing a quarter past or before the hour or half past the hour
- 8 Calculating minutes before the hour
- 8 Learning 60 minutes = 1 hour
- 8 Calculating elapsed time
- 57 Calculating elapsed time (hours) involving AM and PM
- 73 Calculating elapsed time in minutes across the 12 on the clock

TIME - CALENDAR

- 7 Computing the date
- 7 Learning 7 days = 1 week
- 7 Learning the abbreviations for days and months
- 7 Learning the number of days in each month
- 7 Learning 1 year = 12 months
- 51 Learning the equivalent for one year in days and in weeks
- 51 Learning about leap year
- 51 Calculating elapsed time crossing months

ODD AND EVEN NUMBERS

- 9 Recognizing odd and even numbers less than 100
- 87 Recognizing three-digit odd and even numbers

WORD PROBLEMS

- 2 Solving multi-step word problems using addition and subtraction
- 4 Solving word problems involving money
- 10 Solving word problems using deductive reasoning
- 10 Determining if there is sufficient information to answer the question
- 10 Determining what information is needed to answer the question in a word problem
- 10 Solving word problems using reasoning
- 16 Solving word problems involving multiplication and division
- 25 Estimating the answers for addition, subtraction and multiplication word problems using rounding
- 25 Estimating range for an answer

Scope & Sequence of Lessons

by lesson number

Fifth Grade

- 29 Solving word problems involving division with remainders
- 32 Selecting the correct equation
- 55 Calculating the answer to a word problem using 2 to 1 and 5 to 1 ratios
- 58 Solving word problems by listing the possibilities
- 63 Solving word problems involving area and perimeter
- 70 Determining the question when given the information and the answer
- 70 Estimating which answer is most reasonable
- 74 Calculating distance, time and speed in word problems
- 82 Estimating answers to problems involving numbers with up to nine digits
- 97 Calculating cost per unit
- 100 Solving word problems involving decimals
- 102 Calculating averages
- 103 Calculating averages
- 114 Reading maps drawn to scale
- 115 Calculating the mean, median and mode
- 130 Solving word problems involving percent
- 133 Solving word problems involving the multiplication of fractions
- 135 Calculating averages involving decimals or fractions

MEASUREMENTS

- 12 Estimating standard measurements
- 12 Reading measuring devices
- 17 Learning the equivalents for feet, inches and yards
- 48 Equivalents for centimeters, meters, kilometers, kilograms, liters, milliliters, millimeters, gallons, pounds, tons & dozens
- 48 Converting measurements using multiplication
- 48 Determining the measurement that is longer or shorter or heavier or lighter
- 54 Learning length abbreviations
- 58 Converting measurements using division
- 67 Comparing U.S. customary and metric units
- 103 Abbreviations for quarts, gallons, kilograms, grams, pounds, ounces, liters, milliliters and millimeters

GEOMETRY

- 17 Measuring line segments to the nearest half inch, quarter inch and half centimeter
- 20 3-D figures - sphere, cube, cone, cylinder; rectangular, square and triangular pyramid; rectangular & triangular prism
- 20 Learning the terminology of flat and curved faces, vertices and edges
- 30 Measuring angles
- 30 Learning the sum of the angles for triangles and rectangles
- 30 Recognizing right, obtuse and acute angles
- 30 Recognizing equilateral, isosceles and scalene triangles
- 35 Parallel, intersecting and perpendicular, plane figure, polygon, quadrilateral, parallelogram and diagonal
- 42 Recognizing patterns
- 42 Learning the terminology of pentagon, hexagon and octagon
- 42 Determining figures that do or do not belong in a set
- 45 Recognizing when figures are similar or congruent
- 45 Recognizing flips, slides and turns
- 45 Recognizing lines of symmetry
- 45 Recognizing bilateral and rotational symmetry
- 45 Recognizing the symbol for a triangle
- 54 Calculating perimeters
- 56 Calculating the area of a rectangle

