

Scope & Sequence of Lessons & Activities

by lesson number

Third Grade

Lesson Concept

PLACE VALUE AND COUNTING

Place value

- 1 Tens and ones place
- 12 Hundreds places
- 43 Thousands place
- 100 Expanded notation for numbers less than 10,000
- 150 Numbers less than a million

Recognizing number words

- 3 Recognizing the ordinal numbers
- 9 Recognizing numbers less than 100
- 27 Recognizing numbers less than 1000 with zeros
- 49 Recognizing numbers less than 10,000 with hundreds place > zero
- 79 Recognizing any number less than 10,000

Series and Patterns

- 2 Recognizing a sequence counting by 1, 2, 5 and 10
- 6 Filling in missing numbers when counting by 1, 2, 5 and 10
- 37 Recognizing a sequence counting by 3, 4, and 10
- 48 Filling in missing numbers when counting by 3, 4, and 10
- 97 Recognizing a sequence counting by 5 and 6
- 113 Filling in missing numbers when counting by 5 and 6
- 155 Filling in missing numbers when the differences form a pattern

Putting things in order

- 4 Putting 3 two-digit numbers in order from least to greatest
- 13 Putting 4 two-digit numbers in order from least to greatest
- 38 Putting 3 three-digit numbers in order from least to greatest
- 53 Putting 4 two or three-digit numbers in order from greatest to least
- 104 Putting 3 four-digit numbers in order

ADDITION OF WHOLE NUMBERS

Addition facts

- 1 Sums up to 10
- 6 Sums up to 13
- 13 Sums up to 18
- 45 Recognizing addition and subtraction fact families
- 1 Addition of one or two-digit numbers, without regrouping
- 7 Addition of 2 two-digit numbers, regrouping to sums of 10
- 8 Addition of 3 two-digit numbers, horizontally
- 12 Addition of 2 or 3 three-digit numbers, horizontally or vertically, without regrouping
- 14 Addition of two-digit numbers, with regrouping sums to 13
- 19 Addition of two-digit numbers, with regrouping sums to 18
- 29 Addition of three-digit numbers, with regrouping sums to 10s
- 34 Addition of three-digit numbers, with regrouping sums to 10s or 100s
- 41 Addition of three-digit numbers, with regrouping twice
- 43 Addition of four-digit numbers
- 67 Addition with grouping sums >19 and <30

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Lesson Concept

SUBTRACTION OF WHOLE NUMBERS

Subtraction facts

- 1 Learning the subtraction facts up through ten
- 17 Learning the subtraction facts up to 13
- 24 Learning the subtraction facts up to 18

Multiple Digit Numbers

- 1 Subtracting two-digit numbers, no regrouping
- 12 Subtracting three-digit numbers, no regrouping
- 23 Subtracting two-digit numbers, regrouping to 13
- 42 Subtracting three-digit numbers, regrouping only with tens and no zero in the tens
- 42 Subtracting two-digit numbers, regrouping to 18
- 43 Subtracting four-digit numbers, regrouping only with tens
- 47 Subtracting three or four-digit numbers, regrouping with tens or hundred
- 52 Subtracting three or four-digit numbers, regrouping twice
- 64 Subtracting three or four-digit numbers, regrouping twice with 0 or 1 in tens or hundreds place
- 136 Subtracting four-digit numbers, regrouping three times

MULTIPLICATION OF WHOLE NUMBERS

Multiplication facts

- 39 Learning the multiplication facts with 0, 1 or 2 as a factor
- 46 Learning the multiplication facts with products to 20 and 5 as a factor
- 53 Learning the multiplication facts with 10, 11 and 12 as factors
- 68 Learning the multiplication facts with products up to 30
- 97 Learning the multiplication facts with products up to 40
- 113 Learning the multiplication facts with products up to 50
- 131 Learning the multiplication facts with products up to 81

Multiple Digit Numbers

- 61 Multiplying with one-digit multiplier and two-digit multiplicand, without regrouping
 - 73 Multiplying with one-digit multiplier and two-digit multiplicand, regrouping
 - 91 Multiplying with one-digit multiplier and three-digit multiplicand, without regrouping or regrouping once
 - 131 Multiplying with one-digit multiplier and three-digit multiplicand, regrouping twice
-
- 71 Learning multiplication and division fact families
 - 117 Learning multiples

