

Scope and Sequence

- Math K–4
- Intermediate 3–5
- Courses 1–3

SAXON MATH[™] K-4

Scope and Sequence

The Scope and Sequence for the *Saxon K-4* mathematics series is intended to help educators view the progression of mathematical topics throughout the series. Topics are grouped into nine strands:

1. Numbers and Operations
2. Measurement
3. Geometry
4. Patterns, Algebra, and Functions
5. Statistics, Data Analysis, and Probability
6. Problem Solving
7. Communication
8. Mathematical Reasoning
9. Connections

The locators in the Scope and Sequence identify lessons in which direct instruction of a topic is presented. The first lesson where the concept is taught is referenced, and subsequent lessons are referenced only when the concept is extended. Occasional references to spans of The Meetings are included to show the daily practice of expanding skills and concepts.

SAXON MATH™

SCOPE AND SEQUENCE

The locators in this Scope and Sequence indicate where direct instruction on each topic can be found. Locators refer to lessons and Meetings (M). In *Saxon Math K*, every tenth lesson has two parts, and in *Saxon Math 1, 2, 3, and 4* every fifth lesson has two parts; locators for these lessons are labeled -1 or -2.

	<i>Saxon Math K</i>	<i>Saxon Math 1</i>	<i>Saxon Math 2</i>	<i>Saxon Math 3</i>	<i>Saxon Math 4</i>
Numbers and Operations					
Number Sense and Numeration					
Counts by 1's	M1; 7, 41, 61	2, 20-1, 34, 99, 131	1, 76, 77	23	22
Counts backward	109	4, 34, 43, 56	M5	M1-120-2	
Counts by 2's	125; M22	47, 51, 56, 64	M14	29, 51	26
Counts by 5's	91, 92; M18	70-1, 98	32, 46, 49, 78	13, 23, 30-2, 39	22
Counts by 10's	64, 65, 67, 68; M11	43, 46, 85-1, 90-1, 131	28, 76, 77, 95-2	13, 23, 64	22, 33
Counts by 100's		93, 131, 132	76, 77, 95-2	M3-9, 17-21	97
Counts by 25's			93	36	12
Counts by 3's			M78	M41-54	30-1
Counts by 4's			M106	M51-66	26
Counts by 6's				M81-91	26
Counts by 7's				M24-41	30-1
Counts by 8's				M91-103	26
Counts by 9's				M76-85-2	30-1
Counts by 12's				M31-40-2	22
Counts by 1,000's				130-2	97
Counts by ½'s				54	14
Counts by ¼'s				M86-94	69
Counts by 11's					30-1
Matches sets and numbers	24, 42, 62, 73	2, 5, 9, 10-1, 19			
Counts and groups numbers in tens and ones	M4A; 13, 64, 65, 67, 68	46, 84, 93, 131, 133	37, 76, 113, 95-2	22, 52, 64, 67, 76	11, 13, 16, 41
Uses expanded form to represent numbers	67, 81, 113	M3-135	84	41, 104, 112	53
Writes digits 0-9	12	3, 5, 8			
Writes numbers using words		63		68, 78, 103, 106	32, 52
Reads and writes whole numbers to 30	21, 74, 111, 120-1, 130-1	3, 5, 8, 11-33	1, 4	3, 8	1
Reads and writes whole numbers to 100 (2-digit numbers above 30)		34-111	1, 4	3, 8	6
Reads and writes whole numbers to 1,000 (3-digit numbers)		112-135	74, 76	27, 34, 41, 64	25-1

	Saxon Math K	Saxon Math 1	Saxon Math 2	Saxon Math 3	Saxon Math 4
Numbers and Operations, continued					
Number Sense and Numeration, continued					
Reads and writes whole numbers to 10,000 (4-digit numbers)				64, 104	51, 52
Reads and writes whole numbers to 100,000 (5-digit numbers)				103, 130-2	51, 52
Reads and writes whole numbers to 1,000,000 (6-digit numbers)				103, 130-2	51, 52
Reads and writes whole numbers to 1,000,000,000 (9-digit numbers)					51, 52
Identifies numbers before, after, and between	48, 75	17, 52, 92			
Identifies numbers on a hundred number chart	M3, 4A	16, 34, 43, 52	1, 2, 13, 36	3, 9, 14	
Compares 1- and/or 2-digit whole numbers	71, 99, 102	9, 40-1, 92, 108	8, 81	8, 13	25-1
Orders 1- and/or 2-digit whole numbers	21, 35, 74	4, 9, 17, 20-1, 32, 92	49, 94	8, 13	25-1, 33
Compares 3-digit or larger whole numbers			81	34, 130-2	25-1, 33
Orders 3-digit or larger whole numbers			74, 77	34, 130-2	25-1, 33
Rounds numbers to the nearest ten		115-2	94, 98	18, 19, 31, 52, 62	13, 33, 119
Rounds numbers to the nearest hundred or thousand				72, 130-2	33, 119
Identifies place value for each digit in numbers to 100		85-1, 131, 133	38, 42, 76, 84	3	25-1, 33
Identifies place value for each digit in numbers to 1,000		131, 133	76, 84, 109	27, 41, 64, 76	51, 53
Identifies place value for each digit in numbers to 1,000,000				134	59
Identifies place value for each digit in numbers to 100,000,000				134	95-1
Represents 2-digit whole numbers using concrete materials and/or pictures	80-1, 132	51, 85-1, 131, 133	53, 74	15-1, 22, 37, 63, 116	70-1
Represents 3-digit or larger whole numbers using concrete materials and/or pictures		131, 133	76, 77	64	66
Identifies and describes equivalent sets	117, 118	4, 9, 82	128		
Estimates and counts collections of objects	64; M17	55-2, 84, 85-1, 131	95-2	130-2, 135	90-1, 128
Represents equivalent forms of the same number	65, 92, 113	21, 94, 101	34, 41, 42	22, 76, 94, 119, 131	5, 22, 26, 30-1, 36, 53, 97
Compares sets of objects and identifies sets with more, fewer, and the same	17, 71	9, 38, 76, 82, 108	8, 77, 81	30-2, 40-2, 55-2, A	12, 51