Scope & Sequence of Lessons

by lesson number

Fifth Grade

- 63 Solving word problems involving area and perimeter
- 71 Learning the terminology of rhombus and trapezoid
- 72 Calculating the volume of a rectangular prism with one or more layers of cubes
- 75 Recognizing parts of a circle
- 75 Calculating the diameter given the radius
- 75 Associating the 360 degrees in a circle with one-quarter, one-half, three-quarter and full turns
- 84 Calculating the volume of a rectangular prism using the formula $L \times W \times H$
- 86 Recognizing the pattern in a sequence of figures or pattern of shading
- 95 Calculating area and perimeter given coordinates on a coordinate grid
- 95 Calculating the perimeter of an irregular figure
- 134 Calculating the area of a parallelogram
- 137 Calculating the surface area of a rectangular prism
- 144 Calculating the area of a triangle
- 145 Calculating the circumference and area of a circle
- 145 Recognizing π (pi) and squared
- 152 Calculating the area of an irregular figure

ESTIMATING

- 25 Rounding to the nearest ten, hundred or thousand
- 25 Estimating the answers for addition, subtraction and multiplication word problems using rounding
- 25 Estimating range for an answer
- 25 Rounding numbers so there is only one non-zero digit
- 41 Rounding to the nearest dollar
- 67 Comparing U.S. customary and metric units
- 70 Estimate which answer is most reasonable
- 82 Estimating answers to problems involving numbers with up to nine digits
- 92 Estimating to the nearest dollar or whole number
- 121 Rounding decimal numbers to the nearest tenth or hundredth

PRE-ALGEBRA

- 6 Recognizing the symbols $<$ less than and $>$ greater than
- 13 Completing patterns in a chart
- 14 Filling in a missing number in an equation
- 14 Determining the value of a letter that has been substituted for a number
- 14 Solving algebraic equations
- 14 Selecting the correct operation
- 18 Filling in missing numbers in equations with parentheses
- 18 Learning the order of operations when solving an equation
- 19 Changing a number sentence from \neq to $=$
- 19 Finding the value of an unknown by performing the same operation on both sides of an equation
- 32 Selecting the correct equation
- 37 Recognizing true and not true number sentences
- 37 Selecting the correct symbol for a number sentence
- 37 Using trial and error to replace unknowns in an equation
- 52 Determining coordinate points
- 53 Using Venn Diagrams to understand the union and intersection of sets
- 55 Recognizing multiplication without the "x" symbol
- 64 Measuring vertical and horizontal lines by subtracting X- and Y-coordinates
- 77 Recognizing division without the "÷" symbol
- 82 Solving equations involving decimals

Scope & Sequence of Lessons

by lesson number

Fifth Grade

- 89 Comparing positive and negative numbers
- 90 Determining if coordinate points are on a given line
- 91 Determining numbers that are multiples of one number and factors of another
- 96 Learning the Property of One and Zero Property
- 123 Determining negative numbers using coordinate points
- 124 Determining the equation that represents a problem and the equation that solves it
- 138 Calculating using exponents
- 140 Identifying the equation that represents a line on a coordinate graph
- 143 Determining the rule that creates a pattern
- 150 Adding positive and negative integers
- 151 Adding positive and negative integers
- 154 Subtracting positive and negative integers
- 155 Subtracting positive and negative integers

PROBABILITY

- 60 Determining the probability of an event
- 117 Writing probabilities as lowest-terms fractions
- 142 Computing expected numbers based on probabilities

GRAPHS

- 5 Interpreting circle graphs, picture graphs, bar graphs and line graphs
- 40 Comparing two or more sets of data using bar or line graphs
- 40 Interpreting information given in a histogram
- 116 Solving problems using data displayed as percent pie graphs

STATISTICS

- 102 Calculating averages
- 103 Calculating averages
- 115 Calculating the mean, median and mode
- 115 Using stem and leaf plots
- 135 Calculating averages involving decimals or fractions