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Lesson Concept

Activity Concept

DIVISION OF WHOLE NUMBERS

Division facts

- 58 Learning dividends to 10
- 59 Learning dividends to 14
- 71 Learning dividends to 20
- 94 Learning dividends to 10 with a remainder
- 96 Learning dividends less than 50 with a factor of 5
- 111 Learning dividends to 20 with a remainder
- 117 Learning dividends to 30 and multiples of 10, 11 and 12
- 142 Learning dividends less than 50
- 151 Learning dividends to 81

Factors

- 143 Learning factors
- 144 Learning prime factors

Two or three-digit dividend; one-digit divisor

- 101 Two-digit dividend, two-digit quotient, no remainder or regrouping
- 132 Three-digit dividend, two-digit quotient, no remainder or regrouping

Two-digit dividend; two-digit divisor

- 118 Dividend less than 50, one-digit quotient, no remainder or regrouping
- 153 Dividend less than 100, one-digit quotient, no remainder or regrouping

FRACTIONS

- 31 One-half of a number less than 20
- 54 Fractions modeled with shading or groups of figures
- 66 Defining numerator and denominator
- 66 Select the fraction that matches a given model
- 82 Fractions in word problems
- 109 The whole is the sum of its parts
- 137 Fractions in word problems with the word "not"
- 140 Addition and subtraction of fractions with models and filling in missing numbers
- 147 Comparing fractions
- 148 Equivalent fractions using shaded models
- 149 Equivalent fractions using money

MONEY

Coins

- 16 Recognizing coins - quarter, dime, nickel and penny
- 16 Change equivalents for pennies, nickels and dimes
- 44 Change equivalents for a dollar with pennies, nickels and dimes
- 82 Change equivalents for a dollar with quarters and half dollars
- 146 Calculating change with the fewest coins

Addition, Subtraction, Multiplication and Division

- 33 Add dollar amounts, no regrouping
- 33 Subtract dollar amounts, no regrouping

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Lesson Concept

- 95 Multiply money, without regrouping or regrouping once
- 131 Multiply money, regrouping twice
- 134 Division of money amounts

Word problems

- 22 Computing change
- 114 Mental multiplication of coins
- 114 Calculating unit cost of items
- 33 Recognize money words
- 134 Rounding to the nearest dollar

TIME - CLOCK

Telling time

- 18 Telling time to the minute and half past
- 65 Telling time before the hour; one hour equals 60 minutes
- 78 Telling time a quarter to and a quarter past the hour; estimating time

Elapsed time

- 89 Elapsed time in hours, on the hour
- 112 Elapsed time, am and pm
- 152 Elapsed time in minutes, across the 12

TIME - CALENDAR

- 26 Recognizing days of the week; calculating the date within a week in the future
- 26 One week equals 7 days
- 27 Recognizing months of the year
- 27 One year equals 12 months
- 84 Calculating the date within a week, in the past

ODD AND EVEN NUMBERS

- 31 Recognizing odd and even numbers up to 20
- 46 Recognizing odd and even numbers up to 100
- 63 Recognizing sets with odd and even numbers

WORD PROBLEMS

- 10 Drawing a map
- 11 One-step word problems with addition and subtraction
- 15 Solving word problems: sufficient information
- 25 Solving word problems involving deductive reasoning
- 32 Word problems with comparison words and subtraction
- 40 Two-step word problems with addition and subtraction
- 68 Two-step word problems with addition, subtraction and multiplication
- 70 Solving word problems: putting a series of events in order
- 75 Solving word problems using estimating
- 82 Solving word problems involving fractional parts
- 83 Solving word problems involving time: faster and slower
- 87 Solving word problems involving division, given models
- 88 Two-step word problems with addition, subtraction, multiplication and division
- 96 Solving three-step word problems

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Activity Concept

- 110 Solving word problems: what information is needed
- 111 Solving division word problems with remainders
- 123 Solving word problems using reasoning
- 126 Solving word problems with 2 to 1 and 3 to 1 ratios
- 151 Solving word problems: determine the question

MEASUREMENTS

- 32 Measuring devices
- 50 Names of units to measure weight, distance and volume
- 62 Estimating weight, distance
- 63 Estimating volume
- 65 One hour equals 60 minutes
- 74 Dozens, inches, feet and yards
- 83 Gallons, quarts, pints, cups; tons, pounds, ounces; meters and centimeters
- 121 Two-step problems; abbreviations for measurement units
- 125 Discerning shorter, longer, lighter and heavier

