

Pre-Algebra Diagnostic Competencies

Students who score between 62 and 106 in the BAAD will take this diagnostic.

Category	Competency	Competency Description	Items
Operations with Decimals	Calculations with Money	Calculate sales tax and commission.	2
Basic Math Skills	Order of Operations	Use order of operations to simplify whole number expressions.	2
Operations with Fractions	Mixed Numbers	Convert between improper fractions and mixed numbers.	2
Operations with Fractions	Least Common Denominator	Find the least common denominator (LCD) of two or more fractions, and compare fractions with unlike denominators	2
Operations with Fractions	Fraction Application	Perform operations with fractions (with applications)	2
Operations with Decimals	Decimal Application	Perform operations with decimals (with applications)	2
Basic Math Skills	Number Conversions	Convert among fractions, decimals, and percents.	2
Operations with Percents	Percent Calculations	Calculate all values in the basic percent problem (percent, amount /part, and base).	2
Data Interpretation	Reading Bar Graphs	Read and interpret information from a bar graph.	1
Basic Algebra	Integer Operations	Perform operations with integers (with applications)	2
Basic Algebra	Measurement Conversion (Standard)	Convert within the U.S. system.	2
Basic Algebra	Measurement Conversion (Metric)	Convert within the metric system.	2

Expressions	Constructing Expressions	Define variables and write an expression to represent a quantity in a problem	2
Expressions	Simplifying Algebraic Expressions	Simplify algebraic expressions involving one variable using the order of operations.	2
Basic Algebra	Solving Algebraic Expressions	Evaluate a formula or algebraic expression for given values of the variables.	2
Basic Algebra	Equations with Percents	Solve one-step equations using percents.	2
Basic Algebra	Proportions	Solve problems using proportions.	2
Linear Equations	Solving Linear Equations	Solve linear equations in one variable.	2
		Test Length	35

Notes:

AL students who score below 80 on the PADI will be placed in MAT 050. AL Students who score above 80 may be placed in either MAT 050 or MAT 055 with the MAT 025 lab.

QL students who score below 80 on the PADI will be placed in MAT 050. QL students who score 80 or above will be placed in either MAT 050 or MAT 092 and the TNA math course (120, 135, or 155/56) they need.

CTE students who score below 59 will be placed in MAT 050. Students who score 60 or above but less than 80 will be placed either in MAT 050 or the CTE math course they need (103, 107, 108, 109, or 112) plus MAT 091. CTE students who score 80 or above will be placed into the CTE math course (103, 107, 108, 109, or 112) that they need.