	4850 Park Glen Road, Minr	ers Pres 1eapolis, MN 5541 fax (952) 546-750	ss, Inc.	
	Correlation of <i>Moving wi</i> To Ohio Aca	<i>ddle</i> Grade 6		
		IM1 <i>Number,</i> <i>Reasoning &</i> <i>Data</i> Student Book Skill Builders (SB)	IM2 <i>Fractions,</i> <i>Decimals &</i> <i>Percent</i> Student Book Skill Builders (SB)	IM3 Geometry, Measurement & Graphing Student Book Skill Builders (SB)
	NUMBER, NUMBER SENSE AND OPERATION STANDARDS			
	Students demonstrate number sense including an understanding of number systems and operations, and how they relate to one another. Students compute fluently and make reasonable estimates using paper and pencil, technology-supported and mental methods.			
	NUMBER AND NUMBER SYSTEMS			
1.	Decompose and recompose whole numbers using factors and exponents (e.g., $32 = 2 \times $	13-18, 76-78 SB: 4-1, 4-3 to 4- 5	1 SB: 4-1, 4-2	SB: 4-1
2.	Find and use the prime factorization of composite numbers. For example:			
	a. Use the prime factorization to recognize the greatest common factor (GCF).	13, 14, 17, 18, 76 SB: 4-6	8, 48 SB: 12-2, 12-4 to 12-7, 12-10	
	b. Use the prime factorization to recognize the least common multiple (LCM).	14 SB: 4-3	17-19, 21-23, 25, 48 SB: 13-4, 16-3, 16-4, 17-1, 17-3, 17-4, 18-1 to 18-4	SB: 17-1, 18-1

		IM1 <i>Number,</i> <i>Reasoning &</i> <i>Data</i> Student Book Skill Builders (SB)	IM2 Fractions, Decimals & Percent Student Book Skill Builders (SB)	IM3 <i>Geometry,</i> <i>Measurement &</i> <i>Graphing</i> Student Book Skill Builders (SB)
	c. Apply the prime factorization to solve problems and explain solutions.	13-15 SB: 4-2	48 SB: 4-3	
3.	Explain why a number is referred to as being "rational," and recognize that the expression <i>a/b</i> can mean <i>a</i> parts of size 1/ <i>b</i> each, <i>a</i> divided by <i>b</i> , or the ratio of <i>a</i> to <i>b</i> .		2-6 SB: 11-1 to 11-6	SB: 11-1
4.	Describe what it means to find a specific percent of a number, using real-life examples.		70-72 SB: 53-1 to 53-4	SB: 53-1
5.	Use models and pictures to relate concepts of ratio, proportion and percent, including percents less than1 and greater than 100.		7, 12, 13, 20, 35, 50, 51 SB: 14-1, 14-2, 17-2, 24-2, 29-1 to 29-3, 30-1, 30- 2	SB: 14-1, 29-1, 30-1
6.	Use the order of operations, including the use of exponents, decimals and rational numbers, to simplify numerical expressions.	19-25 SB: 5-1 to 5-7	14-16, 18, 19, 21- 23, 25 SB: 15-1 to 15-3, 16-1, 16-2, 17-1, 17-3, 17-4, 18-1 to 18-4, 49-1, 50- 1	SB: 5-1, 15-1, 16-1, 17-1, 18- 1
7.	Use simple expressions involving integers to represent and solve problems; e.g., if a running back loses 15 yards on the first carry but gains 8 yards on the second carry, what is the net gain/loss?	63-69 SB: 59-1 to 59-7	SB: 59-1	SB: 58-1, 59-1
8.	Represent multiplication and division situations involving fractions and decimals with models and visual representations; e.g., show with pattern blocks what it means to take 2 $2/3 \div 1/6$.		28-34, 57-64 SB: 19-1 to 19-5, 20-1 to 20-5, 27-1 to 27-6, 28-1 to 28-7, 45-1, 45-2, 45-4 to 45-15	SB: 19-1, 20-1, 27-1, 28-1, 45- 1

