STAAR Standards Snapshot - Grade 4 Math

Rptg Ca	STAAR	STAAR Modified	Readiness Standards	Supporting Standards
1 Numbers, Operations, and Quantitative Reasoning	17	*13*	4.1.B use place value to read, write, compare, and order decimals involving tenths and hundredths, including money, using concrete objects and pictorial models 4.2.D relate decimals to fractions that name tenths and hundredths using concrete objects and pictorial models 4.4.D use multiplication to solve problems (no more than two digits times two digits without technology) 4.4.E use division to solve problems (no more than one-digit divisors and three-digit dividends without technology)	4.1.A use place value to read, write, compare, and order whole numbers through 999,999,999 4.2.A use concrete objects and pictorial models to generate equivalent fractions 4.2.B model fraction quantities greater than one using concrete objects and pictorial models 4.2.C compare and order fractions using concrete objects and pictorial models 4.3.A use addition and subtraction to solve problems involving whole numbers 4.3.B add and subtract decimals to the hundredths place using concrete objects and pictorial models 4.4.A model factors and products using arrays and area models 4.4.B represent multiplication and division situations in picture, word, and number form 4.4.C recall and apply multiplication facts through 12 x 12 4.5.A round whole numbers to the nearest ten, hundred, or thousand to approximate reasonable results in problem situations 4.5.B use strategies including rounding and compatible numbers to estimate solutions to multiplication and division problems
2 Patterns, Relationships, Algebraic Reasoning	6	*5*	4.7.A describe the relationship between two sets of related data such as ordered pairs in a table	4.6.A use patterns and relationships to develop strategies to remember basic multiplication and division facts (such as the patterns in related multiplication and division number sentences (fact families) such as 9 x 9 = 81 and 81 ÷ 9 = 9) 4.6.B use patterns to multiply by 10 and 100
3 Geometry and Spatial Reasoning	12	*10*	4.8.C use essential attributes to define two- and three-dimensional geometric figures 4.9.B use translations, reflections, and rotations to verify that two shapes are congruent 4.10.A locate and name points on a number line using whole numbers, fractions such as halves and fourths, and decimals such as tenths	4.8.A identify and describe right, acute, and obtuse angles 4.8.B identify and describe parallel and intersecting (including perpendicular) lines using concrete objects and pictorial models 4.9.C use reflections to verify that a shape has symmetry
4 Measurement	8	*6*	4.11.A estimate and use measurement tools to determine length (including perimeter), area, capacity and weight/mass using standard units SI (metric) and customary	4.11.B perform simple conversions between different units of length, between different units of capacity, and between different units of weight within the customary measurement system 4.11.C use concrete models of standard cubic units to measure volume 4.11.D estimate volume in cubic units 4.11.E explain the difference between weight and mass 4.12.A use a thermometer to measure temperature and changes in temperature 4.12.B use tools such as a clock with gears or a stopwatch to solve problems involving elapsed time
5 Probability and Statistics	5	*4*	4.13.B interpret bar graphs	4.13.A use concrete objects or pictures to make generalizations about determining all possible combinations of a given set of data or of objects in a problem situation
STAAR	**48 (3 Grid)**		**29-31 questions from Readiness Standards**	**17-19 questions from Supporting Standards**
STAAR Modified		***38 (1 Grid)***	***23-25 questions from Readiness Standards***	***13-15 questions from Supporting Standards***

Process Standards (Underlying Processes and Mathematical Tools)

STAAR	STAAR Modified		
≥ 75% of items will be dual coded ≈ 36 items will be dual coded	≥ 60% of items will be dual coded ≈ 23 items will be dual coded	4.14.A	identify the mathematics in everyday situations
		4.14.B	solve problems that incorporate understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness
		4.14.C	select or develop an appropriate problem-solving plan or strategy, including drawing a picture, looking for a pattern, systematic guessing and checking, acting it out, making a table, working a simpler problem, or working backwards to solve a problem
		4.14.D	use tools such as real objects, manipulatives, and technology to solve problems
		4.15.A	explain and record observations using objects, words, pictures, numbers, and technology
		4.15.B	relate informal language to mathematical language and symbols
		4.16.A	make generalizations from patterns or sets of examples and nonexamples
		4.16.B	justify why an answer is reasonable and explain the solution process

Source: Texas Education Agency STAAR Resources

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