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Numbers and Operations, continued

Number Sense and Numeration, continued

Identifies sets with the greatest and least number of objects	58, 98	7, 9, 38	49, 74, 81	30-2, 40-2, 55-2, A	
Renames numbers using regrouping		85-2, 86	61, 63, 68, 73	22, 52, 67, 76	11, 16
Identifies multiples of a number			103, 130-1, 130-2	M71–121	3, 6, 22, 26, 29, 30-1, 97
Identifies factors of a number			115-1, 120-1, 125-1	120-2	26, 61, 94, 107, 109
Identifies prime and composite numbers				120-2	94, 96
Identifies the least common multiple of two numbers				M121–135	29
Identifies the greatest common factor of two numbers					107, 109
Squares numbers				63, 81	116, 122
Identifies perfect squares				63	116
Identifies and simplifies expressions with exponents				63	116, 117, 128
Finds square roots of perfect squares				81, D	116
Identifies and approximates square roots					122
Identifies cube roots and perfect cubes					128
Identifies rational numbers from pictures and draws pictures to show rational numbers	17, 24, 50-2	18, 55-1, 87, 107, 122	19, 23, 24, 34, 41, 83	11, 37, 40-1, 56, 130-2	17, 68, 79, 91
Locates rational numbers on a number line	109	77	25-1, 56, 94	51, 54, 55-2, 99, 123	27, 33, 88, 93, 99
Identifies even and odd numbers	125	51, 56, 58, 64, 68	13, 96, 97, 128	9	26
Identifies ordinal position	28, 37, 46, 59	11, 22, 65-2	7, 14, 16, 20-1	77	2
Identifies and creates pairs		64	37, 108	9	
Identifies dozen and half dozen		103	67	26	
Reads and writes Roman numerals				75-2	98
Identifies the approximate value of π					132

Concepts of Whole Number Operations

Shows the meaning of addition	18, 27, 50-2, 89, 119	12, 15-1, 19, 21, 25-1, 36, 94, 114	5, 10-1, 29, 44	5, 11, 15-1, 52, 53, 126	5
Acts out to show addition situations	18, 27, 50-2, 89, 119	12, 15-1, 19, 25-1	8, 10-1	11	45-1

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Numbers and Operations, continued

Concepts of Whole Number Operations, continued

Uses manipulatives to model and solve addition problems	18, 27, 50-2, 89, 119	23, 32, 58, 76, 94	20-1, 61, 104, A	15-1, 73, 74, 93	45-1
Draws pictures to model and solve addition problems	50-2, 121, 122, 126	15-1, 21, 25-1	22	11	45-1
Creates addition problem situations	27, 73, 89, 119	15-1, 25-1	8, 22	11, 35-2, 66	45-1
Writes number sentences to show addition	117	21, 25-1	22	11, 35-2, 66	45-1
Identifies addends and sums		21, 40-1, 94	10-1	5, 15-1, 20-1	5
Identifies and uses the commutative and associative properties of addition		94, 114	10-1, 58	5	5
Shows the meaning of subtraction	18, 27, 80-2, 89, 127	12, 15-1, 33, 34, 44, 101	11, 22, 29, 60-1	10-1, 11, 20-1, 35-2, 91, 92, 126	23
Acts out to show subtraction situations	18, 27, 80-2, 89, 127	12, 15-1, 33, 101	11	11	59
Uses manipulatives to model and solve subtraction problems	18, 27, 80-2, 89, 127	49, 68, 101, 121, 132	87, 88, 127	73, 74, 91, 93	45-1
Draws pictures to model and solve subtraction problems	100-2, 128, 130-2	15-1, 33	22	11, 67	59
Creates subtraction problem situations	27, 89, 127	15-1, 33	11, 22	35-2	45-1
Writes number sentences to show subtraction		33, 101	22, 89, 91	11, 35-2	45-1
Identifies differences		125-1	75-1, 119	10-1, 60-1, 65-1, 75-1	11, 21
Uses the inverse relationship between subtraction and addition to check answers		101, 121, 125-1	29, 75-1, 80-1, 91	10-1, 20-1, 67, 92	62, 66
Writes addition and subtraction fact families		132, 134	29; M50-1, 53	15-1, 20-1, 25-1, 30-1, 35-1, 40-1	
Shows the meaning of multiplication		46, 93	92, 110-1, 116, 121, 130-2	45-1, 56, 57, 87, 116, 126	22
Acts out to show multiplication situations		46, 93	116	56	23, 31, 45-1, 60-1
Uses manipulatives to model and solve multiplication problems		46, 93	116	70-1, 87, 88	60-1, 61
Draws pictures to model and solve multiplication problems		79	110-1, 116	56, 57	23
Writes number sentences to show multiplication			92, 110-1, 117	56, 57	23
Identifies factors and products			115-1, 120-1, 125-1	45-1, 120-2	26

