	Math Teachers Pre	ess, Inc.		
	4850 Park Glen Road, Minneapolis, MN 55	/		
	phone (800) 852-2435 fax (952) 546-7			
Ne	ew York State Next Generation Mathe Correlated to <i>Moving with Math</i>		•	
		IM1	IM2	IM3
		Number, Reasoning, & Data Student Book/Skill Builder (SB)	Fraction, Decimal, Percent, & Probability Student Book/Skill Builder (SB)	Geometry, Measurement, & Graphing Studen Book/Skill Builde (SB)
	Operations and Algebraic Thinking			
5.OA	Write and interpret numerical expressions.			
1	Apply the order of operations to evaluate numerical expressions.	20, 22 SB: 5-4, 5-6, 5-8, 45-2		
2	Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them.	70 SB: 56-1, 56-6		
5.OA	Analyze patterns and relationships.			
3	Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a	76 SB: 44-4, 44-5		
	coordinate plane.	1844	1940	1840
		IM1 Number, Reasoning, & Data Student Book/Skill Builder (SB)	IM2 Fraction, Decimal, Percent, & Probability Student Book/Skill Builder (SB)	IM3 Geometry, Measurement, & Graphing Studen Book/Skill Builde (SB)
	Number and Operations in Base Ten			
5.NBT	Understand the place value system.			
1	Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.	2,3 SB: 1-1	41, 42, 45 SB: 1-1, 21-2, 23-1, 23-3, 23-4	
2	Use whole-number exponents to denote powers of 10. Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10.	SB: 8-3	63 SB: 27-4, 28-3, 28-7	
3	Read, write, and compare decimals to thousandths.			
a)	Read and write decimals to thousandths using base-ten numerals, number names, and expanded form.		41-44, 46 SB: 21-1 to 21-3, 22- 1, 22-2, 26-1	

	Compare two desimple to the way diffe has all an		40 E1	
	Compare two decimals to thousandths based on		49-51	
b)	meanings of the digits in each place, using >, =,		SB: 24-2, 24-2	
	and < symbols to record the results of			
	comparisons.			
4	Use place value understanding to round decimals		52, 53 SB: 51-1 to 51-4	
	to any place.	00.00.07	3B: 31-1 10 31-4	
-	Fluently multiply multi-digit whole numbers	32, 36, 37		
5	using a standard algorithm.	SB: 8-2, 8-4 to 8- 7		
	Find whole number quetients of whole numbers	39-48		
	Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit	SB: 9-2 to 9-5, 10-		
	divisors, using strategies based on place value,	1 to 10-6		
	the properties of operations, and/or the	1 10 10-0		
6	relationship between multiplication and division.			
	Illustrate and explain the calculation by using			
	equations, rectangular arrays, and/or area			
	models.			
			54-62	
	Using concrete models or drawings and strategies based on place value, properties of		SB: 26-2 to 26-4, 27-	
			1 to 27-6, 28-1 to 28-	
	operations, and/or the relationship between operations:			
7	add and subtract decimals to hundredths;		7, 45-2, 45-5	
	 multiply and divide decimals to hundredths. 			
	Relate the strategy to a written method and			
	explain the reasoning used.			