GEOMETRY

2-Dimensional figures

- 8 Recognizing shapes - circle, triangle, rectangle, square
- 41 Learning a square is also a rectangle; defining a right angle and a square
- 56 Recognizing lines and line segments
- 77 Recognizing shapes with common characteristics
- 106 Polygon, quadrilateral, parallelogram, pentagon, hexagon, octagon
- 119 Parts of a circle
- 120 Similar or congruent figures; flips, slides & turns
- 128 Intersecting, parallel or perpendicular lines
- 129 Diagonal lines
- 139 Equilateral, isosceles and scalene triangles; the parts of a triangle

3-Dimensional figures

- 69 Cube, cone, cylinder, rectangular prism, pyramid, sphere
- 141 Faces, edges and vertices

Area, Perimeter and Volume

- 72 Calculating area in square units
- 86 Calculating perimeters to the nearest inch or centimeter
- 116 Calculating perimeters of figures drawn to scale
- 124 Calculating area of rectangles drawn to scale
- 135 Calculating volume of figures with one layer of cubes
- 145 Calculating volume of figures with several layers of cubes

- 77 Patterns of shapes
- 130 Patterns of shading
- 55 Lines of symmetry
- 56 Measuring lines to the nearest inch or centimeter
- 108 Measuring lines to the nearest half-inch or half-centimeter
- 120 Flips, slides and turns
- 138 Angles

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Lesson Concept

PRE-ALGEBRA

- 4 Mathematical symbols $>$, $<$, $=$
- 21 Evaluating number sentences using $<$ less than, $>$ greater than, $=$ equal and \neq not equal
- 99 Selecting $<$ less than, $>$ greater than, $=$ equal and \neq not equal to fill blank in number sentence

- 9 Calculate a number one more or less than a given number
- Number sentences**
- 28 Learning the order of operations when parentheses are involved: addition or subtraction
- 92 Learning the order of operations when parentheses are involved: multiplication or division
- 107 Learning the order of operations when parentheses are involved: on both sides of the equal symbol

- 36 Solve for an unknown: addition or subtraction
- 76 Solve for an unknown: after performing one operation
- 81 Solve for an unknown: multiplication or division

- 57 Select the correct pair to complete a number sentence
- 76 Select the correct process for an equation
- 105 Select the correct equation to solve a problem
- 107 Substitute numerical values for letters in an equation
- 122 Change a number sentence from \neq not equal to $=$ equal

- 80 Recognizing number patterns in a chart
- 98 Select the two-digit number closest to a given number
- Estimating**
- 60 Rounding two-digit numbers to the nearest 10
- 90 Rounding three-digit numbers to the nearest 100
- 90 Rounding four-digit numbers to the nearest 1000
- 95 Rounding three numbers to the nearest 10 or four-digit numbers to the nearest 100

- 75 Estimating in word problems to the nearest 10
- 85 Estimating a range in a word problem
- 115 Estimating in word problems to the nearest 100 or 1000

PROBABILITY

- 5 Determining level of probability
- 30 Calculating possible combinations

GRAPHS

- 5 Interpreting pie graphs
- 20 interpreting bar graphs
- 35 interpreting picture graphs

Scope & Sequence of Stretches

by concept, with lesson and page numbers

Third Grade

Lesson	Pg.	Stretch Concepts
NUMERATION		
2	4	Arranging numbers on a grid so sums add to 10
6	14	Arranging numbers on a grid so sums add to 12
16	38	Arranging numbers on a grid so sums add to 14
21	50	Arranging numbers on a grid so sums add to 16
28	66	Arranging numbers on a grid so sums add to 17
36	86	Arranging numbers on a grid so sums add to 18
82	196	Arranging numbers so no two consecutive numbers are adjacent
93	222	Arranging numbers so no two consecutive numbers are adjacent
116	278	Arranging numbers so no two consecutive numbers are adjacent
116	278	Arranging numbers so sums of columns, rows, diagonals is 10
9	20	What 3 consecutive numbers add to 66
35	82	What 4 odd numbers equal 20
48	114	What 3 odd 2-digit numbers equal 47
57	136	What 3 even 2-digit numbers add to 66
1000	238	What 2-digit number is 3 times the sum of its digits
85	202	Move a line in a Roman numeral number to make a true equation
125	298	Move a line in a Roman numeral number to make a true equation
SORTING		
8	18	Order in a foot race
14	32	Order of arrival of 3 people
27	64	Order of position of 4 houses
32	76	Order of arrival of 4 people
61	146	Order 5 people from tallest to shortest
74	176	Order of ribbons given to three dogs
42	100	Match up positions of 3 players on a football team
47	112	Match up first and last names of 3 people
53	126	Match up professions of 3 people
59	140	Match up toys of 3 boys
66	158	Match up favorite subjects of three students
88	210	Match up birthdays of 3 people
99	236	Match up favorite drinks of 3 kids
108	258	Match up favorite sports of 3 girls
118	282	Match up 3 dogs with 3 boys
131	314	Match up 3 pets with 3 owners' names
131	314	Match up 6 people in teams of 2 with names
MONEY		
45	106	How many days does it take to get \$5.00 in a jar
55	130	20 coins add to \$1.35 how many of each coin
92	220	12 coins add to \$.97 how many of each coin
105	250	How many 10, 11, and 12 cent stamps given 8 stamps and 87 cents
122	292	How many 2, 3, and 4 cent stamps given 6 stamps and 17 cents
130	310	How many 5, 8, and 10 cent stamps given 9 stamps and 72 cents

