

—PCS PSSA Test Design— 2025



PSSA Mathematics Test Design

The PSSA Mathematics test plan shown in the following table is organized by grade and broken down between multiple-choice (MC), technology enhanced (TE), and open-ended (OE) items. Core items are also distinguished from items that serve the role of psychometric use and field test (FT). The following tables summarize the Mathematics test design.

Standard Operational Mathematics High-Level Test Plan per Form

	Multiple Choice (MC) & Technology Enhanced (TE)			Open-Ended (OE)			Total Core	Total
Grade	Core	Psychometric Use	Embedded Field Test	Core	Psychometric Use	Embedded Field Test	Items	Core Points
3	40	2	6	3	0	1	40 MC/TE 3 OE	52
4	40	2	6	3	0	1	40 MC/TE 3 OE	52
5	40	2	6	3	0	1	40 MC/TE 3 OE	52
6	40	2	6	3	0	1	40 MC/TE 3 OE	52
7	40	2	6	3	0	1	40 MC/TE 3 OE	52
8	40	2	6	3	0	1	40 MC/TE 3 OE	52





Mathematics PSSA Test Content Blueprints

The content blueprints for the PCS-based Mathematics assessment are shown in the following tables. The blueprint is organized around four thematic Reporting Clusters (Numbers and Operations, Algebraic Concepts, Geometry, and Data Analysis and Probability) based on the expressed emphasis contained within the PCS. Each cluster is broken down into Reporting Categories that are associated with specific grades or grade-spans. The corresponding Reporting Categories are as follows (grade associations are shown in parentheses):

- A = Numbers and Operations
 - A-T = Numbers and Operations in Base Ten (Grades 3–5)
 - A-F = Numbers and Operations Fractions (Grades 3–5)
 - A-N = The Number System (Grades 6–8)
 - A-R = Ratios and Proportional Relationships (Grades 6, 7)
- B = Algebraic Concepts
 - B-O = Operations and Algebraic Thinking (Grades 3–5)
 - B-E = Expressions and Equations (Grades 6–8)
 - B-F = Functions (Grade 8)
- C = Geometry
 - C-G = Geometry (Grades 3–8)
- D = Data Analysis and Probability
 - D-M = Measurement and Data (Grades 3–5)
 - D-S = Statistics and Probability (Grades 6–8)



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The PSSA Mathematics blueprints are provided in the following two tables.

Reporting	Grade			Reporting	Grade		Reporting	Grade
Category	3	4	5	Category	6	7	Category	8
A-T	14%–17%	18%–22%	24%–28%	A-N	18%–22%	14%–17%	A-N	14%–17%
A-F	14%–17%	20%–25%	26%–30%	A-R	17%–21%	24%–28%	B-E	30%–35%
B-O	26%–32%	24%–28%	14%–17%	B-E	26%–30%	24%–28%	B-F	20%–25%
C-G	14%–17%	14%–17%	14%–17%	C-G	14%–17%	18%–22%	C-G	17%–21%
D-M	26%–32%	17%–21%	17%–21%	D-S	18%–22%	14%–17%	D-S	14%–17%
Total	100%	100%	100%	Total	100%	100%	Total	100%

PCS-based PSSA Mathematics Blueprint: Percent of the Core by Reporting Category by Grade

PCS-based PSSA Mathematics Blueprint: Points by Reporting Category by Grade

Reporting	Grade			Reporting	Grade		Reporting	Grade
Category	3	4	5	Category	6	7	Category	8
A-T	7–9 pts	9–11 pts	12–15 pts	A-N	9–11 pts	7–9 pts	A-N	7–9 pts
A-F	7–9 pts	10–13 pts	14–16 pts	A-R	9–11 pts	12–15 pts	B-E	16–18 pts
B-O	14–17 pts	12–15 pts	7–9 pts	B-E	14–16 pts	12–15 pts	B-F	10–13 pts
C-G	7–9 pts	7–9 pts	7–9 pts	C-G	7–9 pts	9–11 pts	C-G	9–11 pts
D-M	14–17 pts	9–11 pts	9–11 pts	D-S	9–11 pts	7–9 pts	D-S	7–9 pts
Total Core	52 pts	52 pts	52 pts	Total	52 pts	52 pts	Total	52 pts



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Mathematics Test Development Design

At all grades, the PCS-Mathematics core can be described as:

40 core MC/TE items		40 points
3 core 4 pt OE items		12 points
	Total	52 points

As shown in the operational layout table below, the PSSA Mathematics test has two (2) sections starting. Due to the role of calculators on the assessment, the design for grade 3 varies from grades 4 though 8. Due to demands of the standards, calculators are not allowed on the grade 3 test. At grades 4 through 8, only a portion of the test is considered to be "non-calc".

Mathematics Operational Section Layout Plan for Grades 3 through 8

Section	Content Emphasis	Number of MC/TE	Number of OE	Estimated Section Testing Time (in minutes)	
1	Mathematics	24	2	78	
2	Mathematics	24	2	78	