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Numbers and Operations, *continued*

Concepts of Whole Number Operations, *continued*

Makes, labels, and writes number sentences for an array			121, 122	87, 88	60-1, 61
Identifies and uses the commutative and associative properties of multiplication			115-1	85-1, 118, 120-1	26, 94, 97
Shows the meaning of division	70-1, 97, 102, 115, 125	109	96, 97, 120-1, 128	37, 107, 108	70-1, 83
Acts out to show division situations	70-1, 97, 102, 115, 125	109	128, 133	107	70-1
Uses manipulatives to model and solve division problems	70-1, 97, 102, 115, 125	109	120-1, 125-1	37, 107	70-1
Draws pictures to model and solve division problems			96, 97	37, 107	70-1
Writes number sentences to show division			128	107, 108	62, 76
Identifies the properties of 0 or 1 in multiplication and/or division			130-1	45-1, 59, 85-1	26
Uses the inverse relationship between division and multiplication to check answers			128	59, 105-1, 122	62, 76, 77, 83, 87, 101
Writes multiplication and division fact families				105-1	
Identifies quotients, dividends, and/or divisors				59	76
Uses a calculator to explore mathematical operations		B	A	D	90-1, 120-1, 122, 130-1, 132

Whole Number Computation

Addition

Uses concrete objects or pictures to model and solve addition problems	18, 27, 50-2, 89, 119	23, 32, 58, 76, 94	28, 61, 115-1	15-1, 73, 74, 76, 93	45-1
Identifies one more than a number	109	32, 34, 36, 37	2, 10-1		
Identifies ten more than a number		89, 90-1, 91	20-1, 36, 44	14, 31	
Masters addition facts to 18		27, 36, 41, 76, 94, 105-1	5, 10-1, 35-1, 55-1	5, 20-1, 25-1, 30-1, 35-1, 40-1	20-2, 25-2, 30-2, 35-2, 40-2
Identifies missing addends		94	35-1	5, 66, 101	55-1, 63
Estimates a sum		111, 115-1	98, 109	31, 52, 53, 73	13, 33, 41
Adds using mental computation		M41, 45-2, 66-70-1	20-1, 36, 44, 98	14, 31, 33, 42, 69	6, 11, 16

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Numbers and Operations, *continued*

Whole Number Computation, *continued*

Addition, *continued*

Adds three or more single-digit numbers		114	58	38, 133	8
Adds 2-digit numbers without regrouping		73–75-1, 81, 91	44, 53, 54, 73	31, 33	11, 13
Adds two 2- or 3-digit numbers		73–75-1, 81, 86, 91	36, 53, 54, 61–64, 68, 73, 79, 109	52, 53, 69, 76	11, 13, 16, 33
Adds 3-digit numbers and money amounts (decimals)			109	82, 89, 106	13, 41, 42, 95-1
Adds three or more multidigit numbers			68	89	16
Adds two 4-digit or larger numbers				106	41
Adds whole numbers and money amounts (decimals) to \$99,999.99				82, 89, 106	6, 8, 12, 13, 41, 95-1
Uses addition to check subtraction problems		101, 121, 125-1	29, 91	10-1, 20-1, 67, 92	66
Uses estimation to check the reasonableness of calculated results			109, B	52, 53	13, 33, 41
Identifies a missing digit in an addition problem			35-1, 40-1, 45-1, 50-1, 55-1	44	9, 55-1, 63
Solves problems involving addition	18, 50-2, 89, 119, 121	12, 15-1, 25-1	8, 22	11, 35-2, 49, 50-1, 52, 53, 90-1	45-1, 55-1, 59, 63
Writes story problems for addition number sentences				11, 35-2, 93, 126	45-1

Subtraction

Uses concrete objects or pictures to model and solve subtraction problems	18, 27, 80-2, 89, 127	49, 68, 101, 121, 132	85-1, 87	73, 74, 91, 93	45-1
Identifies one less than a number	109	44, 45-1	2, 65-1		
Identifies ten less than a number		123	71	14, 62	
Masters subtraction facts with minuends to 10		68, 101, 102, 121, 132	29, 60-1, 65-1, 70-1, 75-1, 80-1, 85-1, 90-1, 95-1, 100-1, 105-1	10-1, 50-1	50-2, 55-2, 60-2, 65-2, 130-1
Masters subtraction facts with minuends of 11 to 18		A	60-1, 65-1, 70-1, 75-1, 80-1, 85-1, 90-1, 95-1, 100-1, 105-1	60-1, 65-1, 75-1, 80-1	50-2, 55-2, 60-2, 65-2, 130-1
Checks subtraction answers using addition		101, 121, 125-1	29, 91	10-1, 20-1, 67, 92	66
Estimates a difference			119	62, 72	58

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Numbers and Operations, *continued*

Whole Number Computation, *continued*

Subtraction, *continued*

Subtracts using mental computation			71	14, 62, 69	58
Subtracts 2-digit numbers without regrouping		127	71	14, 62	
Subtracts 2- or 3-digit numbers			87–89, 91, 119	67, 69, 72, 91, 92	66
Subtracts 3-digit numbers and money amounts (decimals)			119	92	66
Subtracts 4-digit or larger numbers					66
Solves problems involving subtraction	18, 27, 89, 127, 128	12, 15-1, 33	11, 22, 89	11, 35-2, 67, 86, 93, 96, 120-1	45-1, 55-1, 59, 63
Writes story problems for subtraction number sentences				35-2, 67, 75-1	45-1