		IM1	IM2	IM3
		IM1 Number	IM2 Fraction Decimal	IM3 Geometry
		Number,	Fraction, Decimal,	Geometry,
		Number, Reasoning, &	Fraction, Decimal, Percent, &	Geometry, Measurement, &
		Number, Reasoning, & Data Student	Fraction, Decimal, Percent, & Probability Student	Geometry, Measurement, & Graphing Student
		Number, Reasoning, & Data Student Book/Skill	Fraction, Decimal, Percent, & Probability Student Book/Skill Builder	Geometry, Measurement, & Graphing Student Book/Skill Builder
		Number, Reasoning, & Data Student	Fraction, Decimal, Percent, & Probability Student	Geometry, Measurement, & Graphing Student
	Number and Operations—Fractions	Number, Reasoning, & Data Student Book/Skill	Fraction, Decimal, Percent, & Probability Student Book/Skill Builder	Geometry, Measurement, & Graphing Student Book/Skill Builder
5.NF	Number and Operations—Fractions Use equivalent fractions as a strategy to add	Number, Reasoning, & Data Student Book/Skill	Fraction, Decimal, Percent, & Probability Student Book/Skill Builder	Geometry, Measurement, & Graphing Student Book/Skill Builder
5.NF	Number and Operations—Fractions	Number, Reasoning, & Data Student Book/Skill	Fraction, Decimal, Percent, & Probability Student Book/Skill Builder	Geometry, Measurement, & Graphing Student Book/Skill Builder
5.NF	Number and Operations—Fractions Use equivalent fractions as a strategy to add and subtract fractions.	Number, Reasoning, & Data Student Book/Skill	Fraction, Decimal, Percent, & Probability Student Book/Skill Builder (SB)	Geometry, Measurement, & Graphing Student Book/Skill Builder
	Number and Operations—Fractions Use equivalent fractions as a strategy to add and subtract fractions. Add and subtract fractions with unlike	Number, Reasoning, & Data Student Book/Skill	Fraction, Decimal, Percent, & Probability Student Book/Skill Builder (SB) 19-23	Geometry, Measurement, & Graphing Student Book/Skill Builder
5.NF	Number and Operations—Fractions Use equivalent fractions as a strategy to add and subtract fractions. Add and subtract fractions with unlike denominators (including mixed numbers) by	Number, Reasoning, & Data Student Book/Skill	Fraction, Decimal, Percent, & Probability Student Book/Skill Builder (SB) 19-23 SB: 17-1 to 17-4, 18-	Geometry, Measurement, & Graphing Student Book/Skill Builder
	Number and Operations—Fractions Use equivalent fractions as a strategy to add and subtract fractions. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions	Number, Reasoning, & Data Student Book/Skill	Fraction, Decimal, Percent, & Probability Student Book/Skill Builder (SB) 19-23 SB: 17-1 to 17-4, 18-	Geometry, Measurement, & Graphing Student Book/Skill Builder
	Number and Operations—Fractions Use equivalent fractions as a strategy to add and subtract fractions. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.	Number, Reasoning, & Data Student Book/Skill	Fraction, Decimal, Percent, & Probability Student Book/Skill Builder (SB) 19-23 SB: 17-1 to 17-4, 18- 1, 18-2	Geometry, Measurement, & Graphing Student Book/Skill Builder
	Number and Operations—Fractions Use equivalent fractions as a strategy to add and subtract fractions. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. Solve word problems involving addition and	Number, Reasoning, & Data Student Book/Skill	Fraction, Decimal, Percent, & Probability Student Book/Skill Builder (SB) 19-23 SB: 17-1 to 17-4, 18- 1, 18-2 25-27	Geometry, Measurement, & Graphing Student Book/Skill Builder
	Number and Operations—Fractions Use equivalent fractions as a strategy to add and subtract fractions. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. Solve word problems involving addition and subtraction of fractions referring to the same	Number, Reasoning, & Data Student Book/Skill	Fraction, Decimal, Percent, & Probability Student Book/Skill Builder (SB) 19-23 SB: 17-1 to 17-4, 18- 1, 18-2 25-27 SB: 18-3, 18-4, 45-	Geometry, Measurement, & Graphing Student Book/Skill Builder
1	Number and Operations—Fractions Use equivalent fractions as a strategy to add and subtract fractions. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. Solve word problems involving addition and	Number, Reasoning, & Data Student Book/Skill	Fraction, Decimal, Percent, & Probability Student Book/Skill Builder (SB) 19-23 SB: 17-1 to 17-4, 18- 1, 18-2 25-27	Geometry, Measurement, & Graphing Student Book/Skill Builder
