

		IM1 Number Reasoning	IM2 Fractions Decimals	IM3 Geometry
		& Data Student Book Skill Builders (SB)	& Percent Student Book Skill Builders (SB)	<i>Measurement,</i> <i>Graphing</i> Student Book Skill Builders (SB)
	<b>c.</b> Represent with models the connection between fractions, decimals, and percents and be able to convert from one representation to another (e.g., use 10 x 10 grids, base-10 blocks; limit fractions to halves, fourths, fifths, and tenths).		42, 43, 47, 67, 69 <b>SB:</b> 21-1, 21-3, 30- 1, 30-3, 30-4	
	<b>d.</b> Explain verbally with manipulatives and diagrams 25%, 50%, 75%; use these percents to solve problems and relate them to their corresponding fractions and decimals.		67, 69 <b>SB:</b> 29-1, 29-3, 30- 2	
2.	Basic number theory concepts			
	a. Apply the basic properties of arithmetic: commutative, associative, distributive, and identity (e.g., show 2 (5 + 1) = $(2 \cdot 5) + (2 \cdot 1)$ , given $(5 + 1) + (5 + 1)$ regroup to show this equals $(5 + 5) + (1 + 1)$ concluding with $(2 \cdot 5) + (2 \cdot 1)$ to solve problems.	19-21 <b>SB:</b> 5-1 to 5-3, 5- 5		
	<ul> <li>b. Identify and apply factors, multiples, prime, and composite numbers in a variety of problem-solving situations (e.g., build rectangular arrays for numbers 1-100 and classify as prime or composite).</li> </ul>	13-15 18 <b>SB:</b> 4-1, 4-2, 4-5, 4-6	8, 18 <b>SB:</b> 4-2, 4-3	
	STANDARD 3: NUMBER OPERATIONS AND COMPUTATION			
	The student will estimate and compute with whole numbers, decimals and fractions.			
1.	Estimation			
	<b>a.</b> Apply estimation skills to solve problems involving decimals.		56, 65 <b>SB:</b> 45-5	
	<b>b.</b> Apply estimation skills to solve problems involving common percents and equivalent fractions.		24, 25 <b>SB:</b> 13-3, 18-3, 18- 4, 45-3	
2.	Whole numbers, decimals and fractions			

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	<b>a.</b> Add and subtract decimal numbers with the same and different place values (e.g., 3.72 + 1.4) to solve problems.		54, 55 <b>SB:</b> 26-2 to 26-4	
	<b>b.</b> Multiply and divide whole numbers and decimal numbers with 1- or 2-digit multipliers or divisors to solve problems.	32-36, 39-47 <b>SB:</b> 8-2, 8-4, 9-2, 10-2	57-64 <b>SB:</b> 8-1, 10-1, 27- 1, 27-2, 27-5, 28- 1, 28-2	
	<b>c.</b> Add and subtract fractions and mixed numbers to solve problems using a variety of methods (e.g., use fraction strips, find the least common denominator [LCD]).		14-17, 19-23 <b>SB:</b> 15-1 to 15-3, 16-1 to 16-4, 17- 1 to 17-4, 18-1, 18-2	
	STANDARD 4: GEOMETRY AND MEASUREMENT			
	The student will apply geometric properties and relationships and use measurements within the metric and customary systems to solve problems in a variety of contexts.			
1.	Identify and describe the basic properties of figures (e.g., two or three- dimensionality, symmetry, number of faces, types of angles).			5-14 <b>SB:</b> 34-1 to 34-8
2.	Find the perimeter of simple polygons and area of a rectangle (e.g., use 1-inch tiles to build rectangles of different perimeters and areas).			40-46 <b>SB:</b> 38-1 to 38-4
3.	Use nonstandard units (beans, rice, candies) and standard units (centimeter cubes, 1-inch cubes) to find the volume of rectangular solids and estimate the volume of other solids.			52, 53 <b>SB:</b> 39-2, 39-5
4.	Use the appropriate units and tools to estimate and measure temperature, distance, length, weight, and angles.			6, 29, 30-32, 34, 35 <b>SB:</b> 36-2, 36-3, 36- 5, 40-4

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5.	Convert basic measurements of volume, weight and distance within the same system for metric and customary units (e.g., inches to feet, hours to minutes, centimeters to meters).			31, 33-37 <b>SB:</b> 36-4, 36-6, 41- 1, 41-2, 42-1, 42- 2
	STANDARD 5: DATA ANALYSIS AND PROBABILITY			
	The student will use data analysis, statistics and probability to interpret data in a variety of contexts.			
1.	Data analysis			
	<b>a.</b> Analyze data to create and interpret tables and graphs.			66-75 <b>SB:</b> 47-1 to 47-6, 48-1 to 48-5
	<b>b.</b> Justify the selection of the type of table or graph (e.g., a line graph may be more appropriate than a bar graph when displaying the height of a person over time).			76 <b>SB:</b> 48-4
	<b>c.</b> Compare and translate between displays of data (e.g., multiple sets of data on the same graph. Venn diagrams, a combination of diagrams, charts, tables, graphs).			66, 68, 74 <b>SB:</b> 47-2, 47-3
	<b>d.</b> Formulate questions, design investigations, consider samples, and collect, organize, and analyze data using observation, measurement, surveys, or experiments (e.g., how far can 5th graders throw a softball based on where it first hits the ground?).	61 <b>SB:</b> 46-5		66 <b>SB:</b> 47-4, 47-5, 48- 2
	<b>e.</b> Determine the range (spread) and the mean (average) of a set of data.	59-62 <b>SB:</b> 46-1 to 46-4	<b>SB:</b> 46-1	65 <b>SB:</b> 46-1
2.	Probability			

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<b>a.</b> Determine the probability of events occurring in familiar contexts or experiments and express probabilities as fractions (e.g., find the fractional probability of an event given a biased spinner).		73-75 <b>SB:</b> 57-1, 57-3	
<b>b.</b> List permutations and combinations of up to five items.		76, 77 <b>SB:</b> 58-2, 58-3	<b>SB:</b> 58-1