

Scope and Sequence Overview

This Scope and Sequence is intended to help you assign meaningful practice to your students as you integrate VersaTiles into your curriculum. It is divided into categories according to the strands shown here: →

Strand	Pages
Number and Number Concepts	2–5
Estimation and Computation	6–14
Patterns, Functions, and Algebra	15–17
Geometry and Measurement	18–21
Statistics and Probability	22–23
Problem Solving	24–25

Here's how to read the Scope and Sequence:

	LEVELS				
	1	2	3	4	5
Counting Whole Numbers					
num bers to 12		*			
num bers to 13		*			
ordinal num bers		1:12, 13			
num bers to 20		1:1			

This column shows the Scope and Sequence for Level 2.

The asterisk indicates that the topic, "numbers to 12," is also covered in another strand in Level 2.

The bold face number indicates the book number.

These are the pages within Book 1 on which the topic "ordinal numbers" is addressed.

As you are perusing the Scope and Sequence, if it appears that a topic is missing within one strand at a specific grade level, check the other strands. You will find that skills (indicated by an asterisk) are integrated across strands whenever it is appropriate.

Number and Number Concepts Strand

		LEVELS							
		1	2	3	4	5	6	7	8
Counting Whole Numbers									
numbers to 12	1:1-3	*							
numbers to 13	1:5-7	*							
ordinal numbers	1:12, 13	1:12, 13							
numbers to 20		1:1							
place-value models to 100	1:14, 16, 17	1:2, 4							
place-value models to 1,000		1:14, 15	1:2						
numbers to 1,000		1:18							
Naming Whole Numbers									
place-value models to 12	1:4	*							
place-value models to 20	1:18	*							
place-value models to 50	1:19, 20	1:6							
numbers to 50	1:22, 23	*							
place-value models to 100	1:15, 25, 26	1:8							
numbers to 100	1:27, 28, 31, 32	*							
place-value models to 1,000		1:16, 17							
numbers to 1,000		1:20, 21, 25, 26	1:14						
numbers to 100,000			1:15						
numbers through hundred thousands			1:9	1:12	1:1				
numbers through hundred billions					1:2				
numbers using scientific notation							1:3	1:7	1:26
word names for numbers		1:3, 9, 19	1:2	1:3	1:1, 2	1:1			

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Number and Number Concepts Strand

		LEVELS							
		1	2	3	4	5	6	7	8
Comparing and Ordering Whole Numbers									
numbers to 13	1:8,9		*						
numbers to 50	1:21, 24		1:7						
numbers to 100	1:29, 30		*						
numbers to 1,000	1:24								
numbers through hundred thousands				1:10, 11	1:9				
numbers through millions					1:7, 8				
numbers through hundred billions						1:5, 6	1:4	1:3	
Identifying Whole Numbers									
odd and even numbers		1:10, 11		1:1	*				
prime and composite numbers					*	1:18	1:14	1:11	1:5
rational and irrational numbers									1:30
Naming Fractions and Mixed Numbers									
fractional regions			1:27–29, 32						
unit fractions			1:27–29, 32	1:16					
non-unit fractions			1:27–29, 32	1:17, 18	1:13, 14	1:16			
mixed numbers				1:25, 26	1:21	1:22			
fractions and mixed numbers					1:13, 14, 21	1:16, 22	1:10	*	*
fractions in simplest form						1:21	1:13	1:14	1:8
equivalent fractions					1:15–17	1:17	1:11	*	*
Comparing and Ordering Fractions and Mixed Numbers									
fractions				1:19, 21, 24	1:18–20	*	*	*	*
mixed numbers					1:23	*	*	*	*
fractions and mixed numbers					1:18–20, 23	1:24	1:18	*	*
Naming Decimals									
in tenths				1:27	1:24	1:7			
in hundredths				1:28	1:25	1:7			
using scientific notation							1:6	1:32	1:27

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Number and Number Concepts Strand

		LEVELS							
		1	2	3	4	5	6	7	8
Comparing and Ordering Decimals									
through hundredths				1:31, 32	1:29, 32	*	*	*	*
through thousandths						1:12, 13	1:8, 9	1:4	*
Naming Percents									
using models						1:30	1:29	*	*
Naming Ratios									
ratios							1:24	*	*
ratios in simplest form							1:25	1:21	1:18
equal ratios to form proportions							1:28	1:22	1:19
Naming Integers									
integers							1:32	1:29	1:22
classifying numbers									1:32
Identifying Place-Value									
3-digit numbers			1:22, 23	1:3–5	*				
place-value of 4-digit numbers				1:6, 7	1:1, 2				
5- or 6-digit numbers				1:8	1:4				
7-digit numbers					1:5, 6				
numbers through hundred billions						1:3	1:1		
decimals through thousandths						1:9	1:5		
equivalent forms of whole numbers			1:5	1:3, 5	1:3				
equivalent forms of decimals						1:10	1:7		
Rounding Whole Numbers, Fractions, and Decimals									
whole numbers through millions						1:4	*	1:1	*
decimals through ten thousandths						1:11	*	1:2	1:1
fractions to $0, \frac{1}{2}$, or the next whole number						*	*	*	1:9