Scope & Sequence of Stretches

by concept, with lesson and page numbers

Third Grade

Lesson	Pg.	Stretch Concepts
139	310	How many 4, 5, and 6 cent stamps given 9 stamps and 46 cents
139	310	How many 6, 7, and 8 cent stamps given 6 stamps and 41 cents
TIME - CALENDAR		
12	28	Calendar - given the 48th day in the year, what is the date
22	52	Calendar - given the 93rd day in the year, what is the date
38	90	Calendar - given the 130th day in the year, what is the date
54	128	Calendar - given the 200th day in the year, what is the date
MEASUREMENTS		
64	152	Which of 3 flights is fastest (3 different measures of time)
142	340	Which of 3 buckets holds the most water (3 different measure of water)
GEOMETRY		
4	8	Forming 2 squares by moving 2 lines
17	40	Forming 3 squares by moving 1 line
58	138	Forming 3 squares by moving 3 lines
76	182	Forming 6 triangles by moving 4 lines
87	208	Forming 2 rectangles by moving 3 lines
104	248	Forming 3 squares by moving 3 lines
111	266	Forming 6 squares by moving 2 lines
115	274	Forming 3 squares by moving 8 lines
136	326	Forming 2 squares by removing 2 lines
147	352	Forming 3 squares by moving 5 lines
50	118	Forming 5 triangles using 10 lines
46	110	Moving 2 circles on a drawing to turn the image upside down
72	172	Moving 3 circles on a drawing to turn the image upside down
41	98	Recognizing multiple triangles in a complex figure
60	142	Recognizing multiple rectangles in a complex figure
86	206	Recognizing multiple squares in a complex figure
126	302	Recognizing multiple triangles in a complex figure
151	362	Recognizing multiple squares in a complex figure
78	186	Continuing patterns using triangular shapes
90	214	Cutting up graph paper to make 5 open cubes
132	316	Which of the 4 figures will fold up to make a cube
145	346	How long is piece of string wrapped around a cube
145	346	How long is piece of string wrapped around a rectangular prism
REASONING		
3	6	How much time required to cut an item into 10 pieces
5	10	How many handshakes between 6 people
7	17	How many dogs
18	42	How many cats
26	62	How many hits in a baseball game
34	80	How many trees; total 12
37	88	How many baseball cards between 4 people
43	102	How many fish were caught

Scope & Sequence of Stretches

by concept, with lesson and page numbers

Third Grade

Lesson	Pg.	Stretch Concepts
52	124	How many birds
62	148	How many handshakes between 5 people
69	164	How many books if one has 6 more than another; total 12
81	194	How many books if one has 1 more than another, total 17
29	68	How to exactly fill a bottle
10	22	How much is the cost to cut something into 6 pieces
25	58	How much is the score on darts
96	230	How many men and cows given 24 legs and 7 heads
106	254	How many 2 and 3-legged stools given given 36 legs and 10 stools
20	46	True, false or not enough information based on 3 statements
51	122	True, false or not enough information based on 2 statements
67	160	True, false or not enough information based on 2 statements
80	190	True, false or not enough information based on 2 statements
84	200	True, false or not enough information based on 3 statements
98	234	True, false or not enough information based on 3 statements
113	270	True, false or not enough information based on 2 statements
120	286	True, false or not enough information based on 3 statements
133	318	True, false or not enough information based on 3 statements
148	354	True, false or not enough information based on 3 statements