		IM1	IM2	IM3
		Number,	Fractions,	Geometry,
		Reasoning &	Decimals &	Measurement &
		Data	Percent	Graphing
		Student Book	Student Book	Student Book
		Skill Builders	Skill Builders	Skill Builders
		(SB)	(SB)	(SB)
9	Give examples of how ratios are	()	4-6, 13, 50	56
	used to represent comparisons:		SB: 12-1, 12-3,	SB • 12-1 52-1
	e a part-to-part part-to-whole		12-8, 14-2	ODI 12 1, 02 1
	whole-to-nart			
10	Recognize that a quotient may be		33, 34, 62	SB: 20-1, 28-1
	larger than the dividend when the		SB: 20-1, 20-4,	
	divisor is a fraction; e.g., $6 \div 1/2$		28-2, 28-6, 45-15	
	= 12.			
	COMPUTATION AND ESTIMATION			
11	Perform fraction and decimal		9-11, 13-16, 18,	SB: 13-1, 15-1,
•	computations and justify their		19, 21-23, 25-36,	16-1, 17-1, 18-
	solutions; e.g., using		41-45, 49, 51, 54- 67	1, 19-1, 20-1,
	manipulatives, diagrams,		SB: 12-3, 12-8,	21-1, 23-1, 24-
	mathematical reasoning.		13-1, 13-2, 13-5,	1, 26-1, 27-1,
			14-2, 15-1 to 15-	28-1, 45-1
			3, 16-1, 16-2, 17-	
			1, 17-3, 17-4, 18-	
			1 to 18-4, 19-1 to 19-5, 20-1 to 20-	
			5. 21-1 to 21-3.	
			23-1 to 23-4, 24-1	
			to 24-4, 25-3, 25-	
			4, 26-1 to 26-4,	
			27-1 to 27-6, 28-1	
			to 28-7, 45-1 to	
12	Develop and analyze algorithms		10, 11, 28-36, 47,	SB: 13-1, 19-1,
•	for computing with fractions and		01, 00-07 SB- 13-1 13-0	20-1, 25-1, 26-
	decimals, and demonstrate		13-5, 19-1 to 19-	1, 27-1, 28-1,
	fluency in their use.		5, 20-1 to 20-5,	45-1
			24-2, 24-4, 25-1	
			to 25-4, 26-1, 27-	
			1 to 27-6, 28-1 to	
			∠ö-7, 45-1 to 45- 14	
13	Estimate reasonable solutions to		12, 24, 25, 33, 36,	SB: 51-1
	problem situations involving		52, 53, 56, 60-62,	
	fractions and decimals; e.g., 7/8		65, 66, 70	
	+ 12/13 ≈ 2 and 4.23 X 5.8 ≈		30 : 13-3, 14-1, 18-3 18-4 20-1	
	25.		to 20-5, 45-3, 45-	
			5, 45-6, 45-8 to	
			45-10, 45-12, 51-	
			2 to 51-4	