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Number and Number Concepts Strand

LEVELS								
	1	2	3	4	5	6	7	8
Comparing and Ordering Rational Numbers								
whole numbers, fractions, and decimals					1:27	1:21	*	*
fractions, decimals, and percents							1:28	1:21
decimals					*	*	*	1:2
integers							1:30	1:14
whole numbers, decimals, and integers							1:31	1:15
rational numbers								1:13, 31
Renaming Rational Numbers								
improper fractions as mixed numbers				1:22	*	*	1:15	*
mixed numbers as fractions							1:16	*
fractions as decimals			1:29	1:27	1:26	1:19	1:18	*
fractions as repeating decimals						1:20	1:19	1:11
fractions as percents					1:31	1:31	*	*
mixed numbers as decimals			1:30	1:28	*	*	*	*
decimals as fractions using models					1:7, 8	*	*	*
decimals as fractions					1:25	1:19	1:17	*
decimals as rational numbers								1:10
decimals as percents					1:32	1:30	1:24	*
percents as fractions					1:31	1:31	1:23	1:20
percents as decimals					1:32	1:30	1:24, 25	1:20
Number Theory								
greatest common factor					1:20	1:12	1:13	1:7
least common multiple					1:23	1:17	1:20	1:12
prime factors					1:19	1:15		
prime factorization						1:2, 16	1:12	1:6
absolute value								1:23
square root								1:28, 29
numbers with exponents					*		1:6	*
numerical expressions without exponents						*	1:5	*
numerical expressions with exponents						*	1:10	1:3, 4

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Estimation and Computation Strand

		LEVELS							
		1	2	3	4	5	6	7	8
Estimating Measurements									
length	2:1-6, 14-15								
weight	2:7-10, 13								
capacity	2:11-12								
Estimating Sums									
whole numbers		4:6, 10		4:3	2:11	2:1-6	2:1-4	*	*
decimals					2:26	2:23	3:1	2:1	2:1
fractions					5:21	5:11	4:1, 7	3:1	3:1, 7
Estimating Differences									
whole numbers		4:20, 24		4:13	2:12	2:8-11	2:8-11	2:2	*
decimals					2:26	2:24	3:2	2:2	2:2
fractions					5:26	5:14	4:8	3:2	3:2, 8
Estimating Products									
whole numbers				5:5, 6	3:14, 24, 25	3:2, 3, 13, 14	2:16, 20	*	*
decimals							3:9, 14	2:11, 14	2:7, 10, 11
fractions						5:22	4:17	3:18	3:15
Estimating Quotients									
whole numbers					4:9, 22	4:2, 3, 20, 21	2:23, 27	*	*
decimals							3:20, 23	2:22, 25	2:19, 22, 23
Using Models of Addition and Subtraction									
groups of objects	2:16-18, 20, 21								
pictographs	2:19, 22								
counting totals	2:24; 3:1, 2	2:1, 2							
counting the number being taken away and the number left	4:1-3	2:16, 17							
Skip Counting to Find Sums									
doubles	2:23								
skip count by 2	2:25, 26	3:9							
skip count by 3	2:27, 28	3:9							
skip count by 4	2:29, 30	3:12							
skip count by 5	2:31, 32	3:12							

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Estimation and Computation Strand