PRE-ALGEBRA

11	26	Equation: letters in place of numbers (horiz. add & subtract)
19	44	Equation: letters in place of numbers (horiz. add & subtract)
24	56	Equation: letters in place of numbers (horiz. add & subtract)
31	74	Equation: letters in place of numbers (horiz. add & subtract)
39	92	Equation: letters in place of numbers (horiz. add & subtract)
40	94	Equation: letters in place of numbers (horiz. addition)
44	104	Equation: letters in place of numbers (horiz. add & subtract)
49	116	Equation: letters in place of numbers (horiz. add & subtract)
56	134	Equation: letters in place of numbers (horiz. add & subtract)
63	150	Equation: letters in place of numbers (horiz. add & subtract)
68	162	Equation: letters in place of numbers (horiz. add, subtract & multiply)
70	166	Equation: letters in place of numbers (horiz. add, subtract & multiply)
73	174	Equation: letters in place of numbers (horiz. add, subtract & multiply)
75	178	Equation: letters in place of numbers (horiz. repeated add, subtract & multiply)
83	198	Equation: letters in place of numbers (horiz. add, subtract & multiply)
89	212	Equation: letters in place of numbers (horiz. repeated add, subtract & multiply)
94	224	Equation: letters in place of numbers (horiz. subtract & multiply)
101	242	Equation: letters in place of numbers (horiz. repeated add, subtract & multiply)
107	256	Equation: letters in place of numbers (horiz. repeated add, subtract & multiply)
110	262	Equation: letters in place of numbers (horiz. add, subtract & divide)
114	272	Equation: letters in place of numbers (horiz. repeated add, subtract & multiply)
119	284	Equation: letters in place of numbers (horiz. add, subtract & multiply)
124	296	Equation: letters in place of numbers (horiz. add, subtract & multiply)
129	308	Equation: letters in place of numbers (horiz. add, subtract & multiply)
134	320	Equation: letters in place of numbers (divide & multiply)
141	338	Equation: letters in place of numbers (horiz. add, subtract & divide)
149	356	Equation: letters in place of numbers (horiz. subtract, multiply & divide)
149	356	Equation: letters in place of numbers (horiz. subtract & multiply)

Scope & Sequence of Stretches

by concept, with lesson and page numbers

Third Grade

Lesson	Pg.	Stretch Concepts
13	30	Sum is 24, difference is 6; what are the two numbers
79	188	Sum is 51, difference is 13; what are the two numbers
144	344	Sum is 160, difference is 8; what are the two numbers
91	218	What number is greater than 60, less than 80 and its digits add to 13
30	70	What number is as much greater than 25 as it is less than 81
95	226	Write an equation that equals 30, using the same number 3 times
135	322	What number divided by various other numbers has specified remainders
95	226	Using 1-9, write 3 subtraction problems where answers are consecutive numbers
1	2	Numerical values represented by 3 symbols
77	184	Numerical values represented by 5 symbols
112	268	How much are contents if bottle is so much of total price
137	328	How much are contents if bottle is so much of total price
102	244	Move boxes to balance a scale (numbers to balance an equation)
117	280	Move boxes to balance a scale (numbers to balance an equation)
121	290	Move boxes to balance a scale (numbers to balance an equation)
127	304	Move boxes to balance a scale (numbers to balance an equation)
128	306	Move boxes to balance a scale (numbers to balance an equation)
109	260	Move boxes to find the heaviest box
140	334	Moving 3 people with a raft to cross the river
23	54	Creating a chart to calculate number of stamps owned by 2 boys
97	232	Creating a chart to calculate number of cars owned by 2 boys
143	342	Creating a chart to calculate number of clothes owned by 2 girls

Create A Problem (Back of Tests)

by test, with title, lesson concept and page numbers

Third Grade

Test	Page	Concepts
Test 01	12	Word and Time Problems - how many and how long - A Day at the Pool
Test 02	24	Word and Time Problems - minutes - Soccer Practice
Test 03	36	Word Problems - how many and how long - Music By Memory
Test 04	48	Word Problems - enough information and how many - Visit to the Pet Store
Test 05	60	Word Problems - how many more than - Going to the Fair
Test 06	72	Word Problems - numbers and days - Model Airplanes
Test 07	96	Word Problems - distances and judgement - Letters Make A Difference
Test 08	108	Word Problems - likelihood - Rene's Stickers
Test 09	120	Word Problems - even and odd numbers - What's Your Address
Test 10	132	Word Problems - days and distances - Maria Goes Fishing
Test 11	144	Word Problems - locations and ages - Dewain's Best Game
Test 12	156	Word Problems - fractions and estimates - Iowa Hogs
Test 13	180	Money Problems - arranging in order - Rides at the Fair
Test 14	192	Word Problems - fractions - Planting Tulips
Test 15	204	Word Problems - creating your own problems - Mitch and His Zoo
Test 16	216	Word Problems - create two step problems - Carlos' Marbles
Test 17	228	Money Problems - estimating and creating - James needs new Shoes
Test 18	240	Time and Weight - working hours and loads - Delivering the Mail
Test 19	264	Word Problems - dividing into sets; finish the problem - Alex and her Books
Test 20	276	Reasoning and Money Problems - making change - More than one way to solve
Test 21	288	Time and Money - working hours and costs - Bring Your Pet to Work
Test 22	300	Observation; Following Instruction - Looking for Info on a Purchase Order
Test 23	312	Time Calendar - scheduling events - The Vegetarian Cookbook
Test 24	324	Money Problems - income per item - The Fund-Raising Party