	Number and Operations—Fractions Use equivalent fractions as a strategy to add and subtract fractions. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators.	Number, Reasoning, & Data Student Book/Skill	Fraction, Decimal, Percent, & Probability Student Book/Skill Builder (SB) 19-23 SB: 17-1 to 17-4, 18- 1, 18-2 25-27 SB: 18-3, 18-4, 45-	Geometry, Measurement, & Graphing Student Book/Skill Builder
1	Number and Operations—Fractions Use equivalent fractions as a strategy to add and subtract fractions. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators. Use benchmark fractions and number sense of	Number, Reasoning, & Data Student Book/Skill	Fraction, Decimal, Percent, & Probability Student Book/Skill Builder (SB) 19-23 SB: 17-1 to 17-4, 18- 1, 18-2 25-27 SB: 18-3, 18-4, 45-	Geometry, Measurement, & Graphing Student Book/Skill Builder
1	Number and Operations—Fractions Use equivalent fractions as a strategy to add and subtract fractions. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators. Use benchmark fractions and number sense of fractions to estimate mentally and assess the	Number, Reasoning, & Data Student Book/Skill	Fraction, Decimal, Percent, & Probability Student Book/Skill Builder (SB) 19-23 SB: 17-1 to 17-4, 18- 1, 18-2 25-27 SB: 18-3, 18-4, 45-	Geometry, Measurement, & Graphing Student Book/Skill Builder
1	Number and Operations—Fractions Use equivalent fractions as a strategy to add and subtract fractions. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.	Number, Reasoning, & Data Student Book/Skill	Fraction, Decimal, Percent, & Probability Student Book/Skill Builder (SB) 19-23 SB: 17-1 to 17-4, 18- 1, 18-2 25-27 SB: 18-3, 18-4, 45-	Geometry, Measurement, & Graphing Student Book/Skill Builder
1 2	Number and Operations—Fractions Use equivalent fractions as a strategy to add and subtract fractions. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers. Apply and extend previous understandings of	Number, Reasoning, & Data Student Book/Skill	Fraction, Decimal, Percent, & Probability Student Book/Skill Builder (SB) 19-23 SB: 17-1 to 17-4, 18- 1, 18-2 25-27 SB: 18-3, 18-4, 45-	Geometry, Measurement, & Graphing Student Book/Skill Builder
1	Number and Operations—Fractions Use equivalent fractions as a strategy to add and subtract fractions. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.	Number, Reasoning, & Data Student Book/Skill	Fraction, Decimal, Percent, & Probability Student Book/Skill Builder (SB) 19-23 SB: 17-1 to 17-4, 18- 1, 18-2 25-27 SB: 18-3, 18-4, 45-	Geometry, Measurement, & Graphing Student Book/Skill Builder

	Interpret a fraction as division of the numerator	2, 3	
	by the denominator $(a/b = a \div b)$.	SB: 11-3	
3			
3	Solve word problems involving division of whole		
	numbers leading to answers in the form of		
	fractions or mixed numbers.		
	Apply and extend previous understandings of		
4	multiplication to multiply a fraction by a whole		
· ·	number or a fraction.		
	Interpret the product $a/b \ge q$ as a parts of a	30-32	
	partition of q into b equal parts; equivalently, as	SB: 19-2 to 19-5	
a)		3D . 19-2 to 19-5	
	the result of a sequence of operations $a \times q \div$		
	Find the area of a rectangle with fractional side		SB: 38-6
	lengths by tiling it with rectangles of the		
	appropriate unit fraction side lengths, and show		
b)	that the area is the same as would be found by		
5)	multiplying the side lengths. Multiply fractional		
	side lengths to find areas of rectangles, and		
	represent fraction products as rectangular areas.		
5	Interpret multiplication as scaling (resizing).		
	Compare the size of a product to the size of one	29	
a)	factor on the basis of the size of the other factor,		
aj	without performing the indicated multiplication.		
	Explain why multiplying a given number by a	28-30	
	fraction greater than 1 results in a product greater		
	than the given number (recognizing		
	multiplication by whole numbers greater than 1		
	as a familiar case). Explain why multiplying a		
b)	given number by a fraction less than 1 results in		
	a product smaller than the given number. Relate		
	the principle of fraction equivalence $a/a = a/b \times a$		
	n/n to the effect of multiplying a/b by 1.		
	Init to the effect of multiplying and by 1.		