		LEVELS							
		1	2	3	4	5	6	7	8
Part-Part-Total Models									
sums		3:3	2:3						
addends		3:4, 4:4	2:4						
addition sentences		3:5-8	2:5						
subtraction sentences		4:5, 6, 8	2:18						
Addition Facts to 18									
adding 0-5		3:9-13							
using doubles		3:15	2:7, 8	2:4-6					
using words		3:25							
vertical form		3:28-30	2:14, 31, 32						
three addends		3:23, 24, 31, 32	2:11, 14	2:15	2:4				
using a number line				2:1-3					
using making a ten		3:24	2:11	2:7-9					
addition expressions		3:14	2:6						
addition facts		3:18, 19	2:9, 10						
addition sentences		3:16, 17, 20	*	*					
missing addends and sums		3:21, 22	2:9, 15, 30	2:10-15	2:1, 3, 16				
order property				2:12, 13	2:16				
grouping property				2:14-15					
Addition of Whole Numbers									
tens			4:1	4:1	2:5				
hundreds			4:1	4:2	2:6				
1- and 2-digit numbers without regrouping			4:2, 3	4:4	2:13, 18				
3-digit numbers without regrouping			4:4	*	2:13				
1- and 2-digit numbers with regrouping			4:8, 9, 31	4:5, 6	*				
3- and 4-digit numbers with regrouping			4:12, 13, 31	4:7-10	2:7, 14, 15	2:14-16	2:5, 6		
5- to 7-digit numbers with regrouping						2:17	2:7		
money		*	4:32	4:24	2:29				
related addition and subtraction facts			4:30						
order and grouping properties					2:17				

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Estimation and Computation Strand

LEVELS								
	1	2	3	4	5	6	7	8
Addition of Decimals								
tenths			4:30	2:27	2:25	3:3	2:3	*
hundredths			4:31	2:28	2:26	3:4	2:4	2:3
thousandths					2:27	3:5	2:5	2:4
Addition of Fractions and Mixed Numbers								
fractions with like denominators				5:1-5	5:1, 2	4:2	3:3	3:3
fractions with unlike denominators				5:13, 14, 17, 20	5:3	4:3, 6	3:4, 7	3:4
mixed numbers with like denominators				5:22, 23	5:12	4:9	3:10	*
mixed numbers with unlike denominators				5:24, 25	5:13	4:10	3:11	3:9
Addition of Integers								
using counters							4:1-4	4:1-4
using a number line							4:5, 6	4:5, 6
using rules							4:7, 8, 17, 29, 30	4:7, 8, 16, 17, 27, 30
Subtraction Facts to 18								
subtracting 0-5	4:10-14							
using words	4:25							
vertical form	4:28-32	2:31, 32	*					
using a number line		2:21	2:16-22, 25	2:1				
using making a ten		2:21	2:23-25	2:1				
money		2:28-30						
subtraction expressions	4:15	2:19						
using addition facts	4:18, 19, 23, 24	2:24, 25; 4:30						
subtraction sentences	4:7, 9, 22	2:20	2:26, 27					
missing differences and subtrahends	4:20, 21	2:20; 4:30	2:26, 27	2:2, 3				

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Estimation and Computation Strand

		LEVELS							
		1	2	3	4	5	6	7	8
Subtraction of Whole Numbers									
tens			4:16	4:11	2:5				
hundreds			4:16	4:12	2:6				
1- and 2-digit numbers without regrouping			4:17, 18	4:14	2:18				
3-digit numbers without regrouping			4:19						
1- and 2-digit numbers with regrouping			4:22, 23	4:15, 16	2:7, 19				
3- and 4-digit numbers with regrouping			4:26, 27, 31	4:17-23	2:20, 21, 24	2:18, 19	2:12, 13		
5- to 7-digit numbers with regrouping						2:22	2:14		
money			4:32	4:25					
using related facts			4:30						
using equal additions						2:7			
Subtraction of Decimals									
tenths				4:30	2:27	2:28	3:6	2:8	*
hundredths				4:32	2:28, 32	2:29	3:7	2:9	2:5
thousandths						2:32	3:8	2:10	2:6
Subtractions of Fractions and Mixed Numbers									
fractions with like denominators					5:6-8	5:5	4:4	3:5	3:5
fractions with unlike denominators					5:15, 16, 17, 20	5:4, 6	4:5, 6	3:6, 7	3:6
mixed numbers with like denominators					5:27, 28	5:15	4:11	3:12	*
mixed numbers with unlike denominators					5:29, 32	5:16, 17	4:12, 13	3:13, 14	3:10, 11
Subtractions of Integers									
using counters								4:9-12	4:9-11
using a number line								4:13, 14	4:12, 13
using rules								4:15-17, 29, 30	4:14-17, 27, 30

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Estimation and Computation Strand