Stretch & Activity Concepts

by Lesson or Activity Number

Fifth Grade

CALCULATORS

Activity

A5

CALENDARS

Create a Problem

14, 15

COMPUTATION

Activity

A4, A5, A6, A7, A10, A11, A12

Create a Problem

2, 4, 5, 6, 10, 11, 12, 16, 22, 23, 24

ESTIMATION

Activity

A7

GEOMETRY

Create a Problem

19

MAP SCALE

Activity

A2

PERCENT

Activity

A14

PRE-ALGEBRA

Stretch

4, 13, 18, 21, 32, 41, 58, 67, 72, 81, 87, 129

PROBABILITY

Activity

A6

Stretch & Activity Concepts

by Lesson or Activity Number

Fifth Grade

REASONING USING CALENDARS

Stretch

5, 31

REASONING USING COMPUTATION

Stretch

2, 3, 8, 12, 20, 36, 44, 52, 54, 69, 82, 91, 92, 95, 97, 98, 103, 116, 120, 121, 125, 127, 130, 132, 133, 145, 146, 148, 151, 155

REASONING USING GEOMETRY

Stretch

15, 22, 25, 34, 40, 43, 45, 49, 50, 56, 60, 63, 71, 73, 76, 78, 85, 88, 93, 99, 100, 104, 106, 112, 121, 136, 137, 138, 139, 140, 143, 147

Activity

A8, A9, A10, A11, A12, A13

REASONING USING LOGIC

Stretch

6, 10, 11, 14, 16, 17, 19, 23, 26, 27, 28, 29, 30, 33, 35, 37, 38, 39, 42, 46, 48, 51, 53, 56, 57, 62, 64, 68, 74, 75, 77, 79, 83, 86, 90, 101, 108, 114, 115, 144, 152, 153, 154

Activity

A1, A2, A3, A4

REASONING USING PATTERNS

Stretch

7, 9, 24, 47, 59, 96, 105, 111, 131, 150

REASONING USING POSSIBILITIES

Stretch

55, 61, 65, 66, 70, 80, 84, 89, 94, 102, 107, 110, 113, 118, 119, 123, 124, 128, 134, 142, 149

