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Correlation of *Moving with Math®-by-Topic Level C Grade 5* To California Standards

NUMBER SENSE

Student Book

Skill Builders

<p>1.0 Students compute with very large and very small numbers, positive integers, decimals, and fractions and understand the relationship between decimals, fractions, and percents. They understand the relative magnitudes of numbers:</p>	<p>CI: 3-22, 77, 78 CII: 9-11, 17, 63-76, 95, 96</p>	<p>1-1 to 1-3, 2-1 to 2-5, 3-1, 3-2, 4-1, 4-2, 11-1, 14-3, 21-1 to 21-3, 24-1 to 24-3, 25-1 to 25-3, 29-1</p>
<p>1.1 Estimate, round, and manipulate very large (e.g., millions) and very small (e.g., thousandths) numbers.</p>	<p>CI: 3-16 CII: 63-75</p>	<p>1-1 to 1-3, 2-1 to 2-5, 3-1, 3-2, 21-1 to 21-3, 24-1 to 24-3</p>
<p>1.2 Interpret percents as a part of a hundred; find decimal and percent equivalents for common fractions and explain why they represent the same value; compute a given percent of a whole number.</p>	<p>CII: 76, 95, 96</p>	<p>25-1 to 25-3, 29-1</p>
<p>1.3 Understand and compute positive integer powers of nonnegative integers; compute examples as repeated multiplication.</p>	<p>CI: 21, 22</p>	
<p>1.4 Determine the prime factors of all numbers through 50 and write the numbers as the product of their prime factors by using exponents to show multiples of a factor (e.g, $24 = 2 \times 2 \times 2 \times 3 = 2^3 \times 3$)</p>	<p>CI: 17-22</p>	<p>4-1, 4-2</p>
<p>1.5 Identify and represent on a number line decimals, fractions, mixed numbers, and positive and negative integers.</p>	<p>CI: 77, 78 CII: 9-11, 17, 66, 67</p>	<p>11-1, 14-3</p>
<p>2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.</p>	<p>CII: 31-55</p>	<p>15-1 to 15-5, 16-1 to 16-4, 17-1 to 17-7, 18-1, 18-2, 19-1 to 19-3, 20-1 to 20-4</p>

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2. Add, subtract, multiply, and divide with decimals; 1 add with negative integers; subtract positive integers from negative integers; and verify the reasonableness of the results.	CI: 17-26, 30-78 CII: 76-79	4-1, 4-2, 5-1, 5-2, 6-1, 6-2, 44-1 to 44-3, 45-1 to 45-8, 45-13 to 45-17, 46-1, 46-2, 49-1, 49-2, 50-1
2. Demonstrate proficiency with division, including 2 division with positive decimals and long division with multi-digit divisors.	CI: 51-66 CII: 87-94	9-1 to 9-4, 10-1 to 10-8, 28-1 to 28-4
2. Solve simple problems, including ones arising in 3 concrete situations, involving the addition and subtraction of fractions and mixed numbers (like and unlike denominators of 20 or less), and express answers in the simplest form.	CI: 38-40, 52, 58, 59, 67-78 CII: 46, 47, 56-58, 80, 90-92	45-9 to 45-12
2. Understand the concept of multiplication and 4 division of fractions.	CII: 48-55	19-1 to 19-3, 20-1 to 20-4
2. Compute and perform simple multiplication and 5 division of fractions and apply these procedures to solving problems.	CII: 46, 47, 56-58	45-9, 45-10
ALGEBRA AND FUNCTIONS		
1. Students use variables in simple expressions, 0 compute the value of the expression for specific values of the variable, and plot and interpret the results:	CI: 25, 26, 72-74, 78 CIII: 65-70	
1. Use information taken from a graph or equation 1 to answer questions about a problem situation.	CIII: 65-70	
1. Students understand the relationship between 2 whole numbers, simple fractions, and decimals:	CIII: 68, 69	
1. Know and use the distributive property in 3 equations and expressions with variables.	CI: 25, 26	
1. Identify and graph ordered pairs in the four 4 quadrants of the coordinate plane.	CI: 72, 73, 78	
1. Solve problems involving linear functions with 5 integer values; write the equation; and graph the resulting ordered pairs of integers on a grid.	CI: 73, 74	
MEASUREMENT AND GEOMETRY		
1. Students understand and compute the volumes 0 and areas of simple objects:	CIII: 39-50	38-1 to 38-6, 39-1 to 39-4

