



Next-Generation MCAS Test Information for Grade 10 Mathematics

This document describes the Grade 10 MCAS Math test designs, question types, and other information related to the mathematics tests.

Standards Assessed

The Next-Generation MCAS test for Grade 10 Mathematics assesses the standards that overlap between the Model Algebra I and Model Geometry courses and the Model Mathematics I and Model Mathematics II courses in the [2017 Massachusetts Mathematics Curriculum Framework](#). For example, the test does not assess standards MII.N.CN.A.1, MII.N.CN.A.2 or MII.N.CN.C.7 because they are not included in either the Model Algebra I or Model Geometry courses. Standards coded with a (+) symbol are not assessed on the MCAS.

Number of Sessions and Calculator Use

The Grade 10 Math test has two sessions.

- In Session 1, no calculators are allowed.
- In Session 2, calculators are allowed

Question Types

The following table contains information about the question types on the tests.

Question Type	Total Points
Multiple Choice <i>Students select one correct answer from among several answer options.</i>	1
Multiple Select <i>Students select more than one correct answer from among several answer options.</i>	1
Technology Enhanced <i>Students taking the computer-based tests answer questions using technology such as drag-and-drop and hot spot.</i>	1 or 2
Short Answer/Fill-in-the-Blank <i>Students construct a short written response, typically only a word or a number.</i>	1
Constructed Response <i>Students write a response to a multi-part item that includes calculations and explanations to a problem or set of problems.</i>	4

Test Design

The test includes both common and matrix questions. Common questions count toward a student's score, while matrix questions consist of both field-test and equating questions and do not count toward a student's score.

Common Questions

Students will complete a range of question types as described above. Information about the number of questions by points is in the table below.

Number of 1- Point Questions	Number of 2-point Questions	Number of Constructed Response Questions	Total Points on Test
32	6	4	60

The percentages and number of points for each reporting category are in the table below.

Reporting Category	Percentage (+/-5%)	Total Number of Points
Number & Quantity	15%	9
Algebra & Functions	35%	21
Geometry	35%	21
Statistics & Probability	15%	9

Matrix Questions

In addition to common questions, students will answer matrix (field test and equating) questions.

Students will answer ten additional 1- or 2-point questions and two additional constructed-response questions.