REASONING USING ROMAN NUMERALS

Stretch

141, 109

REASONING USING VENN DIAGRAMS

Stretch

117, 126, 135

Lesson Concepts

Fifth Grade by lesson & page number

LESSON	PAGE	CONCEPT
1	2	Numbers less than a million given in words or place value; recognizing <i>addition</i> and <i>subtraction fact families</i> ; subtracting 2 three-digit numbers with regrouping; adding 4 four-digit numbers with regrouping
2	4	<i>Multiplication facts</i> with products up through 30 and products with 5 (up to 45), 10 (up to 90), 11 (to 99) or 12 (to 48) as a factor; multiplying a two- or three-digit number by a one- digit multiplier; solving multi-step word problems using addition and subtraction
3	6	Subtracting four-digit numbers with regrouping; recognizing money number words; recognizing the dollar symbol and decimal point; regrouping with money amounts when adding, subtracting or multiplying money amounts
4	8	Learning change equivalents up to \$1.00; recognizing coins; solving word problems involving money; calculating change using the least number of coins
5	10	Interpreting <i>circle graphs</i> , <i>picture graphs</i> , <i>bar graphs</i> and <i>line graphs</i>
	12	Assessment Test 1
6	14	Recognizing the symbols <i>< less than</i> , <i>> greater than</i> ; arranging 4 four-digit numbers in order from <i>least to greatest</i> and from <i>greatest to least</i> ; filling in numbers in sequences counting by 1, 2, 3, 4, 5, 6, 7, 8, 9 or 10
7	16	Computing the date; learning 7 days = 1 week; the abbreviations for days and months; the number of days in each Month; learning 1 year = 12 months
8	18	Telling time to the minute; recognizing a quarter past or before the hour or half past the hour; calculating minutes before the hour; learning 60 minutes = 1 hour; calculating elapsed time
9	20	Computing one half of a group; recognizing <i>odd</i> and <i>even</i> numbers less than 100
10	22	Solving word problems using <i>deductive reasoning</i> ; determining if there is sufficient information to answer a question; determining what information is needed to answer the question in a word problem; solving word problems using <i>reasoning</i>
	24	Test 2
	24	Create a Problem 2: The Walk
11	26	Learning division facts with dividends up through 30 and dividends that are multiples of 5 (to 45), 10 (to 90), 11 (to 99) or 12 (to 48); recognizing <i>multiplication</i> and <i>division fact families</i> ; learning the terminology for multiplication and division
12	28	Estimating standard measurements; reading measuring devices
13	30	Completing patterns in a chart; recognizing <i>ordinal</i> number words up to 100
14	32	Determining whether statements are true; filling in a missing number in an <i>equation</i> ; determining the value of a letter that has been substituted for a number; solving algebraic equations; selecting the correct operation
15	34	Defining <i>numerator</i> and <i>denominator</i> ; determining the fractional part of a group of items when modeled or given in words, including extraneous information or the word "not"; learning that the whole is the sum of its parts; adding and subtracting <i>fractions</i>
	36	Assessment Test 3
16	38	Solving word problems involving multiplication and division; learning <i>multiplication facts</i> with products up to 50
17	40	Measuring <i>line segments</i> to the nearest half inch, quarter inch and half centimeter; learning the equivalents for feet, inches and yards
18	42	Filling in missing numbers in equations with parentheses; learning the <i>order of operations</i> when solving an equation; replacing letters with numbers in an equation
19	44	Changing a number sentence from \neq to $=$; finding the value of an unknown by performing the same operation on both sides of an equation
20	46	Recognizing <i>three-dimensional</i> figures - sphere, cube, cone, cylinder; rectangular, square and triangular pyramid; rectangular and triangular prism; learning the terminology of flat and curved <i>faces</i> , <i>vertices</i> and <i>edges</i>
	48	Test 4
	48	Create a Problem 4: Horses I