		IM1	IM2	IM3
		Number,	Fractions,	Geometry,
		Reasoning &	Decimals &	Measurement &
		Data	Percent	Graphing
		Student Book	Student Book	Student Book
		Skill Builders	Skill Builders	Skill Builders
		(SB)	(SB)	(SB)
14	Use proportional reasoning ratios	(02)	26 27 64 68-70	56-61
	and percents to represent		72	SB • 20_1 52_1
· ·	and percents to represent		SB: 12-3, 12-8,	$30.20^{-1}, 32^{-1}, 52^{-1}$
	problem situations and determine		30-3 to 30-5, 53-	52-2, 52-4, 52-
	the reasonableness of solutions.		1, 53-2, 53-4	5, 53-1
15	Determine the percent of a		68-71	SB: 53-1
	number and solve related		SB: 29-3, 30-1 to	
	problems: e.g., find the percent		30-5, 53-1 to 53-4	
	markdown if the original price was			
	\$140 and the sale price is $$100$			
	MEASUREMENT STANDARD			
	Students estimate and measure			
	to a required degree of accuracy			
	and precision by selecting and			
	using appropriate units tools and			
	technologies.			
	MEASUREMENT UNITS			
1.	Understand and describe the			11, 13, 53, 54
	difference between surface area			SB: 39-4
	and volume.			
	USE MEASUREMENT TECHNIOUES			
	AND TOOLS			
2.	Use strategies to develop			11, 12, 14
	formulas for finding circumference			SB: 35-2
	and area of circles, and to			
	determine the area of sectors;			
	e.g., 1/2 circle, 2/3 circle, 1/3			
	circle, 1/4 circle.			
	-,			
3.	Estimate perimeter or			
	circumference and area for			
	circles. triangles and			
	quadrilaterals and surface area			
	and volume for prisms and			
	and volume for prisms and			
	cymuers by.			

		IM1	IM2	IM3
		Number,	Fractions,	Geometry,
		Reasoning &	Decimals &	Measurement &
		Data	Percent	Graphing
		Student Book	Student Book	Student Book
		Skill Builders	Skill Builders	Skill Builders
		(SR)	(SB)	(SR)
	a. Estimating lengths using string or links, areas using tiles or grid,			14, 30, 32, 41, 43, 44, 52-54
	and volumes using cubes;			SB: 35-2, 36-1 to 36-3, 36-5, 36-7, 38-4, 38- 5, 38-13, 39-1 to 39-3, 45-5
	b. Measuring attributes (diameter, side lengths, or heights) and using established formulas for circles; triangles, rectangles, parallelograms and rectangular prisms.			14, 21, 41-43, 45-49, 53 SB: 35-2, 38-3 to 38-13, 39-3, 39-5, 55-1 to 55-3
4	Determine which measure			31 39 50
	(perimeter, area, surface area, volume) matches the context for a problem situation; e.g., perimeter is the context for fencing a garden, surface area is the context for painting a room.			SB: 45-3, 45-4
5.	Understand the difference between perimeter and area, and demonstrate that two shapes may have the same perimeter, but different areas or may have the same area, but different perimeters.			40, 50 SB: 38-1, 38-2, 38-8, 38-11
6.	Describe what happens to the perimeter and area of a two- dimensional shape when the measurements of the shape are changed, e.g. length of sides are doubled.			51
	CEOMETRY AND SDATIAL SENSE			
	STANDARD			

		IM1	IM2	IM3
		Number,	Fractions,	Geometry,
		Reasoning &	Decimals &	Measurement &
		Data	Percent	Graphing
		Student Book	Student Book	Student Book
		Skill Builders	Skill Buildere	Skill Buildors
	Studente identific eleccific	(30)		(30)
	Students identify, classify,			
	compare and analyze			
	characteristics, properties and			
	relationships of one-, two-, and			
	three-dimensional geometric			
	figures and objects. Students use			
	spatial reasoning, properties of			
	geometric objects and			
	transformations to analyze			
	mathematical situations and solve			
	problems.			
	CHARACTERISTICS AND			
	PROPERTIES			
1.	classify and describe two-			2-4, 6, 7, 9, 11,
	dimensional and three-dimensional			13, 18, 19, 23,
	geometric figures and objects by			24, 63
	using their properties; e.g.,			SB: 31-1, 31-2,
	interior angle measures,			32-1 to 32-5,
	perpendicular/parallel sides,			34-1, 34-2, 34-
	congruent angles/sides.			4 to 34-6, 34-
				10. 35-1. 37-1
				to 37-3, 54-1.
				55-1 to 55-3.
				60-6
2.	Use standard language to define			5, 9, 11, 12, 18,
	geometric vocabulary: vertex.			23, 24
	face, altitude, diagonal. isosceles.			SB: 13-1. 34-4
	equilateral, acute, obtuse and			to 34-6. 34-10
	other vocabulary as appropriate			54-1
				5
2	Use multiple classification critoria			8
J.	to classify triangles: a g right			CB- 3/-2 2/ 10
	to classify thangles, e.g. right			30: 34-3, 34-10
	scalene triangle.			
4.	Identify and define relationships			12
	between planes; I.e., parallel,			
	perpendicular and intersecting.			
	SPATIAL RELATIONSHIPS			