Multiplication

Doubles a number			132	70-1	125-1
Masters multiplying by 0, 1, 2, 3, 4, and 5			103, 110-1, 115-1, 120-1, 125-1, 130-1	45-1, 70-1, 85-1, 95-1, 100-1	55-1, 60-1, 65-1, 105-2, 110-2
Masters multiplying by 6, 7, 8, and 9				55-1, 110-1, 115-1, 120-1	55-1, 60-1, 65-1, 105-2, 110-2
Multiplies by 10, 100, 1,000, and/or 10,000			36, 103	45-1, 103	36
Multiplies by multiples of 10, 100, 1,000, and/or 10,000			92, 103	109, 122	97
Multiplies using mental computation			92, 103, 110-1, 115-1, 120-1, 125-1, 130-1	112	36, 38, 49, 73, 97
Multiplies a 2-digit number by a 1-digit number			103, A	116	38, 49, 73
Multiplies a 3-digit or larger number by a 1-digit number			103	116	54
Multiplies a 2-digit or larger number by a 2-digit number					73, 80-1
Makes and uses a multiplication table			130-2	120-1	43
Uses multiplication to check division problems				105-1, 124, 132	62, 76, 77, 83, 87, 101
Multiplies using the multiplication algorithm				116	49, 54, 73, 80-1
Solves problems involving multiplication			92, 103, 110-1, 116, 117	40-1, 56, 57, 63, 88, 125-1, 135	73, 80-1, 123

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Numbers and Operations, *continued*

Whole Number Computation, *continued*

Division

Divides sets of objects into equal groups	97, 102, 125	109	120-1, 125-1, 133	9, 56, 57	
Divides by 2	70-1, 125, 134	18, 67	128	37	62
Masters division facts				59, 90-1	105-1, 110-1, 115-2, 120-2, 135
Writes division problems in three ways				59, 90-1, 105-1	62, 76
Divides using mental computation				122	104
Divides 2- and/or 3-digit multiples of 10 by a 1-digit number				122	87, 101
Divides a 2-, 3-, and/or 4-digit number by a 1-digit number				122, 124, 132	76, 77, 83, 84, 87, 90-1, 101, 123
Checks division answers using multiplication				105-1, 124, 132	62, 76, 77, 83, 87, 101
Divides using the division algorithm				132	77, 87, 101
Solves problems involving division	70-1, 97, 115, 132, 134	109	128, 133	37, 107, 108, 124, 125-1	70-1, 76, 83, 123

Fractions and Decimals

Identifies one half and/or one fourth of a whole	70-1, 115, 132, 134	18, 55-1, 67, 88	19, 23, 24, 34, 39, 41	17, 24, 25-2	17, 40-1
Identifies a fractional part of a whole	70-1, 115, 132, 134	18, 55-1, 67, 88, 107, 117	19, 23, 24, 39	17, 21, 24, 25-2, 93, 94	17, 40-1
Writes a fraction to show a part of a whole		55-1	59, 83	24, 25-2, 74, 93, 94	17, 40-1
Represents and writes mixed numbers			111, 112	98, 99, 119	78, 79, 84
Finds half of a set of objects	97	109	83, 96, 97	37, 111	106
Identifies a fractional part of a set		122	59, 83, 96, 97, 128	26, 61, 111	106
Writes a fraction to show a part of a set			59, 83	26, 61	106
Compares fractions	134	67, 107	34, 41	73, 74, 93, 94	27, 28, 68, 69, 88
Recognizes and identifies equivalent fractions			41	94	68, 96
Orders fractions				73, 74, 93, 94	27, 28, 68, 69, 88
Simplifies fractions					98, 109
Writes fraction number sentences that equal 1				25-2	

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Numbers and Operations, *continued*

Fractions and Decimals, *continued*

Adds and subtracts fractions				73, 74, 93, 94	91, 95-1, 102, 127
Uses pictures to represent decimal fractions				131	91, 95-1
Writes tenths or hundredths using common and decimal fractions				78, 119, 131	88, 95-1, 118
Identifies fraction, decimal, and/or percent equivalents				78, 119, 131	118
Finds the percent of a number					120-1
Adds money amounts (decimals)			53, 54, 61, 62, 109	82, 89, 106	6, 8, 12, 13, 41, 95-1
Subtracts money amounts (decimals)			87, 88, 119	96	66, 95-1
Multiplies and/or divides money amounts (decimals)				M127	38, 54, 77, 87, 101, 120-1, 123