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1. Derive and use the formula for the area of a triangle and of a parallelogram by comparing it with the formula for the area of a rectangle (i.e., two of the same triangles make a parallelogram with twice the area; a parallelogram is compared with a rectangle of the same area by cutting and pasting a right triangle on the parallelogram).		
1. Construct a cube and rectangular box from two-dimensional patterns and use these patterns to compute the surface area for these objects.		
1. Understand the concept of volume and use the appropriate units in common measuring systems to compute the volume of rectangular solids.	CIII: 47-50	39-1 to 39-4
1. Differentiate between, and use appropriate units of measures for, two- and three dimensional objects (i.e., find the perimeter, area, volume).	CIII: 39-50	38-1 to 38-6, 39-1 to 39-4
2. Students identify, describe, and classify the properties of, and the relationships between, plane and solid geometric figures:		39-1 to 39-4
2. Measure, identify, and draw angles, perpendicular and parallel lines, rectangles, and triangles by using appropriate tools (e.g., straightedge, ruler, compass, protractor, drawing software).	CIII: 8-13, 36-38	32-1, 32-2, 33-1, 37-1, 37-2
2. Know that the sum of the angles of any triangle is 180° and the sum of the angles of any quadrilateral is 360° and use this information to solve problems.		
2. Visualize and draw two-dimensional views of three-dimensional objects made from rectangular solids.	CIII: 47-50	39-1 to 39-3
STATISTICS, DATA ANALYSIS, AND PROBABILITY		
1. Students display, analyze, compare, and interpret different data sets, including data sets of different sizes:	CI: 58, 59, 78 CIII: 63-70	47-1, 47-2, 48-1, 48-2
1. Know the concepts of mean, median, and mode; compute and compare simple examples to show that they may differ.	CI: 58, 59	
1. Organize and display single-variable data in appropriate graphs and representations (e.g., histogram, circle graphs) and explain which types of graphs are appropriate for various data sets.	CI: 59 CIII 63-70	47-1, 47-2, 48-1, 48-2
1. Use fractions and percentages to compare data sets of different sizes.	CIII: 68, 69	

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1. Identify ordered pairs of data from a graph and 4 interpret the meaning of the data in terms of the situation depicted by the graph.		CI: 78 CIII: 65-67	
1. Know how to write ordered pairs correctly; for 5 example, (x, y)			
MATHEMATICAL REASONING			
1. Students make decisions about how to approach 0 problems:		CI: 38-40, 52, 67-78 CII: 46, 47, 56-58, 80, 90-92	45-1 to 45-17
1. Analyze problems by identifying relationships, 1 distinguishing relevant from irrelevant information, sequencing and prioritizing information, and observing patterns.		CI: 38-40, 52, 67-78 CII: 46, 47, 56-58, 80, 90-92	45-1 to 45-17
1. Determine when and how to break a problem into 2 simpler parts.		CI: 76	
2. Students use strategies, skills, and concepts in 0 finding solutions:		CI: 30-57, 60, 62, 67-78 CII: 46, 47, 56-58, 80, 90-92	45-1 to 45-17, 50-1, 50-2
2. Use estimation to verify the reasonableness of 1 calculated results.		CI: 30-57, 60, 62	49-1, 49-2, 50-1, 50-2
2. Apply strategies and results from simpler 2 problems to more complex problems.		CI: 38-40, 52, 67-78 CII: 46, 47, 56-58, 80, 90-92	45-1 to 45-17
2. Use a variety of methods, such as words, 3 numbers, symbols, charts, graphs, tables, diagrams, and models to explain mathematical reasoning.		CI: 38-40, 52, 67-78 CII: 46, 47, 56-58, 80, 90-92	45-1 to 45-17
2. Express the solution clearly and logically by using 4 the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work.		CI: 38-40, 52, 67-78 CII: 46, 47, 56-58, 80, 90-92	45-1 to 45-17
2. Indicate the relative advantages of exact and 5 approximate solutions to problems and give answers to a specified degree of accuracy.			
2. Make precise calculations and check the validity 6 of the results from the context of the problem.		CI: 66, 67, 69	
3. Students move beyond a particular problem by 0 generalizing to other situations.		CI: 75, 76	

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3.1	Evaluate the reasonableness of the solution in the context of the original situation.	CI: 38-40, 52, 67-78 CII: 46, 47, 56-58, 80, 90-92	45-1 to 45-17
3.2	Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.	CI: 16, 18, 19, 33, 41-44, 46, 49, 50, 53, 62, 72 CII: 18, 19, 24, 86, 88, 89, 94	
3.3	Develop generalizations of the results obtained and apply them in other circumstances.	CI: 40, 42, 58, 67-69, 76	
	CI: <i>Numeration & Problem Solving</i>		
	CII: <i>Fractions, Decimals & Percent</i>		
	CIII: <i>Geometry & Measurement</i>		