		IM1	IM2	IM3
		<i>Number, Reasoning & Data</i> Student Book Skill Builders	<i>Fractions, Decimals & Percent</i> Student Book Skill Builders	<i>Geometry,</i> <i>Measurement &</i> <i>Graphing</i> Student Book Skill Builders
		(SB)	(SB)	(SB)
5.	Predict and describe sizes, positions and orientations of two- dimensional shapes after transformations such as reflections, rotations, translations and dilations.			20 SB: 60-4
	TRANSFORMATIONS AND SYMMETRY			
6.	Draw similar figures that model proportional relationships; e.g., model similar figures with a 1 to 2 relationship by sketching two of the same figure, one with corresponding sides twice the length of the other.			62, 64 SB: 52-6
	VISUALIZATION AND GEOMETRIC MODELS			
7.	Build three-dimensional objects with cubes, and sketch the two- dimensional representations of each side; I.e., projection sets.			55 SB: 34-6 to 34- 8
	PATTERNS, FUNCTIONS AND ALGEBRA STANDARDS			
	Students use patterns, relations and functions to model, represent and analyze problem situations that involve variable quantities. Students analyze, model and solve problems using various representations such as tables, graphs and equations			
	USE PATTERNS, RELATIONS AND FUNCTIONS			

		IM1 <i>Number,</i> <i>Reasoning &</i> <i>Data</i> Student Book Skill Builders (SB)	IM2 <i>Fractions,</i> <i>Decimals &</i> <i>Percent</i> Student Book Skill Builders (SB)	IM3 Geometry, Measurement & Graphing Student Book Skill Builders (SB)
1.	Represent and analyze patterns, rules and functions, using physical materials, tables and graphs.	2-7, 32-49 SB: 1-1 to 1-5, 2- 1 to 2-4, 6-1 to 6- 3, 7-1 to 7-4, 8-1 to 8-7, 9-1, 9-2, 9- 4, 9-5, 10-1 to 10- 3, 10-5 to 10-7, 44-1 to 44-6, 45-3 to 45-6, 49-1, 49- 2, 50-1 to 50-3	63 SB: 1-1, 2-1, 3-1, 6-1, 7-1, 8-1, 9-1, 10-1, 10-2, 12-1, 12-9, 24-1, 27-4, 28-3, 28-7, 44-1	10, 17, 21, 22, 74 SB: 1-1, 2-1, 6- 1, 7-1, 8-1, 9-1, 10-1, 12-1, 24- 1, 40-1 to 40-3, 44-4, 49-1, 50- 1, 55-2, 55-3, 56-1, 60-1, 60- 3, 60-5
2.	Use words and symbols to describe numerical and geometric patterns, rules and functions.	2-12, 26-28, 33- 49, 51-53 SB: 1-1 to 1-5, 2- 1 to 2-4, 3-1 to 3- 4, 8-3 to 8-7, 9-1, 9-2, 9-4, 9-5, 10-1 to 10-3, 10-5 to 10-7, 44-1 to 44-3	46, 63 SB: 1-1, 2-1, 3-1, 4-1, 10-1, 10-2, 22-1, 22-2, 27-4, 28-3, 28-7, 44-1	10, 17, 21, 22 SB: 1-1, 2-1, 3- 1, 10-1, 12-1, 22-1, 30-1, 34- 9, 40-1 to 40-3, 44-1 to 44-4, 55-2, 55-3, 56- 1, 60-1, 60-2
	USE ALGEBRAIC REPRESENTATIONS			
3.	Recognize and generate equivalent forms of algebraic expressions, and explain how the commutative, associative and distributive properties can be used to generate equivalent forms; e.g., perimeter as $2(l + w)$ or $2l + 2w$.	19-21, 70 SB: 5-1 to 5-8, 45- 7 to 45-12, 56-1 to 56-5	SB: 5-1, 5-2, 56-1	SB: 5-1
4.	Solve simple linear equations and inequalities using physical models, paper and pencil, tables and graphs.	29-35, 39-50, 53- 58, 71, 72 SB: 5-5 to 5-8, 8- 1 to 8-7, 9-1 to 9- 3, 10-1, 10-4, 10- 7, 45-1, 45-2, 45- 7 to 45-17, 56-1 to 56-5	65-67 SB: 9-1, 10-1, 45- 1 to 45-3, 45-6, 45-9, 56-1	27, 33-37, 75 SB: 8-1, 9-1, 10- 1, 36-4, 36-6, 38-4, 38-6, 38- 7, 38-10, 38- 12, 41-1, 41-2, 42-1, 42-2, 45- 1, 45-2, 52-2, 55-1 to 55-3, 56-2
5	Produce and interpret graphs that represent the relationship between two variables.	SB: 43-1, 44-4, 44-5, 45-7 to 45-12	SB: 43-1	15, 16, 75 SB: 43-1