Lesson Concepts

by lesson & page number

Fifth Grade

LESSON	PAGE	CONCEPT
21	50	Dividing a 1-digit divisor into a 3-digit dividend with a 3-digit quotient, no regrouping or remainders
22	52	Multiplying 2 two-digit numbers, no regrouping
23	54	Adding and subtracting fractions and mixed numbers with like denominators
24	56	Multiplying 2 two-digit numbers, regrouping only with the ones or the tens place; learning multiplication facts with products to 81
25	58	<i>Rounding</i> to the nearest ten, hundred or thousand; estimating the answers for addition, subtraction and multiplication word problems using rounding; estimating range for an answer; rounding numbers so there is only one non-zero digit
60		Test 5
60		Create a Problem 5: Horses II
26	62	Dividing a one-digit divisor into a three-digit dividend with a two-digit quotient, no regrouping or remainders
27	64	Continued – Dividing a one-digit divisor into a three-digit dividend with a two-digit quotient, no regrouping or remainders
28	66	Learning division facts with dividends up through 50; learning multiplication facts with products less than 100 with 12 as a factor; recognizing multiples
29	68	Learning division facts with remainders with dividends up to 30 and dividends with 5 as a factor; solving word problems involving division with remainders
30	70	Measuring <i>angles</i> ; learning the sum of the angles for triangles and rectangles; recognizing <i>right</i> , <i>obtuse</i> and <i>acute</i> angles; recognizing <i>equilateral</i> , <i>isosceles</i> and <i>scalene</i> triangles
72		Test 6
72		Create a Problem 6: Horses III
31	74	Determining <i>equivalent fractions</i> using models or money
32	76	Selecting the correct equation; learning about the <i>Commutative Property of Addition</i> and <i>Commutative Property of Multiplication</i>
33	78	Dividing a one-digit divisor into a three-digit dividend resulting in a two-digit or three-digit quotient, with regrouping and remainders
34	80	Dividing a one-digit divisor into a three-digit dividend resulting in a two-digit or three-digit quotient, with regrouping and remainders
35	82	Learning the terminology of <i>parallel</i> , <i>intersecting</i> and <i>perpendicular</i> , <i>plane figure</i> , <i>polygon</i> , <i>quadrilateral</i> , <i>parallelogram</i> , and <i>diagonal</i>
84		First Quarter Test
36	86	Multiplying 2 two-digit numbers, regrouping twice
37	88	Recognizing true and not true number sentences; selecting the correct symbol for a number sentence; using trial and error to replace unknowns in an equation
38	90	Determining the lowest common multiple; learning multiplication facts with products with 11 (up to 121) and 12 (up to 144) as a factor; learning division facts with remainders with dividends up to 50
39	92	Calculating <i>equivalent fractions</i> using multiplication
40	94	Comparing two or more sets of data using <i>bar</i> or <i>line graphs</i> ; interpreting information given in a <i>histogram</i>
96		Test 7
96		Create a Problem 7: Cell Phone I
41	98	<i>Rounding</i> to the nearest dollar; dividing money amounts by a one-digit divisor
42	100	Recognizing <i>patterns</i> ; learning the terminology of <i>pentagon</i> , <i>hexagon</i> , and <i>octagon</i> ; determining figures that do or do not belong in a set
43	102	Comparing fractions; putting simple fractions in order from least to greatest and greatest to least
44	104	Computing $\frac{1}{2}$ to $\frac{1}{9}$ of a group of items
45	106	Recognizing when figures are <i>similar</i> or <i>congruent</i> ; recognizing <i>flips</i> , <i>slides</i> and <i>turns</i> ; recognizing <i>lines of symmetry</i> ; recognizing <i>bilateral</i> and <i>rotational symmetry</i> ; recognizing the symbol for a triangle
108		Test 8
108		Create a Problem 8: Cell Phone II

Lesson Concepts

by lesson & page number

Fifth Grade

LESSON	PAGE	CONCEPT
46	110	Dividing a 1-digit divisor into a 4-digit dividend with a 3-digit quotient and a zero in the tens place
47	112	Dividing a one-digit divisor into a four-digit dividend with a three-digit quotient and a zero in the tens place
48	114	Learning measurement equivalents for centimeters, meters, kilometers, kilograms, liters, milliliters, millimeters, gallons, pounds, tons, dozens; converting measurements using multiplication; determining the measurement that is longer or shorter or heavier or lighter
49	116	Dividing with a two-digit divisor and a dividend less than 100 with remainders; learning division facts with dividends up to 81 and less than 100 with 12 as a factor
50	118	Adding and subtracting fractions with unlike denominators
	120	Test 9
	120	Create a Problem 9: Cell Phone III
51	122	Learning the equivalent for one year in days and in weeks; learning about <i>leap year</i> ; calculating elapsed time crossing months
52	124	Determining <i>coordinate points</i>
53	126	Using <i>Venn Diagrams</i> to understand the <i>union</i> and <i>intersection</i> of sets
54	128	Calculating <i>perimeters</i> ; learning length abbreviations
55	130	Recognizing multiplication without the "x" symbol; calculating the answer to a word problem using 2 to 1 and 5 to 1 ratios
	132	Test 10
	132	Create a Problem 10: Forklift I
56	134	Calculating the <i>area of a rectangle</i>
57	136	Calculating elapsed time (hours) involving <i>AM</i> and <i>PM</i>
58	138	Solving word problems by listing the possibilities; converting measurements using division
59	140	Calculating <i>equivalent fractions</i> using division
60	142	Determining the probability of an event
	144	Test 11
	144	Create a Problem 11: Forklift II
61	146	Determining <i>factors</i>
62	148	Determining <i>composite numbers</i> , <i>prime numbers</i> and <i>prime factors</i>
63	150	Solving word problems involving area and perimeter
64	152	Measuring vertical and horizontal lines by subtracting X- and Y-coordinates
65	154	Recognizing <i>tenths</i> and <i>hundredths</i> places; recognizing <i>decimal</i> number words; writing decimal numbers as mixed numbers; writing mixed numbers as decimals
	156	Test 12
	156	Create a Problem 12: Forklift III
66	158	Adding and subtracting <i>decimal</i> numbers
67	160	Comparing U.S. customary and metric units
68	162	Changing an <i>improper fraction</i> to a mixed or whole number
69	164	Adding and subtracting fractions in word problems
70	166	Determining the question when given the information and the answer; estimating which answer is most reasonable
	168	Second Quarter Test
71	170	Learning the terminology of <i>rhombus</i> and <i>trapezoid</i> ; division facts with remainders with dividends to 81
72	172	Calculating the <i>volume</i> of a rectangular prism with one or more layers of cubes
73	174	Calculating elapsed time in minutes across the 12 on the clock; learning division facts with dividends up to 121 with 11 as a factor and up to 144 with 12 as a factor
74	176	Calculating distance, time and speed in word problems
75	178	Recognizing parts of a <i>circle</i> ; calculating the diameter given the radius; associating the 360 degrees in a circle with one-quarter, one-half, three-quarter and full turns
	180	Test 13
	180	Create a Problem 13: Hot Air I