Lesson Concepts

by lesson & page number

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#	Pg	Lesson Concept
1	2	Tens and ones place; add and subtract two-digit numbers; addition and subtraction fact to 10
2	4	Recognizing a sequence counting by one, two, five or ten
3	6	Recognizing ordinals first through nineteenth counting from the left or right
4	8	Putting three numbers in order from least to greatest; mathematical symbols $>$, $<$, $=$
5	10	Calculating probability; interpreting information in pie graphs
	12	Test 1 & Create A Problem: A day at the pool
6	14	Filling in missing numbers counting up or down by 1, 2, 5 or 10; addition facts of 11, 12, 13
7	16	Adding 2 two-digit numbers using the facts of ten, with regrouping
8	18	Circles, triangles, squares and rectangles; adding and subtracting two-digit numbers horizontally
9	20	Any number or number word less than 100; finding a number more or less than a given number
10	22	Using a map and directions to find a location
	24	Test 2 & Create A Problem: Soccer practice
11	26	Solving word problems using addition or subtraction
12	28	Learning the hundreds place; adding and subtracting three-digit numbers
13	30	Learning the addition facts of 14, 15, 16, 17 and 18; putting 4 numbers in order
14	32	Adding 2 or 3 two-digit numbers, with regrouping using facts of 11, 12, 13
15	34	Evaluating information to see if it is sufficient to answer the question
	36	Test 3 & Create A Problem: Music by memory
16	38	Recognizing coins; learning change equivalents
17	40	Learning the subtraction facts of 11, 12, 13
18	42	Telling time to the minute and half past the hour
19	44	Adding 2 or 3 two-digit numbers, with regrouping using facts of 14, 15, 16, 17, 18
20	46	Interpreting information in vertical and horizontal bar graphs
	48	Test 4 & Create A Problem: A visit to the pet store
21	50	Evaluating number sentences using $<$ $>$ $=$ equal and \neq not equal; defining equation
22	52	Learning which coins to use to buy something; computing change in word problems
23	54	Subtracting two-digit numbers, with regrouping using the facts of 10, 11, 12, 13
24	56	Learning the subtraction facts of 14, 15, 16, 17, 18
25	58	Using deductive reasoning to solve a word problem
	60	Test 5 & Create A Problem: Going to the fair
26	62	Calculating the date within one week in the future; learning the days of the week
27	64	Recognizing any number less than 1000; learning the order of the months of the year
28	66	Learning the order of operations when parentheses are involved: addition and subtraction
29	68	Adding three-digit numbers; regrouping only to the tens place
30	70	Calculating possible combinations
	72	Test 6 & Create A Problem: Model airplanes
31	74	Recognizing odd and even numbers up to 20; calculating one half of a group
32	76	Solving word problems involving comparisons
33	78	Recognizing money words and symbols
34	80	Adding three-digit numbers; regrouping once to the tens or hundreds place
35	82	Interpreting picture graphs
	84	First Quarter Test

