Keystone Exams Test Definition

Mathematics

Designs for

Algebra I

PENNSYLVANIA
KEYSTONE EXAMS
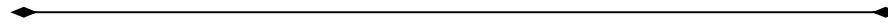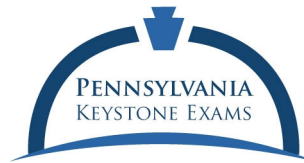
ALGEBRA I

The Algebra I Keystone Exams will consist of two modules as outlined below.
Module 1—Operations and Linear Equations & Inequalities
Module 2—Linear Functions and Data Organization

Algebra I Module Design

Algebra I	Module 1 % of points	Module 2 % of points
	50% 18 Eligible Content	50% 15 Eligible Content

The Algebra I Keystone Exams will measure the Algebra I Assessment Anchors as defined by the Eligible Content and will be aligned to the Concepts and Competencies.

Module 1—Operations and Linear Equations & Inequalities		Module 2—Linear Functions and Data Organization	
Core MC items	18 points	Core MC items	18 points
3 core 4 pt.-CR items	12 points	3 core 4 pt.-CR items	12 points
Total	30 points	Total	30 points

There will be a total of 60 points (Module 1 and Module 2 combined) with approximately 60% MC items and 40% CR items.

The operational plan is provided in the chart below.

Algebra I Module Plan (no. of items)

Algebra I	Module 1		Module 2		Algebra I Total		Estimated Time (Module 1 and Module 2)		
	50%		50%		100%		Core Only	Field Test Only	Core & Field Test
	MC Items	CR Items	MC Items	CR Items	MC Items	CR Items			
Core	18	3	18	3	36	6			
FT	5	1	5	1	10	2	114 minutes	35 minutes	149 minutes
Core Points	60%	40%	60%	40%	60%	40%			
				Total	46	8			

Algebra I Test Book and Answer Book Section Layout

Algebra I Section Layout Plan

Algebra I	Module	Number of MC	Estimated MC Item Breakdown	Number of CR	Estimated CR Item Breakdown	Testing Time	Administration Time
	1	23	18—Common (Core) Items 5—Embedded Field Test Items	4	3—Common (Core) Items 1—Embedded Field Test Items	75	85
	2	23	18—Common (Core) Items 5—Embedded Field Test Items	4	3—Common (Core) Items 1—Embedded Field Test Items	75	85