		LEVELS							
		1	2	3	4	5	6	7	8
Models of Multiplication and Division									
number of equal groups			3:1-4, 18, 19, 26, 27						
number in each equal group			3:20, 21, 25, 27						
total			3:22, 23						
number left over (remainder)			3:24						
number sentences			3:1, 18						
Multiplication Facts									
factors of 0 or 1			3:14, 32	3:3, 4	3:1				
factors of 2 or 3			3:10, 11, 32	3:3-6	3:1, 3				
factors of 4 or 5			3:13, 32	3:3-6	3:1, 2				
factors of 6 or 7			3:32	3:7, 8	3:2, 4				
factors of 8 or 9			3:32	3:9, 10	3:3, 4				
using skip counting			*	3:2					
three factors				3:14, 15	3:6				
multiplication facts			3:5-8, 15	3:11	*				
missing factors				3:11-13	3:5, 8, 9				
order and grouping properties				3:12, 13	3:8, 9				
Multiplication of Whole Numbers									
2- and 3-digit numbers by 1-digit numbers				5:1-4, 7-13, 16	3:12, 13, 15-18	3:5-7			
4- to 6-digit numbers by 1-digit numbers						3:1, 8-10	2:15, 17		
2- and 3-digit numbers by 2-digit numbers					3:22, 23, 26-29	3:15-17	*		
4- and 6-digit numbers by 2-digit numbers					3:32	3:18, 19	2:21, 22		
missing factors			*	*	*	3:11, 12			
distributive property					3:7	3:4			

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Estimation and Computation Strand

LEVELS								
	1	2	3	4	5	6	7	8
Multiplication of Decimals								
whole numbers				3:19	3:22, 23, 26	3:10, 11, 15, 16, 19	2:12, 13, 15, 16	2:8, 9, 12, 13
powers of 10					*	3:26	2:28	2:28
money				3:19				
decimals in tenths by decimals in tenths					3:27, 28, 31	3:17	2:17	2:16
decimals in hundredths by decimals in tenths					3:29-33	3:29, 32	2:18	2:17
decimals in hundredths by decimals in hundredths						3:18	2:18, 19	2:17, 18
Multiplication of Fractions								
area models					5:20, 23			
whole numbers					5:21	4:16	3:15	3:14
fractions by fractions					5:24, 25	4:18, 19	3:19, 20	3:16, 17
reciprocals					5:30	4:25	3:23, 24	3:21
fractions by mixed numbers					5:26	4:22	3:21	3:18
mixed numbers by mixed numbers					5:27	4:23, 24	3:22	3:19, 20
Multiplication of Integers								
using counters							4:20	4:20
using patterns							4:21	4:21
using rules							4:22, 23, 28-30	4:22, 27, 30
numbers sentences							*	4:26
Division Facts								
dividing by 0 or 1		3:32	3:19, 20	4:1				
dividing by 2 or 3		3:28, 32	3:19, 20-22	4:1, 3				
dividing by 4 or 5		3:29, 32	3:19, 20-22	4:1, 2				
dividing by 6 or 7		3:32	3:23, 24	4:2, 4				
dividing by 8 or 9		3:32	3:25-27	4:3, 4				

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Estimation and Computation Strand

LEVELS								
	1	2	3	4	5	6	7	8
Division of Whole Numbers								
using basic facts and patterns area models				4:20, 21	4:1, 18, 19 4:11			
2-digit numbers by 1-digit numbers without remainders			5:17, 18, 21–24, 32	4:10	4:4, 5			
3-digit numbers by 1-digit numbers without remainders			5:19, 20	4:8, 12, 13, 15–17	4:6, 7			
4- to 5-digit numbers by 1-digit numbers without remainders					4:10	2:25, 26		
money			5:32	4:16, 17, 26				
2-digit numbers by 1-digit numbers with remainders			5:25–29	4:7, 11				
3-digit numbers by 1-digit numbers with remainders						2:24		
2- to 3-digit numbers by 2-digit numbers with remainders				4:14, 23–25, 27	4:22–24	2:28		
4- to 5-digit numbers by 2-digit numbers with remainders					4:25	2:29, 32		
multiples of 10				4:23–26				
missing dividends, divisors, and quotients			3:30	4:5				
Division of Decimals								
dividing by whole numbers					4:12–14, 28–30	3:21, 22, 24, 25	2:23, 24, 26, 27	2:20, 21, 26, 27
fractions in tenths divided by fractions in tenths						3:27	2:29	2:29
fractions in hundredths divided by fractions in tenths							2:30	
fractions in tenths divided by fractions in hundredths								2:30
fractions in hundredths divided by fractions in hundredths						3:28, 29, 32	2:31, 32	2:30–32
rounding quotients					4:31, 32	*	*	*

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Estimation and Computation Strand