Lesson Concepts

by lesson & page number

Fifth Grade

LESSON	PAGE	CONCEPT
76	182	Simplifying fractions
77	184	Converting improper fractions as part of mixed numbers; recognizing division without the \div symbol
78	186	Determining the improper fraction with the greatest or least value in a set of fractions; putting fractions in order from least to greatest and greatest to least
79	188	Dividing dollars by dollars
80	190	Recognizing numbers up through <i>trillions</i> ; recognizing numbers given in expanded notation
	192	Test 14
	192	Create a Problem 14: Hot Air II
81	194	Multiplying a decimal number by a whole number
82	196	Estimating answers to problems involving numbers with up to nine digits; solving equations involving decimals
83	198	Converting fractions and decimals to percents by setting up equivalent fractions
84	200	Calculating the volume of a rectangular prism using the formula $L \times W \times H$
85	202	Comparing decimal numbers in true and not true statements; comparing decimal numbers in less than and greater than problems
	204	Test 15
	204	Create a Problem 15: Hot Air III
86	206	Recognizing the pattern in a sequence of figures or pattern of shading
87	208	Recognizing three-digit <i>odd and even</i> numbers; filling in missing numbers in sequences counting by 11 or 12
88	210	Determining the <i>greatest common factor</i>
89	212	Comparing <i>positive</i> and <i>negative</i> numbers
90	214	Determining if coordinate points are on a given line
	216	Test 16
	216	Create a Problem 16: Women in the Office I
91	218	Determining numbers that are multiples of one number and factors of another
92	220	<i>Estimating</i> to the nearest dollar or whole number
93	222	Determining if a number is a <i>prime number</i>
94	224	Dividing a decimal number by a whole number
95	226	Calculating area and perimeter given coordinates on a coordinate grid; calculating the perimeter of an irregular figure
	228	Test 17
	228	Create a Problem 17: Women in the Office II
96	230	Learning the <i>Distributive Property of Multiplication</i> and the <i>Associative Property of Multiplication and Addition</i> ; learning the <i>Property of One</i> and <i>Zero Property</i>
97	232	Calculating <i>cost per unit</i>
98	234	Putting decimal numbers in order from least to greatest and greatest to least
99	236	Simplifying improper fractions as part of mixed number answers
100	238	Calculating a decimal answer in division problems when zeroes need to be added to the right of the dividend; solving word problems involving decimals
	240	Test 18
	240	Create a Problem 18: Women in the Office III
101	242	Dividing using short division
102	244	Calculating <i>averages</i>
103	246	Continuing to calculate averages; learning the abbreviations for quarts, gallons, kilograms, grams, pounds, ounces, liters, milliliters and millimeters
104	248	Filling in missing numbers in sequences counting by varying amounts
105	250	Comparing fractions in less than and greater than problems and in true and not true equations by setting up equivalent fractions; comparing fractions in word problems
	252	Third Quarter Test

