



STAAR Grade 7 Mathematics Assessment Eligible TEKS

1. Probability and Numerical Representations (6 questions)		
S	7.2A	Extend previous knowledge of sets and subsets using a visual representation to describe relationships between sets of rational numbers.
S	7.6A	Represent sample spaces for simple and compound events using lists and tree diagrams.
S	7.6C	Make predictions and determine solutions using experimental data for simple and compound events.
S	7.6D	Make predictions and determine solutions using theoretical probability for simple and compound events.
S	7.6E	Find the probabilities of a simple event and its complement and describe the relationship between the two.
R	7.6H	Solve problems using qualitative and quantitative predictions and comparisons from simple experiments.
R	7.6I	Determine experimental and theoretical probabilities related to simple and compound events using data and sample spaces.

2. Computations and Algebraic Relationships (15 questions)		
S	7.3A	Add, subtract, multiply, and divide rational numbers fluently.
R	7.3B	Apply and extend previous understandings of operations to solve problems using addition, subtraction, multiplication, and division of rational numbers.
R	7.4A	Represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including $d = rt$.
S	7.4B	Calculate unit rates from rates in mathematical and real-world problems.
S	7.4C	Determine the constant of proportionality ($k = y/x$) within mathematical and real-world problems.
R	7.4D	Solve problems involving ratios, rates, and percents, including multi-step problems involving percent increase and percent decrease, and financial literacy problems.
R	7.7A	Represent linear relationships using verbal descriptions, tables, graphs, and equations that simplify to the form $y = mx + b$.
S	7.10A	Write one-variable, two-step equations and inequalities to represent constraints or conditions within problems.
S	7.10B	Represent solutions for one-variable, two-step equations and inequalities on number lines.
S	7.10C	Write a corresponding real-world problem given a one-variable, two-step equation or inequality.
R	7.11A	Model and solve one-variable, two-step equations and inequalities.
S	7.11B	Determine if the given value(s) make(s) one-variable, two-step equations and inequalities true.



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3. Geometry and Measurement (12 questions)		
S	7.4E	Convert between measurement systems, including the use of proportions and the use of unit rates.
S	7.5A	Generalize the critical attributes of similarity, including ratios within and between similar shapes.
S	7.5B	Describe π as the ratio of the circumference of a circle to its diameter.
R	7.5C	Solve mathematical and real-world problems involving similar shape and scale drawings.
R	7.9A	Solve problems involving the volume of rectangular prisms, triangular prisms, rectangular pyramids, and triangular pyramids.
R	7.9B	Determine the circumference and area of circles.
R	7.9C	Determine the area of composite figures containing combinations of rectangles, squares, parallelograms, trapezoids, triangles, semicircles, and quarter circles.
S	7.9D	Solve problems involving the lateral and total surface area of a rectangular prism, rectangular pyramid, triangular prism, and triangular pyramid by determining the area of the shape's net.
S	7.11C	Write and solve equations using geometry concepts, including the sum of the angles in a triangle, and angle relationships.

4. Data Analysis and Personal Financial Literacy (7 questions)		
R	7.6G	Solve problems using data represented in bar graphs, dot plots, and circle graphs, including part-to-whole and part-to-part comparisons and equivalents.
R	7.12A	Compare two groups of numeric data using comparative dot plots or box plots by comparing their shapes, centers, and spreads.
S	7.12B	Use data from a random sample to make inferences about a population.
S	7.12C	Compare two populations based on data in random samples from these populations, including informal comparative inferences about differences between the two populations.
S	7.13A	Calculate the sales tax for a given purchase and calculate income tax for earned wages.
S	7.13B	Identify the components of a personal budget, including income; planned savings for college, retirement, and emergencies; taxes; and fixed and variable expenses, and calculate what percentage each category comprises of the total budget.
S	7.13C	Create and organize a financial assets and liabilities record and construct a net worth statement.
S	7.13D	Use a family budget estimator to determine the minimum household budget and average hourly wage needed for a family to meet its basic needs in the student's city or another large city nearby.
S	7.13E	Calculate and compare simple interest and compound interest earnings.
S	7.13F	Analyze and compare monetary incentives, including sales, rebates, and coupons.

Blueprint Summary			
	Total	STAAR	
Readiness	13	60%-65%	24 – 26
Supporting	25	35%-40%	14 – 16
Total Number of Questions on Test: 36 Multiple Choice; 4 Griddable; 40 Total			

Not Eligible for STAAR	
7.6B	Select and use different simulations to represent simple and compound events with and without technology.
7.6F	Use data from a random sample to make inferences about a population.
7.8A	Model the relationship between the volume of a rectangular prism and a rectangular pyramid having both congruent bases and heights and connect that relationship to the formulas.
7.8B	Explain verbally and symbolically the relationship between the volume of a triangular prism and a triangular pyramid having both congruent bases and heights and connect that relationship to the formulas.
7.8C	Use models to determine the approximate formulas for the circumference and area of a circle and connect the models to the actual formulas.