LEVELS								
	1	2	3	4	5	6	7	8
Division of Fractions								
whole numbers divided by fractions					5:28, 29	4:26–28	*	*
reciprocals					5:31, 32	4:25	3:25, 28	3:24–26
fractions divided by mixed numbers						4:30	*	*
mixed numbers divided by fractions						4:29	3:29, 30	3:27, 28
mixed numbers divided by mixed numbers						4:31, 32	3:31, 32	3:29–32
Division of Integers								
using multiplication							4:26	*
using inverse operations								4:23, 24
using rules							4:27–30	4:25, 27, 30
number sentences							*	4:26
Fact Families								
addition and subtraction		2:26, 27	2:32					
multiplication and division			3:31, 32	4:6				
Regrouping, Rounding, and Renaming Numbers								
regrouping 2- and 3-digit numbers		4:7, 11, 21, 25						
rounding whole numbers		4:5	*	2:8–10	*	*	*	*
rounding decimals				2:25	4:15	*	*	*
rounding fractions					5:7, 10	*	*	*
renaming decimals in scientific notation							4:31, 32	4:31, 32
Number Theory								
factors				3:10	*	*	*	*
multiples				5:9–12	*	*	*	*
averages				4:30	*	*	*	*
divisibility rules (2, 5, 10)				4:31, 32				
prime numbers				3:11	*	*	*	*

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Estimation and Computation Strand

	LEVELS							
	1	2	3	4	5	6	7	8
Ratios and Proportions								
ratios						5:1-5	5:1-4	5:1-4
equal ratios						5:6, 7	5:5, 6	5:5, 6
rates						5:8	5:7	5:7
unit rates						5:9	5:8	5:8
unit prices						5:10, 11	5:9, 10	5:9, 10
proportions						5:14, 16-18	5:11, 13-15	5:11, 13-15
cross products						5:15	5:12	5:12
scale length						5:19-21	5:16, 17	5:16, 17
Percents								
10 by 10 grids				*	*	5:24-26	*	*
renaming percents as fractions						*	5:20, 21	5:20, 21
percent of a number						5:27-29, 32	5:22-25	5:22-25
percents of increase and decrease							5:26, 27	5:26, 27
sales tax							5:28	5:28
discounts and sale prices							5:29	5:29
simple interest							5:32	5:32

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Patterns, Functions, and Algebra Strand

		LEVELS							
		1	2	3	4	5	6	7	8
Shape Patterns									
real-life objects	5:1,4								
2- and 3-dimensional shapes	5:6-8		5:3-5	6:29, 30	6:28-30	6:30			
stacked cubes				6:28	6:25	6:31			
slides, flips, and turns				6:31, 32	6:31, 32	*	*	*	*
tessellations						6:29			
number cubes						6:32			
Identifying Shapes									
similar objects	5:2-3		*						
similar geometric shapes	5:5		5:1, 2						
different shapes	*		5:6, 7						
Number Patterns									
counting forward and backward	5:9, 10		5:9						
repeating patterns	5:21, 22		5:20, 21	6:13-15					
odd and even numbers			5:8	6:7	6:7				
sequences					6:14, 15	6:26-28	6:7, 8	6:4, 5	6:3, 4
Skip Counting Patterns									
skip counting by 2 to 100	5:11, 12		5:10						
skip counting by 3 to 100			5:11						
skip counting by 5 to 100	5:13, 14								
skip counting by 10 to 100	5:15, 16		5:12						
skip counting by 10 to 1,000			5:13						
skip counting by 2 through 9					6:5	6:5			
skip counting by 10; 100; 1,000; or 10,000	*		*	6:6, 8	6:6, 8				
multiplication patterns by 10; 100; or 1,000					6:13				

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Patterns, Functions, and Algebra Strand

		LEVELS							
		1	2	3	4	5	6	7	8
Money Patterns									
increases and decreases by 5¢, 10¢, 25¢, 50¢, or \$1.00				6:1, 2	6:1, 2				
Time Patterns									
increases and decreases by the same time interval				6:3, 4	6:3, 4				
Addition and Subtraction Patterns									
addition facts		5:23–26	*						
subtraction facts		5:29–32	*						
addition sentences		*	5:22–25						
subtraction sentences		*	5:28–30						
Addition and Multiplication Tables									
addition tables		5:27, 28	5:26, 27	6:11	6:11				
multiplication tables			5:31, 32	6:12	6:12				
missing addends			5:18	6:21	6:20				
missing factors			5:19	6:22	6:21				
magic squares				6:9, 10	6:9, 10				
Function Machines									
outputs (sums, differences, products, quotients)		5:17	5:14	6:18, 19	6:19	6:19, 20	*	*	6:29
inputs (addends, factors)		5:18	5:15	*	6:19	6:19, 20	*	*	6:29
rules		5:19, 20	5:16, 17	6:20	6:18	*	*	*	6:29
Expressions									
order of operations						6:1, 2			
addition						6:3, 4			
subtraction						6:5, 8			
addition, subtraction, multiplication, division							6:5, 6	6:2, 3	6:2
naming expressions							6:1–4	6:1	6:1