Lesson Concepts

by lesson & page number

Fifth Grade

LESSON	PAGE	CONCEPT
106	254	Selecting the fraction that best represents a shaded region
107	256	Multiplying a three-digit whole or decimal number or money amount by a two-digit number
108	258	Recognizing <i>Roman Numerals</i> : I, V, X, L, C, D and M
109	260	Determining percent in word problems
110	262	Multiplying fractions and whole numbers by fractions
	264	Test 19
	264	Create a Problem 19: Moving I
111	266	Filling in missing numbers in a sequence of decimal numbers
112	268	Converting percents to decimals; computing the percent of a whole number
113	270	Converting mixed numbers to decimal numbers by setting up equivalent fractions
114	272	Reading maps drawn to scale
115	274	Calculating the <i>mean, median and mode; stem and leaf plots</i>
	276	Test 20
	276	Create a Problem 20: Moving II
116	278	Solving problems using data displayed as percent pie graphs
117	280	Writing probabilities as lowest-terms fractions
118	282	Determining the reciprocal of a whole number or fraction
119	284	Dividing a three-digit divisor into a three- or four-digit dividend with a one-digit quotient
120	286	Determining where to place the decimal when multiplying and dividing decimal numbers by powers of ten
	288	Test 21
	288	Create a Problem 21: Moving III
121	290	Recognizing the <i>thousandths</i> place; rounding decimal numbers to the nearest tenth or hundredth
122	292	Subtracting fractions with regrouping
123	294	Determining negative numbers using coordinate points
124	296	Determining the equation that represents a problem and the equation that solves it
125	298	Selecting the decimal or percent that best represents a shaded region
	300	Test 22
	300	Create a Problem 22: New Pool I
126	302	Using multiplication and division to cross simplify fraction problems
127	304	Converting mixed numbers to improper fractions
128	306	Dividing a two-digit divisor into a three-digit dividend with a two-digit quotient
129	308	Dividing fractions
130	310	Solving word problems involving percent
	312	Test 23
	312	Create a Problem 23: New Pool II
131	314	Computing products involving two decimal numbers
132	316	Continued – Computing products involving two decimal numbers
133	318	Solving word problems involving the multiplication of fractions
134	320	Calculating the <i>area of a parallelogram</i>
135	322	Calculating averages involving decimals or fractions
	324	Test 24
	324	Create a Problem 24: New Pool III
136	326	Converting fractions to decimals using division
137	328	Calculating the <i>surface area</i> of a rectangular prism
138	330	Calculating using exponents
139	332	Multiplying a three-digit number by a three-digit number
140	334	Identifying the equation that represents a line on a coordinate graph
	336	Fourth Quarter Test

Lesson Concepts

by lesson & page number

Fifth Grade

LESSON	PAGE	CONCEPT
141	338	Dividing a two-digit divisor into a three-digit dividend with a one-digit quotient
142	340	Computing expected numbers based on probabilities
143	342	Determining the rule that creates a pattern
144	344	Calculating the <i>area of a triangle</i>
145	346	Calculating the circumference and area of a circle; recognizing π (<i>pi</i>) and <i>squared</i>
348 Year-End Test 1		
146	350	Simplifying division problems using powers of ten
147	352	Dividing a decimal number by a decimal number
148	354	Arranging fractions, decimals and mixed numbers on a number line
149	356	Computing sales tax
150	358	Adding positive and negative integers
360 Year-End Test 2		
151	362	Continued – Adding positive and negative integers
152	364	Calculating the area of an irregular figure
153	366	Multiplying and dividing mixed numbers
154	368	Subtracting positive and negative integers
155	370	Continued – Subtracting positive and negative integers