Lesson Concepts

by lesson & page number

Third Grade

#	Pg	Lesson Concept
36	86	Calculating missing numbers on either side of the equal symbol in number sentences
37	88	Recognizing a sequence counting by 3, 4 or 10
38	90	Comparing and putting three-digit numbers in order
39	92	Multiplying single-digit numbers by 0, 1, or 2
40	94	Solving two-step word problems
	96	Test 7 & Create A Problem: Letters make a difference
41	98	Adding three-digit numbers; regrouping twice; defining a right angle and a square
42	100	Subtracting three-digit numbers, with regrouping in the tens place using facts of 14-18
43	102	Learning about the thousands place; adding and subtracting four-digit numbers
44	104	Learning change equivalents up to one dollar with pennies, nickels and dimes
45	106	Recognizing basic addition and subtraction fact families
	108	Test 8 & Create A Problem: Rene's stickers
46	110	Multiplication facts with products up to 20; recognizing odd and even numbers less than 100
47	112	Subtracting three-digit numbers with regrouping in the tens or hundreds place
48	114	Fill in the missing numbers in a sequence counting by 3, 4 or 10
49	116	Recognizing numbers less than 10,000 when the hundreds digit is greater than zero
50	118	Learning standard units of weight, distance and volume
	120	Test 9 & Create A Problem: What's your address?
51	122	Addition of money amounts, with regrouping
52	124	Subtracting 2 three or four-digit numbers, regrouping twice
53	126	Learning multiplication facts of 10, 11 and 12; 4 three-digit numbers in order from greatest to least
54	128	Solving fractional problems modeled with shading and groups of figures
55	130	Recognizing lines of symmetry
	132	Test 10 & Create A Problem: Maria goes deep sea fishing
56	134	Labeling lines and line segments; measuring a line segment to the nearest inch or centimeter
57	136	Using sets of numbers (within parentheses) to complete number sentences
58	138	Dividing numbers up to 10 by splitting into equal parts and using repeated subtraction
59	140	Dividing numbers up to 14 by splitting into equal parts and using repeated subtraction
60	142	Rounding numbers less than 100 to the nearest 10
	144	Test 11 & Create A Problem: Dewain's best game
61	146	Multiplying a one-digit by a two-digit number, no regrouping
62	148	Estimating distance and weight measurements
63	150	Estimating volume measurements; recognizing a set with odd or even numbers
64	152	Subtracting three-digit numbers, regrouping twice with zeroes or a one in the tens place
65	154	Telling time before the hour; learning that an hour has 60 minutes
	156	Test 12 & Create A Problem: Jake's Iowa hogs
66	158	Defining numerator and denominator; selecting a fraction that matches a given model
67	160	Adding three numbers where the sum of a single place is greater than 19 and less than 30
68	162	Solving word problems using multiplication; learning multiplication facts with products to 30
69	164	Recognizing three-dimensional solid figures
70	166	Putting a series of events in order
	168	Second Quarter Test

Lesson Concepts

by lesson & page number

Third Grade

#	Pg	Lesson Concept
71	170	Learning division facts with dividends to 20; recognizing multiplication and division fact families
72	172	Computing the area of a plane figure given in square units
73	174	Multiplying a one-digit number by a two-digit number, with regrouping
74	176	Learning measurement equivalents for yards, feet and inches; the concept of a dozen
75	178	Rounding to the nearest 10; estimating answers to word problems
	180	Test 13 & Create A Problem: Rides at the fair
76	182	Using the correct process symbol in an equation; filling in a missing number in an equation
77	184	Completing a pattern of shapes; recognizing shapes with common characteristics
78	186	Telling time a quarter to and a quarter past on the clock; estimating time without marks on the clock
79	188	Recognizing any numbers and number words less than 10,000
80	190	Completing number patterns and relationships shown in a chart
	192	Test 14 & Create A Problem: Planting tulips
81	194	Solving for an unknown in an equation when multiplying and dividing
82	196	Solving fractional part word problems; how many quarters or half-dollars equal a dollar
83	198	Solving word problems involving time; abbreviations for common measurement units
84	200	Calculating the date within one week in the past
85	202	Estimating answers within a range
	204	Test 15 & Create A Problem: Mitch and his zoo
86	206	Calculating perimeters to the nearest inch or centimeter
87	208	Solving division word problems given models
88	210	Solving division word problems
89	212	Calculating the time in the future or past when the elapsed time is in hours
90	214	Rounding to the nearest hundred or thousand
	216	Test 16 & Create A Problem: Carlos' marbles
91	218	Multiplying a three-digit by a one-digit number, regrouping once
92	220	Learning the order of operations within parentheses: multiplication and division
93	222	Dividing a number less than 11, with remainders
94	224	Dividing a number less than 11, with remainders
95	226	Multiplying money by a one-digit number; regrouping once; rounding to the nearest 10 or 100
	228	Test 17 & Create A Problem: James needs new shoes
96	230	Learning division facts with 5 as a factor; solving three-step word problems
97	232	Multiplication facts with products up to 40; recognizing a number sequence counting by 5 or 6
98	234	Finding the two-digit number closest to a given number
99	236	Evaluating number sentences with missing operation symbols of $<$, $>$, = equal, or \neq not equal
100	238	Writing numbers less than 10,000 in multiple forms, including expanded notation
	240	Test 18 & Create A Problem: Delivering the mail to Hailey
101	242	Division with one-digit divisor, two-digit dividend & two-digit quotient, without regrouping or remainders
102	244	Division with one-digit divisor, two-digit dividend & two-digit quotient, without regrouping or remainders
103	246	Division with one-digit divisor, two-digit dividend & two-digit quotient, without regrouping or remainders
104	248	Comparing and putting 3 four-digit numbers in order from greatest to least
105	250	Choosing the correct equation to solve a word problem
	252	Third Quarter Test