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Patterns, Functions, and Algebra Strand

LEVELS								
	1	2	3	4	5	6	7	8
Equations								
models of addition equations					6:9			
one-step addition equations					6:10, 13	6:13–15	6:7–9, 22	6:10
models of subtraction equations					6:11			
one-step subtraction equations					6:12, 16	6:16–18	6:10–12	6:11
one-step addition and subtraction equations						6:32	6:23	6:6, 7
models of multiplication equations					6:17			
one-step multiplication equations					6:18	6:19–21	6:13–15, 24	6:12
one-step division equations					6:21	6:24, 25, 28	6:16–18, 25	6:13
one-step multiplication and division equations					6:22	*	*	6:8, 9
one-step equations					*	*	6:19	*
two-step equations								6:14–17
naming equations						6:9, 10	6:6	6:5
substitutions						6:11, 12, 31	*	*
systems of equations								6:32
Graphing								
naming points			6:25	6:24	6:25	6:29	6:26	6:22
naming coordinates			6:23, 24	6:22, 23	6:23, 24	6:30	6:27	6:22
equations							6:32	6:30
slope								6:31
Algebra								
function tables							6:28–29	6:28
Pythagorean theorem								6:20, 21, 23
sine, cosine, and tangent								6:24, 25

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Geometry and Measurement Strand

		LEVELS							
		1	2	3	4	5	6	7	8
Spatial Relationships									
above or below	6:1,2								
left or right	6:3,4								
inside or outside	6:1								
views of stacked cubes					7:13				
Identifying 2- and 3-dimensional Shapes									
descriptions of 2- and 3-dimensional shapes	6:8-13	6:6-9							
3-dimensional shapes			7:24, 25	7:15	7:28				
2-dimensional shapes			7:26, 27	7:16, 17	7:4				
geometric figures				7:19, 20	7:1				
triangles					7:5	7:5	7:5	7:5	7:6
circles					7:6				
quadrilaterals						7:5	7:5	7:5	7:6
Plane Figures									
lines, line segments, rays, and angles				7:30	7:18	7:1	7:1	7:1	7:1
intersecting, perpendicular, and parallel lines							7:2	7:2	7:2, 5
lines of symmetry		6:13		7:31, 32	7:23, 24	*	7:10	7:10	7:10
classifying angles						7:3	7:3	7:3	7:3
Congruencies and Similarities									
matching groups of objects	6:5	6:2							
congruent 3-dimensional figures	6:6, 7	6:4	7:24	7:14, 21, 22	7:7		7:6	7:6	7:7
congruent 2-dimensional shapes	6:6, 7, 16, 17	6:5, 10-12	7:26	7:21, 22	7:7		7:6	7:6	7:7
similar figures				7:21, 22	*		7:7	7:7	*
Transformations									
translations						7:8	7:8	7:8	7:8
reflections						7:8	7:8	7:8	7:9
rotations						7:9	7:9	7:9	*

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Geometry and Measurement Strand

		LEVELS							
		1	2	3	4	5	6	7	8
Distance Around Figures									
perimeter			6:20	7:9-11	7:25	7:20, 21	7:17	7:18	7:13
circumference						7:26	7:26	7:23	7:19
Area									
counting square units			6:21, 22	7:12	7:28				
squares and rectangles			6:21, 22	7:12	7:29	7:22, 23	7:20	7:19	7:16
parallelograms						7:25	7:23	7:22	7:16
triangles						7:24	7:21, 22	7:20, 21	7:17
trapezoids									7:18
circles									7:20
irregular figures						7:27	7:27	7:24	7:21
Surface Area									
rectangular prisms								7:28	7:24
cylinders								7:29	7:25
Volume									
counting cubes			6:3	7:13	7:32	7:29			
cubes and rectangular prisms					7:32	7:30	7:29	7:30	7:26
triangular prisms							7:30	7:31	7:26
cylinders							7:31	7:32	7:27
pyramids									7:28
cones									7:29
irregular figures							7:32		7:32
Scale									
finding actual distances					7:26, 27	7:31			
finding scale distances						7:32			

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Geometry and Measurement Strand