Money

Identifies and counts pennies	41, 42, 44, 51, 130-1	16, 51, 53, 85-1, 116	28, 51, 107	23, 36	12
Identifies and counts dimes	65, 67, 68, 113	46, 53, 66, 85-1, 116	28, 51, 107	13, 23, 36	12
Identifies and counts nickels	91, 92, 94, 96, 113	98, 99, 116, 126	46, 51, 107	13, 23, 36	12
Identifies and/or counts quarters	113, 116	126	93, 107	36	12
Identifies one-dollar bills	113	105-2, 113	127	36	
Finds the value of a set of coins	51, 67, 92, 113, 116	46, 66, 99, 116, 126	46	13, 23, 36	12
Trades pennies for dimes and nickels	65, 91	53, 85-2, 86, 98	42, 61–63, 87–89	22, 96	41
Compares the values of sets of coins			46	13	12
Finds the value of a set of coins and bills					63
Reads and writes money amounts to \$1.00 using dollar and cent symbols	49, 51	16, 66, 105-2, 113	86, 109, 119	28, 36	13
Reads and writes money amounts to \$10.00			86, 109, 119	28, 36	14, 123
Reads and writes money amounts to \$99,999.99				78, 106	66
Selects coins for a given amount	116	66, 126	28	22, 79	12
Pays for items and/or makes change using coins	51, 68, 94, 116	66, 73–75-1, 86	127	22, 79	12
Makes change from \$1.00, \$5.00, and/or \$10.00			127	102; M121–135	55-1, 63
Counts bills		105-2, 113		76, 91	63
Pays for items using bills		113	127	76, 91	63

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Numbers and Operations, continued					
Money, continued					
Adds and subtracts money amounts (decimals)		73–75-1, 86, 127	53, 54, 61–64, 109, 119	82, 89, 96, 106	13, 41, 95-1, 66, 67
Writes checks				78, 106	32, 42
Balances a checkbook register					67
Completes a catalog order form					42
Determines unit cost				125-1	
Estimates and finds amount of sales tax				M127	130-1
Measurement					
Calendar and Time					
Identifies seasons	82, 135				2
Identifies today's date	M1–25	1	M1–135	M1–11	1
Identifies dates on a calendar	M1–25	M1–135	M1–135	1	1, 2, 24
Solves problems using a calendar	M19, 21, 23, 25	M18–135	M12	84	24; M1–135
Writes the date using digits			47; M48, 49	16	1
Identifies yesterday, today, and tomorrow	M19	M1–135	M1	M1–5	
Identifies days of the week and/or months of the year	M1–25	M1–135	16	M1–35	1, 24
Identifies weekdays and days of the weekend			16	M1–11	
Identifies morning, afternoon, evening, and night	124	11, 35-1	67	39	7
Identifies a.m., p.m., noon, and midnight			67	39	7
Uses digital and analog clocks to tell and show time	45, 47	48, 57, 87	3, 12, 26, 78, 106, 123	1, 4, 39, 71, 97	7
Tells and shows time to the hour	45, 47	48, 57	3, 12; M4–26	1	7
Tells and shows time to the half hour		87	26	4	7
Tells and shows time to the quarter hour			123	97	34
Tells and shows time to the 5-minute interval and/or minute			78	39, 71	7
Tells and shows time to the second					7, 34
Estimates time to the nearest half hour				4	
Identifies days of the week when regularly scheduled events occur	40-1				
Sequences daily events	30-1, 124	11, 35-1			
Compares events according to duration	65, 91, 113	100-1			

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Measurement, continued

Calendar and Time, continued

Orders events by time		11, 35-1, 100-1			
Identifies activities that take one hour, one minute, and one second			106		
Identifies equivalent units of time			106	39, 84	7, 22, 24, 36
Finds elapsed time			12	1, 4, 65-2	44
Identifies United States time zones					37

Temperature

Identifies cold, cool, warm, and/or hot	100-1	128, C	M1-14		
Compares differences in hourly, daily, and/or seasonal temperature	82, 124, 135	128; M2-135	M1-135	70-2	
Compares situations and objects by relative temperature	100-1	C		46	
Reads a Fahrenheit thermometer		128, C	27, 69	18, 29, 46	74, 75-1
Estimates temperature			27	46, 84	74
Identifies common temperatures			69	18, 29, 46	74
Reads a Celsius thermometer				83	74, 75-1

Linear Measure

Compares the length or height of objects	83, 120-2, 131	4, 7, 62, 104	8, 55-2, 99, 102	85-2	18, 19, 43, 88, 126
Orders objects by length or height	84, 87, 93	9, 62	99		
Creates a measuring tool	126	104			
Estimates and measures length or distance using nonstandard units	87, 106, 126	35-2, 62, 95-2	40-2	85-2	
Estimates length or distance	106	35-2, 95-2, 104	55-2	6, 32, 85-2	39, 88, 103
Selects and/or uses appropriate tools for measuring length	133	71, 97, 104, 119	102	6, 54, 85-2	39
Measures length using customary units (inch, foot, and yard)	133	97, 104	40-2, 43, 55-2, 72, 99, 102, 104	6, 85-2	14, 15-1, 18, 28, 39, 69, 103, 126
Draws line segments using customary units (inch)		97	56, 72	6	15-1, 19, 28, 69, 126
Measures length using metric units (centimeter, millimeter, and meter)		119	102, 104	32, 85-2, 114	14, 15-1, 39, 88
Draws line segments using metric units (centimeter and millimeter)		119	102	32, 43, 114, 119	15-1
Compares the size of the unit and the number of units used to measure an object		95-2	40-2		56
Identifies equivalent units of linear measure				85-2, 114	14, 22, 28, 29
Uses a scale to find distance on a map				125-2, 127	43