	Solve real world problems involving multiplication	28-32	
6	of fractions and mixed numbers.	SB: 19-1 to 19-5	
	Apply and extend previous understandings of		
	division to divide unit fractions by whole		
	numbers and whole numbers by unit fractions.		
	Noto: Studente able te multiply fractions in		
7	Note: Students able to multiply fractions in		
	general can develop strategies to divide fractions		
	in general, by reasoning about the relationship		
	between multiplication and division. But division		
	of a fraction by a fraction is not a requirement		
	until grade 6 (NY-6.NS.1).		
	Interpret division of a unit fraction by a non-zero	34	
a)	whole number, and compute such quotients.		
b)	Interpret division of a whole number by a unit	34 SP: 20, 2, 20, 5	
	fraction, and compute such quotients.	SB: 20-2, 20-5	11

	Solve real-world problems involving division of		34	
c)	unit fractions by non-zero whole numbers and			
0,	division of whole numbers by unit fractions.			
		IM1	IM2	IM3
		Number,		-
			Fraction, Decimal, Percent, &	Geometry,
		Reasoning, &		Measurement, &
		Data Student	Probability Student	Graphing Student
		Book/Skill	Book/Skill Builder	Book/Skill Builder
	Measurement and Data	Builder (SB)	(SB)	(SB)
	Convert like measurement units within a			
5.MD	given measurement system.			
	Convert among different-sized standard			31, 33-37, 39
	measurement units within a given measurement			SB: 36-4, 36-6, 40-
	-			
1	system when the conversion factor is given. Use			1, 40-2, 41-1, 41-2,
	these conversions in solving multi-step, real			42-1, 42-2
5 MD	world problems.			
5.MD	Represent and interpret data.			
	Make a line plot to display a data set of			
•	measurements in fractions of a unit (1/2, 1/4,			
2	1/8). Use operations on fractions for this grade to			
	solve problems involving information presented			
	in line plots.			
	Geometric measurement: understand			
5.MD	concepts of volume and relate volume to			
	multiplication and to			
	addition.			
	Recognize volume as an attribute of solid figures			
3	and understand concepts of volume			
	measurement.			
	Recognize that a cube with side length 1 unit,			52
a)	called a "unit cube," is said to have "one cubic			
uj	unit" of volume, and can be used to measure			
	volume.			
	Recognize that a solid figure which can be			52
b)	packed without gaps or overlaps using <i>n</i> unit			
	cubes is said to have a volume of n cubic units.			
	Measure volumes by counting unit cubes, using			52, 53
4	cubic cm, cubic in., cubic ft., and improvised			SB: 39-1, 39-2, 39-5
	units.			
	Relate volume to the operations of multiplication			
5	and addition and solve real world and			
	mathematical problems involving volume.			
	Find the volume of a right rectangular prism with			53
	whole-number side lengths by packing it with			SB: 39-2, 39-3
- 1	unit cubes, and show that the volume is the			
a)	same as would be found by multiplying the edge			
	lengths, equivalently by multiplying the height by			
	the area of the base.			
	Apply the formulas $V = I \times w \times h$ and $V = B \times h$			
	for rectangular prisms to find volumes of right			
b)	rectangular prisms with whole-number edge			
~,	lengths in the context of solving real world and			
	mathematical problems.			
			11	11

c)	Recognize volume as additive. Find volumes of solid figures composed of two nonoverlapping right rectangular prisms by adding the volumes of the non-overlapping parts, applying this technique to solve real world problems.	IM1	IM2	SB: 39-7 IM3
		Number, Reasoning, & Data Student Book/Skill Builder (SB)	Fraction, Decimal, Percent, & Probability Student Book/Skill Builder (SB)	Geometry, Measurement, & Graphing Student Book/Skill Builder (SB)
	Geometry			
5.G	Graph points on the coordinate plane to solve real-world and mathematical problems.			
1	Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond.	77 SB: 43-1		16 SB: 43-1
2	Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.	77, 78 SB: 44-4		15
5.G	Classify two-dimensional figures into categories based on their properties.			
3	Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category.			9 SB: 34-4, 34-5
4	Classify two-dimensional figures in a hierarchy based on properties.			9