		LEVELS							
		1	2	3	4	5	6	7	8
Time									
more/less time		7:1,2	7:1						
telling time to the hour		7:3-7	7:2						
telling time to the half-hour		7:8-12	7:4-6						
telling time to the quarter-hour			7:7-9						
telling time to the nearest five minutes			7:10, 11						
estimating			7:12						
A.M. and P.M.			7:3						
Calendar									
days and dates		7:13, 14	7:13, 14						
months		7:15							
Money									
counting coins		7:18-25	7:15, 18, 19						
counting bills and coins			7:21, 22						
buying items		7:26, 27	7:27, 28						
comparing and ordering		7:28, 29, 32	7:32						
finding equal values of coins			7:20, 23						
sums and differences			7:24-26						
calculating change			7:29						
Temperature									
Fahrenheit thermometer		6:30	6:30						
estimating		6:31, 32	6:31						
Estimating Length, Weight, Capacity, and Mass									
length in customary units		6:22	6:18	7:3, 4	*	*	*	7:11	7:11
length in metric units				7:7, 8	*	*	*	7:14	7:14
weight		6:24	6:23	7:18, 19	7:7	7:13	7:13	7:12	7:12
mass		6:28	6:24	7:22, 23	7:10	7:16	7:16	7:15	7:15
capacity in customary units		6:25	6:25	7:16, 17	7:9	7:13	7:13	7:12	7:12
capacity in metric units		6:25, 29	6:28	7:20, 21	7:11	7:16	7:16	7:15	7:15
customary measurement sense			6:29						
metric measurement sense			6:32						

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Geometry and Measurement Strand

LEVELS								
	1	2	3	4	5	6	7	8
Measuring Length								
nonstandard units	6:18, 19	6:16						
customary units	6:20, 21	6:17	7:1, 2	7:1-3	7:12			
metric units	6:23	6:19	7:5, 6	7:5	7:15			
Measuring Angles								
using an angle ruler or protractor					7:2	7:4	7:4	7:4
Conversion of Units								
length in customary units				7:4, 8	7:14	7:13	7:11	7:11
length in metric units				7:6	7:17	7:16	7:13	7:12
weight				7:8	7:14	7:13	7:12	7:11
mass				7:12	7:17	7:16	7:14	7:12
capacity in customary units				7:8	7:14	7:13	7:12	7:11
capacity in metric units				7:12	7:17	7:16	7:14	7:12
units of time							7:15	

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Statistics and Probability Strand

LEVELS

	1	2	3	4	5	6	7	8
Gathering Information								
context of a story	8:1,2	8:1,2						
sensible answers	8:32							
Sorting Information								
objects by category	8:3-6	8:3,4						
positions of inside, outside, and on	8:7							
Venn diagrams	8:8	8:5,6						
Reading and Interpreting Tables								
tally marks	8:9,10	8:7,8	8:6-9					
tables	8:11-13	8:9,10	8:1-4	8:1,3,4	8:1,3	8:1	8:1	8:1,2
schedules	8:14,15	8:11,12	8:5	8:2	8:2			
Reading and Interpreting Graphs								
real object graphs	8:16,17	8:13,14						
pictographs	8:18-21	8:15-18	8:14-16	8:16,17	*	8:2,3	8:2	
single vertical bar graphs	8:22,23	8:19,20	8:17,18		8:15	8:4	8:3	
double vertical bar graphs					8:22-23	8:5	8:4	8:3
single horizontal bar graphs	8:24,25	8:21,22	8:19-22	8:18,19	8:14			
double horizontal bar graphs						8:6	8:5	8:4
circle graphs				8:24,25	8:20,21	8:9,10	8:9,10	8:1,14
timelines			8:10-11	8:14-15				
single line graphs			8:12,13	8:20-23	8:18,19	8:7	8:6	
double line graphs						8:8	8:7	8:7,8
line plots				8:13	8:12,13		8:8	8:9,10
stem-and-leaf plots					8:24	8:18,19	8:18	8:15,16
histograms								8:5,6
other graphs						8:20,21	8:16-17	8:12-13
misleading graphs								8:30,31
Analyzing Data								
range				8:5,6	8:4,5	8:11,12	8:11	8:17
mode				8:7,8	8:6,7	8:13	8:12	8:18
median				8:9,10	8:10,11	8:16,17	8:14,15	8:20
mean				8:11,12	8:8,9	8:14,15	8:13	8:19

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Statistics and Probability Strand