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Measurement, continued					
Weight (Mass)					
Compares and orders objects by weight (mass)	53, 72	29, 39	35-2, 110-2, 131	95-2	72
Weighs objects using nonstandard units	72	39, 135	35-2, 40-2		
Estimates weight (mass)	72, 106	29, 39, 135	35-2, 131	95-2	72
Selects and/or uses appropriate tools for measuring weight	53, 72	135	131	95-2	72
Identifies customary and/or metric units of mass		135	110-2, 131	95-2	72
Weighs objects using customary or metric units			110-2, 131	95-2	72
Capacity (Volume)					
Compares and/or orders containers by capacity	90-1, 120-1	50-1	75-2	45-2, 60-2	92
Identifies customary and/or metric units of capacity (cup, quart, gallon, and liter)	78	50-1, 110-1	45-2, 50-2, 75-2	45-2, 60-2, 65-2	92, 125-1
Selects and/or uses appropriate tools for measuring capacity	77, 78	50-1, 55-2, 110-1	50-2	45-2, 60-2	92, 125-1
Estimates capacity	78, 90-1, 120-1	50-1, 55-2, 110-1	75-2	45-2, 55-2	92
Measures capacity	77, 78, 90-1, 120-1	50-1, 55-2, 110-1	45-2, 50-2, 75-2	45-2, 60-2	92
Identifies and uses measuring cups	77	50-1, 110-1	45-2, 50-2, 75-2	45-2, 60-2, 65-2	125-1
Identifies and uses measuring spoons (tablespoon, teaspoon, and $\frac{1}{2}$ teaspoon)			45-2	60-2	125-1
Follows a recipe and measures ingredients	77		45-2, 50-2	60-2, 65-2	125-1
Identifies equivalent units of capacity			75-2	45-2, 60-2	92
Area, Perimeter, and Volume					
Compares and orders objects by size (area)	105, 112, 115	75-2	9	10-2, 15-2, 63	82
Finds area using nonstandard units		75-2	100-2, 115-2, 129	88	82
Estimates area		75-2	115-2	88	82
Finds area of a rectangle			115-2, 129	88	56, 57
Finds the length of a side of a square given the area				81	
Finds perimeter of a polygon			104	49, 50-2	103
Uses perimeter formulas			104	49, 50-2, 88	134
Compares, estimates, and measures circumference					132

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Measurement, continued

Area, Perimeter, and Volume, continued

Finds volume of a rectangular prism				121	129
Finds volume of a cube				121	128

Geometry

Spatial Relationships and Geometric Shapes

Identifies right and left	103	7	1, 2		
Identifies first, last, between, and middle	28, 37, 46, 48, 75	2, 3, 5, 8, 11	7, 16		
Describes, compares, and orders concrete objects by relative position and attributes	12, 23, 32, 43, 53, 72, 83, 84, 87, 93	7, 11, 14, 17, 52	6, 9, 21, 25-2, 30-2		
Gives and follows directions about location	12, 48, 75	7, 19, 38	1, 2, 7		
Arranges and describes objects in relative space	12	7, 19, 38	124		
Makes and covers designs with pattern blocks or tangrams	14, 15, 29, 79, 105, 108, 114	31, 42, 60-1, 65-1	7, 10-2, 15-2, 85-2, 90-2, 100-2	10-2, 15-2	71
Makes and copies designs on a geoboard	56, 57, 63, 86, 100-2	14, 83, 96	57, 60-2, 65-2, 70-2		65-1, 81, 85-1, 86
Creates, identifies, and/or draws congruent shapes, designs, and/or line segments	63, 86	45-2, 83, 96	60-2, 65-2, 108, 118	6, 12, 17, 32, 58	71
Creates and/or identifies similar shapes	105		60-2, 65-2		71
Combines geometric shapes to make new shapes		75-2	24, 70-2, 80-2	50-2	56
Identifies, describes, sorts, and/or compares two-dimensional geometric shapes	19, 23, 31, 57	6, 13, 24, 26, 124	18, 60-2, 65-2	7, 10-2, 100-2, 115-2	64, 71, 81, 82, 85-1, 86
Identifies, describes, and classifies polygons	19, 23, 31, 54, 85, 105	6, 13, 24, 26, 124	6, 18, 21, 25-2, 30-2, 57	7, 10-2, 20-2, 50-2, 100-2	64, 71, 81, 82, 85-1, 86
Identifies angles and sides		6, 13, 14, 24	57, 114, 118, C	7, 20-2, 43, 100-2	81, 114
Identifies parallel lines and line segments			108, 118	48, 100-2, 105-2	65-1
Identifies intersecting and perpendicular lines and line segments			118	105-2, 129	65-1
Identifies horizontal, vertical, and oblique line segments			33, 43, 104	48, 105-2	15-1
Names line segments				43	14, 15-1, 28, 69, 126

