





Texas Success Initiative Assessment – Understanding Your Mathematics Score (from The College Board 2018 pdf file: tsai-interpreting-your-score-brochure)

TSIA Four Content Areas:

- 1) Elementary Algebra and Functions – measures students’ knowledge in linear equations, inequalities, and systems; algebraic expressions and equations; word problems and applications.
- 2) Intermediate Algebra and Functions – measures students’ knowledge in quadratic and other polynomial expressions, equations, and functions; expressions, equations, and functions involving powers, roots, and radicals; rational and exponential expressions, equations, and functions.
- 3) Geometry and Measurement – measures students’ knowledge in plane geometry; transformations and symmetry; linear, area and three-dimensional measurements.
- 4) Data Analysis, Statistics, and Probability – measures students’ knowledge in interpreting categorical and quantitative data, statistical measures, probabilistic reasoning.

Sample TSIA DE Mathematics Diagnostic Score Report:

Domain	Needs Improvement	Limited Proficiency	Proficient	Score
Elementary Algebra				15
The results suggest that you have the ability to perform operations with real numbers and algebraic expressions using correct order of operations; solve linear equations, inequalities, systems, and variation problems; graph linear functions; solve word problems.				
Intermediate Algebra				12
The results suggest that you have the ability to factor polynomial expressions by GCF, grouping, difference of squares, trinomials; solve quadratic equations by factoring and using quadratic formula; simplify square roots with numerical values; solve simple equations with radicals and fractions; apply unit conversion in word problems; formulate algebraic expressions and equations to solve word problems; apply rules of exponents.				
Measurement and Geometry				11
The results suggest that you have the ability to identify and analyze geometric shapes to calculate perimeter, area, and volume; analyze multistep geometric problems using factoring quadratics, use properties of transformations to solve problems, and apply the Pythagorean theorem; analyze and apply ratios and proportions to solve geometric problems such as similar figures; recognize and apply concepts of measurement conversions.				
Data Analysis, Statistics, and Probability				13
The results suggest that you have the ability to calculate and interpret the mean, median, mode, and range for a set of real number values; calculate the probability of events; make predictions using probabilities and statistics; analyze charts and graphs; apply counting principles; calculate percentages.				