LEVELS								
	1	2	3	4	5	6	7	8
Certain, Possible, and Impossible Events								
likely and unlikely events	8:28, 29	8:23, 24						
real and not real events	8:30, 31							
certain and impossible events		8:25, 26						
Listing Outcomes								
spinners			8:23, 24	8:26	8:25	8:24, 25	8:19	8:21
groups of cards		8:30	8:25, 26	8:27			8:19	8:21
number cubes						8:25	8:19	8:21
coins		8:27				8:24, 25	8:19	8:21
counting principle							8:20	
real life situations								8:22
Independent/Dependent Events								
spinning a spinner			8:27–29	8:28	8:28	8:29	8:21	8:25
picking a card from a group of cards			8:30–32	8:29	8:29	8:28, 29	8:23	
rolling a number cube					8:30	8:29	8:22	
independent events						8:30	8:28	8:26, 27, 29
dependent events								8:28, 29
Making Predictions								
spinner outcomes in a given amount of spins				8:30	8:31	8:31	8:24	
card outcomes in a given number of picks				8:31				
number cube outcomes in a given number of rolls					8:32	8:32	8:25	
sample surveys								8:32
Combinations and Permutations								
combinations		8:31, 32		8:32			8:31, 32	8:24
permutations							8:29, 30	8:23

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Problem Solving

		LEVELS							
		1	2	3	4	5	6	7	8
Problem Solving: Using Information from Pictures and Charts									
tables	7:30-31	7:30-31	1:12-13	1:10-11; 3:20-21	1:14-15; 3:24-25	1:22-23; 1:26-27; 2:18-19	1:8-9; 2:6-7	1:16-17	
tables of paired values			6:26-27						
pictures	6:14-15	6:14-15			2:20-21				
drawings					7:10-11			7:30-31	
lists			3:16-17			3:12-13	1:26-27	1:24-25	
groups of objects	8:26-27	8:28-29							
fractional amounts		1:30-31	1:22-23						
length of objects	2:14-15								
diagrams			6:16-17	6:26-27	5:8-9; 8:16-17	7:24-25; 8:22-23	7:26-27	2:14-15; 7:14-15, 22-23	
bar graphs	1:10-11		8:20-21		8:22-23				
pictographs	7:16-17	7:16-17							
timelines			8:10-11	8:14-15					
line graphs				8:22-23					
circle graphs						5:30-31	5:30-31	5:30-31	
maps							3:8-9		
various graphs							8:16-17	8:12-13	
misleading graphs								8:30-31	
Problem Solving: Using Number Sense Skills									
using logical reasoning			2:30-31; 7:14-15	2:30-31	1:28-29				
extending patterns			7:28-29					3:12-13	
needed and extra information						4:14-15	3:16-17		
estimation					2:12-13				
quotients and remainders			5:30-31	4:18-19		2:30-31			
working backward					6:14-15	4:20-21	3:26-27; 6:30-31	3:22-23	
decimals				1:30-31					

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Problem Solving

LEVELS

	1	2	3	4	5	6	7	8
Problem Solving: Using Geometry and Algebra								
perimeter and area formulas				6:16-17; 7:30-31				
using given formulas						6:22-23	6:20-21	6:18-19
units of measure	6:26-27	6:26-27			7:18-19	7:18-19	7:16-17	
conversion of units								
substituting values into formulas					6:6-7			
Pythagorean theorem								6:26-27
Problem Solving: Using the Four Operations								
addition	3:26-27; 4:26-27	2:12-13; 4:14-15		5:18-19, 30-31	4:16-17			
subtraction	4:26-27	2:22-23; 4:28-29		5:18-19, 30-31	4:16-17			
multiplication					4:16-17			
division					4:8-9,16-17			
Problem Solving: Multi-Step Problems								
whole numbers			5:14-15		3:20-21	2:18-19; 6:26-27		
whole numbers and decimals			4:28-29		2:30-31	3:30-31		2:24-25
whole numbers, decimals, and fractions					5:18-19; 8:26-27			
decimals							2:20-21	
fractions							8:26-27	
integers							4:18-19, 24-25	4:18-19, 28-29
averages					4:26-27			
rates						5:12-13	5:18-19	5:18-19
proportions						5:22-23		
using a sign in/sign out sheet						8:26-27		
Problem Solving: Using Number Sentences and Equations								
addition sentences			2:28-29; 3:28-29; 4:26-27	2:22-23; 3:30-31; 4:28-29				
subtraction sentences	4:16-17		2:28-29; 3:28-29; 4:26-27	2:22-23; 3:30-31; 4:28-29		3:30-31		
multiplication sentences		3:16-17	3:28-29	3:30-31; 4:28-29				
division sentences		3:30-31	3:28-29	4:28-29				

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1	SQ-921001	\$54.95		
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