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Geometry, continued					
Spatial Relationships and Geometric Shapes, continued					
Identifies right angles			114, 118, C	7, 100-2, 113	65-1, 85-1, 108, 111, 121, 124
Identifies acute and obtuse angles			C	113	124, 131, 135
Identifies straight angles					108, 111
Identifies supplementary angles					135
Identifies right triangles			114	113	108, 124, 135
Names triangles by angle size (acute, obtuse, or right)			C	113	124, 131
Identifies and classifies triangles by lengths of sides (scalene, isosceles, and equilateral)				43	131
Constructs scalene, isosceles, and equilateral triangles				43	131
Identifies and sorts concrete objects by attribute	23, 32, 43, 54	6, 13, 24, 26	6, 9, 21, 25-2, 30-2		113
Identifies, describes, sorts, compares, and/or constructs three-dimensional geometric solids	93, 112, 123	112, 120-1, 125-2	101	15-2, 115-2	113
Identifies faces, vertices, and edges of a geometric solid				115-2	113, 114
Transformations and Symmetry					
Identifies and draws a line of symmetry and/or creates symmetrical designs	129	54, 55-1	52	58	46
Explores, identifies, and/or shows transformations: translations (slides), rotations (turns), and reflections (flips)	108, 114	D	124	110-2	47, 89
Patterns, Algebra, and Functions					
Patterns and Sequences					
Identifies, reads, and extends patterns in shapes, colors, designs, and/or numbers	9, 25, 33, 52, 55, 66, 88, 101	26, 58, 59	7, 15-2, 20-2, 30-1	M1–135	20-2
Identifies the missing shape or design in a repeating pattern	M3–25	26	15-2, 20-2	M101–106	
Identifies the missing number in a sequence	21, 35, 38	52	M18	5	9
Identifies the missing item(s) in an array or matrix	23, 32, 54	52	36	M91–100-2	61
Makes, labels, and writes number sentences for an array			121, 122	87	60-1, 61
Readiness for Algebraic Reasoning					
Constructs a number line and/or locates points on a number line	48, 75, 109	77, 80-1, 92	56, 94	51, 54, 55-2, 123	27, 33, 88

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Patterns, Algebra, and Functions, continued

Readiness for Algebraic Reasoning, continued

Graphs large numbers on a number line				55-2	33
Shows addition, subtraction, and/or multiplication on a number line				126	93
Locates and graphs points (ordered pairs) on a coordinate graph			126	129, 130-1	110-1, 133
Graphs linear functions on a coordinate plane					133
Simplifies expressions containing addition, subtraction, multiplication, and division				118, 133	117
Uses the order of operations to simplify expressions				38, 118, 133	117
Simplifies expressions containing parentheses				38, 118, 133	117, 134
Simplifies expressions containing exponents				63	116, 117, 128
Adds positive and negative numbers				128	93, 99

Relations and Functions

Writes and solves number sentences for problems involving addition or subtraction		21, 25-1, 33, 132, 134	22, 89	11, 35-2, 52, 53, 66, 93, 126	45-1
Creates problems for addition and subtraction number sentences		15-1, 25-1	22, 89	35-2	45-1
Writes and solves number sentences for problems involving multiplication or division			117, 128	56, 57, 107, 108	23, 70-1
Creates problems for multiplication and division number sentences					31
Uses comparison symbols (>, <, and =)		108	81	47, 130-2	21, 25-1, 122
Represents an unknown using a symbol		94	30-1, 35-1, 40-1, 45-1, 50-1, 55-1	5	9
Identifies and writes a function rule				117	105-1, 133
Uses a function rule to complete a table				117	105-1, 133
Graphs linear functions on a coordinate plane					133

Statistics, Data Analysis, and Probability

Data and Statistics

Identifies an object that doesn't belong to a group	50-1				
Sorts and classifies objects by common attributes	23, 32, 43, 54, 85	13, 15-2, 38, 60-1, 122	21, 25-2, 30-2, 46, 65-2, 85-2		

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Statistics, Data Analysis, and Probability, *continued*

Data and Statistics, *continued*

Identifies a sorting rule	34, 60-2	13, 15-2, 38, 60-1, 122	21, 25-2, 30-2, 46, 85-2		71
Determines questions for a survey	122		125-2	40-2	3, 35-1
Conducts a survey and/or records data	122		125-2	40-2	3, 35-1
Tallies data		70-1, 72, 98	32, 113, 125-2	30-2, 40-2, 80-2	35-1, 100-1, 115-1
Collects and sorts data	122	10-1, 38, 60-1, 72, 118	2, 17, 31, 32, 39, 48, 66, 82, 105-2, 113, 120-2, 125-2, 134, 135	2, 30-2, 40-2, 70-2, 80-2	2, 3, 35-1, 90-1, 104
Finds the range and mode of a set of data	69, 73	38	135	A, E	20-1
Finds the median of a set of data			77	A	112
Finds the mean (average) of a set of data				B, E	90-1, 104, 112
Uses a calculator to compare data			A, B	E	90-1, 104, 120-1, 122, 130-1, 132

Graphing

Makes a real graph	11, 17, 22, 58, 69	5, 38, 65-1			
Graphs a picture on a pictograph	5, 82, 107, 135	7, 9, 38, 82	17, 82, 105-2	40-2	2, 50-1
Graphs data on a bar graph	11, 22, 58, 90-2	5, 7, 10-1, 19, 38, 40-1, 65-1, 82, 118	2, 31, 39, 48, 134, 135	2, 40-2, 55-2, 70-2, 80-2, 105-2	3, 10-1
Identifies most, more, fewest, less, and/or same on a graph	11, 17, 22	7, 9, 38, 65-1, 82, 118	2, 31, 39, 48, 135	2, 40-2, 55-2	
Draws conclusions, answers questions, and writes observations about a graph		10-1, 19, 40-1, 65-1, 82, 118	2, 17, 31, 39, 48, 105-2, 125-2, 134, 135	2, 40-2, 55-2, 70-2, 80-2, 105-2	3, 10-1, 20-1
Draws and reads a pictograph			17, 82, 105-2	2, 40-2	2, 50-1
Draws and reads a bar graph			2, 31, 39, 48, 113	2, 55-2	3, 10-1, 104
Draws and reads a bar graph with a scale greater than 1			113	55-2	3, 10-1, 50-1, 104
Draws and reads a line graph			M70-1	70-2	104
Creates and reads a Venn diagram			48, 66	105-2	48
Makes and reads a line plot				A	20-1
Draws and reads a circle (pie) graph					40-1
Makes a stem-and-leaf plot					112

