

TSIA2 Math Content Strands

College Readiness Classification Content	# of Questions	% of Test
Quantitative Reasoning <ul style="list-style-type: none"> • Compare magnitudes of rational and irrational numbers • Solve problems with ratios, proportions, and percents • Solve proportional relationship problems in context (e.g., linear relationships in financial literacy and numeracy) • Identify, manipulate, and interpret linear equations, inequalities, and expressions 	6	30%
Algebraic Reasoning <ul style="list-style-type: none"> • Solve linear equations, inequalities, and systems of linear equations • Evaluate linear functions • Solve quadratic and exponential relationship problems in context (e.g., exponential decay/growth, compound interest, and depreciation) • Identify and manipulate quadratic, polynomial, exponential, rational, and radical equations and expressions • Solve equations and evaluate functions (e.g., quadratic, polynomial, exponential, rational, and radical) 	7	35%
Geometry & Spatial Reasoning <ul style="list-style-type: none"> • Convert units within systems of measurement • Find perimeter, area, surface area and volume using a variety of methods, including estimation • Use transformations to investigate congruence, similarity, and symmetry • Apply right triangle relationships and basic trigonometry • Make connections between geometry and algebraic equations 	3	15%
Probability & Statistics <ul style="list-style-type: none"> • Compute and interpret probability • Compute and describe measures of center and spread of data • Classify data and construct appropriate representations of data • Analyze, interpret, and draw conclusions from data 	4	20%

Additional Content added to Diagnostic Test	# of Questions	% of Test
Quantitative Reasoning <ul style="list-style-type: none"> Perform basic math operations with whole numbers and integers, decimals, and fractions Round numbers to a given decimal place* Compare numbers in a variety of forms, including decimals, fractions, and percents 	6	30%
Algebra	7	35%
Geometry & Measurement <ul style="list-style-type: none"> Identify common units of measurement Identify and define types of angles 	3	15%
Data Analysis, Statistics, & Probability <ul style="list-style-type: none"> Sort and count data Construct simple graphs and tables 	4	20%

Source

TSIA2 Mathematics Specifications V1.4 <https://reportcenter.higered.texas.gov/training-materials/tsia2-math-test-specifications-v1-4/>

Test Taking Strategies

- Key Features
 - Answer choices are carefully constructed (usually correspond to errors in thinking, not errors in arithmetic)
 - Answer choices, for the most part, are arranged in order (smallest to largest or vice versa)
 - You cannot return to previous questions once you submit your answer
- Test Day Strategies
 - Read the question carefully
 - Pay attention to units (you may have to convert)
 - Eliminate answer choices that cannot be correct
 - Use the answer choices to check your math