

Maplesoft™-MAA® Placement Test Suite

Partnering with the MAA to revolutionize placement testing

The Placement Test Suite consists of 40 placement tests. These tests cover 6 subject areas and there are 4 parallel forms of each test. There are also 16 calculator-based versions for 4 of the subject areas. Schools have the ability to choose not only which subject area they want to cover, but also which version of the test they want to deliver.

Test Overview

Each of the original 24 tests consists of 25 to 32 multiple-choice questions that can be administered in 45 minutes or less. The following table specifies the number of questions along with the recommended time limit from the MAA.

Placement Test	# of Questions	Recommended Time Limit
Arithmetic and Skills	32	40 minutes
Basic Algebra	25	30 minutes
Algebra	32	45 minutes
Advanced Algebra	25	30 minutes
Trigonometry and Elementary Functions	30	45 minutes
Calculus Readiness	25	30 minutes

Test Topics

Each test in the Placement Test Suite contains a variety of questions. The table below outlines the topics covered in each test, along with the number of test questions in that particular topic. Note that some questions are counted more than once so the total number of questions may be more than the number of questions on the test.

Placement Test	Topic	# of Test Questions	
Arithmetic and Skills	Integers and Fractions	5	
	Decimals	4	
	Order of Operations	2	
	Linear Equations	1	
	Formula Evaluation	3	
	Exponents and Radicals	3	
	Geometry	5	
	Order Relations	2	
	Word Problems	12	
	Proportion	1	
	Probability	1	
	Percent	3	
	Averaging	1	
	Graph and Table Interpretation	4	
	Approximation and Estimation	6	
	Basic Algebra	Arithmetic of Rational Numbers	2
		Order of Operations	2
Operations with Algebraic Expressions		8	
Algebraic Fractions		3	
Exponents and Radicals		4	
Linear Equations and Inequalities		7	
Systems of Linear Equations		1	
Fractional and Quadratic Equations		2	
Word Problems		4	
Graphing		3	
Algebra	Arithmetic of Rational Numbers	3	
	Operations with Algebraic Expressions	8	
	Linear Equations and Inequalities	8	
	Factoring and Algebraic Fractions	7	
	Exponents and Radicals	6	
	Graphing	3	
	Fractional and Quadratic Equations and Quadratic Inequalities	4	
	Logarithms	2	
	Functions	2	
	Complex Numbers	1	
	Absolute Value	2	
	Systems of Equations	2	

Placement Test	Topic	# of Test Questions	
Advanced Algebra	Arithmetic of Rational Numbers	1	
	Operations with Algebraic Expressions	4	
	Linear Equations and Inequalities	5	
	Factoring and Algebraic Fractions	4	
	Exponents and Radicals	5	
	Graphing	4	
	Fractional and Quadratic Equations and Quadratic Inequalities	4	
	Logarithms	3	
	Functions	2	
	Complex Numbers	1	
	Absolute Value	1	
	Systems of Equations	1	
	Trigonometry and Elementary Functions	Definition of Trigonometric Functions	2
		Right Triangles	2
		Cofunctions	1
		Evaluation of Special Angles	6
		Related Angles	1
Radian Measure		6	
Graphing		1	
Identities		3	
Laws of Sines and Cosines		1	
Trigonometric Equations		2	
Inverse Trigonometric Functions		1	
Distance		1	
Straight Line		3	
Conics		2	
Functions: Notation, Composition		5	
Graphs and Their Properties		6	
Logarithmic and Exponential Functions		4	
Higher Degree Polynomials	1		
Absolute Value	1		
Inequalities	1		
Calculus Readiness	Geometry and Measurement	5	
	Graphs of Functions	8	
	Word Problems, Modeling	5	
	Concept Formulation	3	
	Numerical Awareness	2	
	Exponential Functions	2	
	Exponents and Logarithms	2	
	Equations and Factoring	2	
	Functional Notation	2	
	Inequalities, Absolute Value	2	
	Trigonometry	5	

Calculator-based Tests

There are 16 calculator-based tests that cover 4 subject areas with 4 parallel forms of each test.

Test Overview

Each of the 16 calculator-based tests consists of 25 to 32 multiple-choice questions that can be administered in 45 minutes or less. The following table specifies the number of questions along with the recommended time limit from the MAA.

Placement Test	# of Questions	Recommended Time Limit
Calculator-Based Arithmetic and Skills	32	40 minutes
Calculator-Based Basic Algebra	25	35 minutes
Calculator-Based Algebra	32	45 minutes
Calculator-Based Calculus Readiness	25	40 minutes

Test Topics

Each calculator-based test in the Placement Test Suite contains a variety of questions. The table below outlines the topics covered in each test, along with the number of test questions in that particular topic. Note that some questions are counted more than once so the total number of questions may be more than the number of questions on the test.

Placement Test	Topic	# of Test Questions
Calculator-Based Arithmetic and Skills	Integers	2
	Fractions	4
	Decimals	3
	Percents	2
	Exponents	5
	Radicals	3
	Proportions	1
	Order Relations on Numbers	2
	Word Problems	8
	Geometry	3
	Linear Equations	2
	Formula Evaluation	2
	Approximation	9
	Graph and Table Interpretation	4
	Estimation	1
	Calculator Active	18
	Scientific Notation	1
	Order of Operations	2
	Calculator-Based Basic Algebra	Arithmetic of Rational Numbers
Expand, Factor and Simplify		3
Algebraic Fractions		5
Exponents and Radicals Including Equations		5
Linear Equations and Inequalities		8
Quadratic Equations		2
Graphing		3
Absolute Value		2
Systems of Equations		2
Graphing		3
Problem Solving		4
Geometry		3
Estimation and Approximation		7
Calculator Active		8

Placement Test	Topic	# of Test Questions
Calculator-Based Algebra	Arithmetic of Rational Numbers	2
	Operations with Algebraic Expressions	10
	Factoring and Algebraic Fractions	7
	Exponents and Radicals	8
	Graphing	5
	Linear Equations and Inequalities	8
	Quadratic Equations and Inequalities	2
	Functions	3
	Logarithms	2
	Absolute Value	2
	Systems of Equations	2
	Problem Solving	4
	Estimation and Approximation	5
Calculator Active	8	
Calculator-Based Calculus Readiness	Geometry and Measurement	7
	Graphs of Functions	8
	Word Problems, Modeling	5
	Concept Formulation	3
	Numerical Awareness	3
	Exponential Functions	2
	Exponents and Logarithms	3
	Equations and Factoring	3
	Functional Notation	2
	Inequalities, Absolute Value	2
Trigonometry	5	
Calculator Active	9	



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