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Statistics, Data Analysis, and Probability, *continued*

Probability					
Describes the likelihood of an event	124	130-1	120-2, 135	80-2, 90-2, C	100-1, 115-1
Conducts a probability experiment		130-1	120-2, 135	80-2, 90-2, C	100-1, 115-1
Predicts the outcome of a probability experiment		130-1	120-2, 135	80-2, 90-2, C	100-1, 115-1
Determines the fairness of a game				90-2	

Problem Solving

Developing Skills for Problem Solving

Identifies steps in a process	30-1, 40-1	10-2	10-1	10-1	1; M1
Classifies and categorizes information	19, 23, 31, 32, 34, 43, 50-1, 85, 105	13, 35-1, 112, 130-1	2, 17, 31, 32, 48, 82, 113, 120-2, 125-2, 134, 135	7, 12, 20-2, 100-2, 113, 115-2	2, 3, 35-1, 90-1, 104
Identifies important/unimportant information		33	M23	35-2	
Looks for a pattern	40-2, 110-2	M7; 30-2, 60-2	7, 15-2, 30-1, 60-1, 100-1	70-1, 80-1	9, 105-1
Makes predictions	124	11, 100-1, 130-1	120-2, 134	80-2, D	100-1, 115-1
Chooses appropriate methods for finding the answers to problems		10-2, 80-2	10-1, 70-1, 100-1, B	10-1, 70-1, 80-1, E	10-2

Strategies for Problem Solving

Acts out a problem or makes a model	18, 50-2, 60-2, 80-2, 89, 119	12, 15-1, 80-2, 110-2, 120-2	8, 11, 40-1, 77, 116	11, 30-1, 56, 64, 107	70-1
Draws a picture	50-2, 80-2, 100-2, 110-2, 121, 128, 130-2	15-1, 25-1, 50-2, 90-2, 130-2	22, 23, 76, 96, 116	11, 40-1, 56, 57, 70-1, 80-1, 107	20-2, 23, 50-2, 70-1
Guesses, checks, and revises	70-2, 90-2, 120-2	80-2, 120-2	70-1	30-1, 60-1, 120-1	33, 70-2, 74, 130-2
Looks for a pattern	40-2, 110-2	M7; 30-2, 60-2	7, 15-2, 30-1, 60-1, 100-1	70-1, 80-1	9, 30-2, 50-2, 105-1
Uses logical reasoning		10-2, 40-2	10-1	10-1, 20-1	10-2, 80-2, 90-2, 100-2, 110-2
Writes a number sentence		25-1, 33, 101	22, 89, 91, 92	11, 35-2, 66, 93, 107, 108, 126	23, 45-1, 70-1
Makes an organized list		20-2, 100-2	40-1	10-1, 22, 34, 50-1, 100-1	4, 130-2
Makes a table or chart		130-2	2, 32, 48, 82, 113	40-1, 70-1, 80-1, 110-1, 130-1	3, 40-2, 43

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Problem Solving, continued					
Strategies for Problem Solving, continued					
Simplifies the problem			40-1, 80-1, 100-1	31, 52, 60-1, 80-1, 110-1, 130-1	11, 16, 38, 119, 130-1
Works backward to solve a problem				20-1, 90-1, 120-1	
Communication					
Questions and responds	1–135	1–135	1–135	1–135	1–135
Works with partners or in groups	21, 52, 73, 99, 118	4–109	6, 16	7–135	1–135
Communicates mathematical ideas through objects, words, pictures, numbers, technology, and symbols	M1–25	B; M1–135	M1–135	M1–135	M1–135
Writes about math		118	4, 22, 29, 47, 84, 86, 92, 105-2, 111, 128	10-1, 80-2	10-2
Mathematical Reasoning					
Recognizes patterns	23, 33, 66, 95	26, 30-2, 60-2	7, 15-2, 20-2, 30-1	M1–135	
Classifies and sorts	16, 19, 23, 31, 57, 105, 113	13, 24, 38, 60-1, 72, 122	6, 9, 18, 21, 25-2, 30-2, 60-2, 65-2, 101	7, 12, 20-2, 100-2, 115-2	64, 71, 81, 85-1, 113
Solves spatial problems	15, 63, 105	14, 31, 42, 60-1, 65-1	1, 2, 7, 124	10-2, 15-2, 50-2	71, 86
Estimates	64, 90-1, 106, 120-1	35-2, 50-1, 62, 111, 115-2	35-2, 55-2, 75-2, 95-2, 98, 115-2	4, 6, 32, 46, 52, 62, 72, 85-2, 95-2	33, 90-1, 103, 122, 129
Explains an answer	40-2, 50-2, 60-2, 70-2, 80-2, 90-2, 100-2	M4–135	10-1	10-1	10-2
Connections					
Connects math to everyday life	45, 47, 49, 51, 68, 81, 94, 96, 116, 124	55-2, 66, 72, 87, 118, 128	17, 18, 37, 83, 86	1, 4, 28, 39, 65-2, 78, 84, 102	24, 32, 41, 44, 130-1
Connects math to science	77, 122	38, 39, 50-1, 128, 130-1, C	2, 17, 31, 50-2, 120-2, 134, 135, B	29, 40-2, 46, 65-2, 130-1	72, 74, 75-1, 112, 125-1
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