Grade 5 Content Standards - Math

Standard	CST	CHSEE	Framework Emphasis	Algebra Readiness	Essential Standards	Essential Standards		
						T1	T2	T3
Number Sense	29 / 45%							
Standard Set 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:	***12			ß				
1.1 Estimate, round, and manipulate very large (e.g., millions) and very small (e.g., thousandths) numbers.	1							
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.	5		☆		~			F
1.3 Understand and compute positive integer powers of nonnegative integers; compute examples as repeated multiplication.	1			S	~		F	R
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., $24 = 2 \times 2 \times 2 \times 3 = 23 \times 3$).	3		☆	1	~		F	R
1.5 Identify and represent on a number line decimals, fractions, mixed numbers, and positive and negative integers.	2		☆	E)				
Standard Set 2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals:	***17			ß				
2.1 Add, subtract, multiply, and divide with decimals; add with negative integers; subtract positive integers from negative integers; and verify the reasonableness of the results. (No negative integers on Benchmark 2)	7		*	Ð	~	F		R
2.2 Demonstrate proficiency with division, including division with positive decimals and long division with multidigit divisors.	3		*	A statement of the s	\checkmark	F		R
2.3 Solve simple problems, including ones arising in 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.	5		*	ß	~			F
2.4 Understand the concept of multiplication and division of fractions.	1			£)				
2.5 Compute and perform simple multiplication and division of fractions and apply these procedures to solving problems.	1			ß				
Algebra and Functions	17 / 26%							
Standard Set 1.0 Students use variables in simple expressions, compute the value of the expression for specific values of the variable, and plot and interpret the results:	***17			S				
1.1 Use information taken from a graph or equation to answer questions about a problem situation.	1			S				
1.2 Use a letter to represent an unknown number; write and evaluate simple algebraic expressions in one variable by substitution.	6		*	S	\checkmark		F	R
1.3 Know and use the distributive property in equations and expressions with variables.	1			E)				

R = Re-evaluate Standard

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Mathematical Reasoning	Embedded			
Standard Set 1.0 Students make decisions about how to approach problems:		Solution		
1.1 Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, sequencing and prioritizing information, and observing patterns.	Embedded	E)		
1.2 Determine when and how to break a problem into simpler parts.	Embedded	E)		
Standard Set 2.0 Students use strategies, skills, and concepts in finding solutions:		EL)		
2.1 Use estimation to verify the reasonableness of calculated results.	Embedded			
2.2 Apply strategies and results from simpler problems to more complex problems.	Embedded			
2.3 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.	Embedded	E)		
2.4 Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work.	Embedded			
2.5 Indicate the relative advantages of exact and approximate solutions to problems and give answers to a specified degree of accuracy.	Embedded			
2.6 Make precise calculations and check the validity of the results from the context of the problem.	Embedded			
Standard Set 3.0 Students move beyond a particular problem by generalizing to other situations:				
3.1 Evaluate the reasonableness of the solution in the context of the original situation.	Embedded			
3.2 Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.	Embedded			
3.3 Develop generalizations of the results obtained and apply them in other circumstances.	Embedded			

** Fractional values indicate rotated standards (e.g., 1/2 = rotated every two years)

*** Indicates total number for standard

K Identifies the key standards according to Mathematics Framework for California Public Schools.

Identifies Algebra Readiness

First Trimester Test = Approximately 10 question Second Trimester Test = Approximately 30 questions Third Trimester Test = Approximately 54 questions