		IM1 Number, Reasoning &	IM2 Fractions, Decimals & Percent	IM3 Geometry, Measurement & Graphing
		Student Book Skill Builders (SB)	Student Book Skill Builders (SB)	Student Book Skill Builders (SB)
6.	Evaluate simple expressions by replacing variables with given values, and use formulas in problem-solving situations.	76		38, 39 SB: 39-2 to 39- 5, 45-2 to 45-4
7	ANALIZE CHANGE	72 75		21
1.	with constant or varying rates of change, and compare them.	13-13		SB: 40-1 to 40-4, 44-1, 52-3
8.	Use technology to analyze change; e.g., use computer applications or graphing calculators to display and interpret rate of change.			
	PROBABILITY STANDARD			
	Students pose questions and collect, organize, represent, interpret and analyze data to answer those questions. Students develop and evaluate inferences, predictions and arguments that are based on data.			
	DATA COLLECTION			
1.	Read, construct and interpret line graphs, circle graphs and histograms.	SB: 46-5	37, 38 SB: 48-1 to 48-3	69, 71-73 SB: 47-3, 48-1 to 48-3
2.	Select, create and use graphical representations that are appropriate for the type of data collected.	61 SB: 46-5		66, 70, 76 SB: 47-2, 47-4
3.	Compare representations of the same data in different types of graphs, such as a bar graph and circle graph.	61	37, 38	76
	STATISTICAL METHODS			
	STATISTICAL METHUDS			

		IM1 <i>Number,</i> <i>Reasoning &</i> <i>Data</i> Student Book Skill Builders (SB)	IM2 <i>Fractions,</i> <i>Decimals &</i> <i>Percent</i> Student Book Skill Builders (SB)	IM3 Geometry, Measurement & Graphing Student Book Skill Builders (SB)
4.	Understand the different information provided by measures of center (mean, mode and median) and measures of spread (range).	59-62 SB: 46-1 to 46-4	SB: 46-1	75
5.	Describe the frequency distribution of a set of data, as shown in a histogram or frequency table, by general appearance or shape; e.g., number of modes, middle of data, level of symmetry, outliers.			65, 68 SB: 46-1, 47-1, 47-5, 48-4, 48- 5
6.	Make logical inferences from statistical data.			67 SB: 47-5, 47-6
	PROBABILITY			
7.	Design an experiment to test a theoretical probability and explain how the results may vary.		73-78 SB: 57-1 to 57-4, 58-1 to 58-4	SB: 57-1, 58-1