Lesson Concepts

by lesson & page number

Third Grade

#	Pg	Lesson Concept
106	254	Defining polygon, quadrilateral, parallelogram, pentagon, hexagon and octagon shapes
107	256	Creating equations by substituting numbers for letters; performing operations indicated by parentheses
108	258	Measuring a line segment to the nearest half-inch or half-centimeter
109	260	Learning that the whole is the sum of its parts
110	262	Identifying the information needed to answer a question in a word problem
	264	Test 19 & Create A Problem: Alex and her books
111	266	Calculating quotients with remainders, dividends to 20; word problems with division and remainders
112	268	Calculating elapsed time involving A.M. and P.M.
113	270	Filling in missing numbers in a sequence counting by 5 or 6; multiplication facts with products to 50
114	272	Learning change equivalents; multiplying coins; calculating unit cost
115	274	Estimating answers to word problems by rounding to the nearest hundred or thousand
	276	Test 20 & Create A Problem: More than one way to solve a problem
116	278	Calculating perimeter of a shape drawn to scale; abbreviations for distance; km = 1000 meters
117	280	Recognizing multiples; division facts with dividends to 30 that are multiples of 10, 11 and 12
118	282	Division with a two-digit divisor and two-digit dividends less than 50
119	284	Learning the parts of a circle
120	286	Similar and congruent figures' recognizing flips, slides and turns
	288	Test 21 & Create A Problem: Bring your pet to work day?
121	290	Abbreviations for units of weight and volume; two-step measurement problems
122	292	Changing an inequality to an equation by moving values in the number statement
123	294	Solving word problems using reasoning
124	296	Computing the area of a rectangle that is drawn to scale
125	298	Recognizing the shorter or longer distance, and the lighter or heavier weight
	300	Test 22 & Create A Problem: Looking for information on a purchase order
126	302	Calculating answers to word problems using 2 to 1 and 3 to 1 ratios
127	304	Calculating answers to word problems using 2 to 1 and 3 to 1 ratios
128	306	Defining parallel, intersecting and perpendicular lines
129	308	Defining diagonal lines; recognizing parallel and perpendicular lines; converting centimeters
130	310	Recognizing changing patterns in a sequence of figures
	312	Test 23 & Create A Problem: The vegetarian cookbook
131	314	Learning the multiplication facts with products up to 81; multiplying and regrouping twice
132	316	Dividing: one-digit divisor, three-digit dividend and two-digit quotient, no regrouping or remainders
133	318	Dividing: one-digit divisor, three-digit dividend and two-digit quotient, no regrouping or remainders
134	320	Rounding to the nearest dollar; dividing dollar amounts
135	322	Computing the volume of one layer of cubes
	324	Test 24 & Create A Problem: The fund-raising party
136	326	Subtracting four-digit numbers
137	328	Solving word problems with fractional parts and the word "not"
138	330	Defining line, line segment and ray; line notation; recognizing right, acute and obtuse angles
139	332	Equilateral, isosceles and scalene triangles; learning the parts of a triangle
140	334	Adding and subtracting simple fractions
	336	Fourth Quarter Test

Lesson Concepts

by lesson & page number

Third Grade

#	Pg	Lesson Concept
141	338	Recognizing faces, edges and vertices of polyhedrons
142	340	Division and multiplication facts with dividends less than 50
143	342	Determining factors
144	344	Determining prime factors
145	346	Computing the volume of several layers of cubes
	348	Year End Test 1
146	350	Figuring change using the fewest coins, with quarters, dimes, nickels and pennies
147	352	Comparing the value of fractions
148	354	Determining equivalent fractions using models
149	356	Determining equivalent fraction using money
150	358	Recognizing any whole number greater than zero and less than a million
	360	Year End Test 2
151	362	Determining the question, given the story and the answer; division facts with dividends to 81
152	364	Computing elapsed time across 12 on the clock
153	366	Dividing with a two-digit divisor and two-digit dividend
154	368	Dividing with a two-digit divisor and two-digit dividend
155	370	Filling in missing numbers in a sequence counting by increasing or decreasing amounts

*We sometimes find it necessary to change problems or answers in the Excel Math Lessons.
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