



Benchmark Modules: Mathematics Grade 6

Test Name	What This Test Measures	Form Name	Number of Items
Benchmark Module: Math Grade 6 – Expressions & Equations	This test measures the student's ability to apply and extend previous understandings of arithmetic to algebraic expressions, reason with and solve one-variable equations and inequalities, and represent and analyze quantitative relationships between dependent and independent variables.	A	11
		B	12
		C	11
Benchmark Module: Math Grade 6 – Geometry/Statistics & Probability	This test measures the student's ability to solve real-world and mathematical problems involving area, surface area, and volume; develop an understanding of statistical variability; and summarize and describe distributions.	A	12
		B	12
Benchmark Module: Math Grade 6 – Ratios & Proportional Relationships	This test measures the student's ability to understand ratio concepts and to use ratio reasoning to solve problems.	A	12
		B	11
		C	12
Benchmark Module: Math Grade 6 – The Number System	This test measures the student's ability to apply and extend previous understandings of multiplication and division to divide fractions by fractions, compute fluently with multi-digit numbers and find common factors and multiples, and apply and extend previous understandings of numbers to the system of rational numbers.	A	13
		B	12

The table is designed to provide information about the content of each benchmark modular assessment **by grade and subject**. In the above table, you will find the name of the benchmark module, a brief description of the skills the module assesses, the names of each test form (e.g., A, B, C, etc.), and the number of test items on each form.



Benchmark Modules: Mathematics Grade 7

Test Name	What This Test Measures	Form Name	Number of Items
Benchmark Module: Math Grade 7 – Expressions and Equations	This test measures the student’s ability to use properties of operations to generate equivalent expressions and to solve real-life and mathematical problems using numerical and algebraic expressions and equations.	A	8
		B	8
Benchmark Module: Math Grade 7 – Geometry	This test measures the student’s ability to draw, construct, and describe geometrical figures and describe the relationships between them and to solve real-life and mathematical problems involving angle measure, area, surface area, and volume.	A	8
		B	8
		C	8
Benchmark Module: Math Grade 7 – Ratios and Proportions	This test measures the student’s ability to analyze proportional relationships and use them to solve real-world and mathematical problems.	A	8
		B	9
		C	9
Benchmark Module: Math Grade 7 – Statistics and Probability	This test measures the student’s ability to use random sampling to draw inferences about a population; draw informal comparative inferences about two populations; and investigate chance processes and develop, use, and evaluate probability models.	A	12
		B	13
Benchmark Module: Math Grade 7 – Number System	This test measures the student’s ability to apply and extend previous understandings of operations with fractions.	A	8
		B	8
		C	9

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Benchmark Modules: Mathematics Grade 8

Test Name	What This Test Measures	Form Name	Number of Items
Benchmark Module: Math Grade 8 – Expressions and Equations	This test measures the student’s ability to work with radicals and integer exponents; understand the connections between proportional relationships, lines, and linear equations; and analyze and solve linear equations and pairs of simultaneous linear equations.	A	10
		B	11
Benchmark Module: Math Grade 8 – Functions	This test measures the student’s ability to define, evaluate, and compare functions and to use functions to model relationships between quantities.	A	12
		B	13
Benchmark Module: Math Grade 8 – Geometry/The Number System	This test measures the student’s ability to understand congruence and similarity using physical models, transparencies, or geometry software; understand and apply the Pythagorean Theorem; solve real-world and mathematical problems involving volume of cylinders, cones, and spheres; and know that there are numbers that are not rational, and approximate them by rational numbers.	A	12
		B	12
		C	12
		D	12
Benchmark Module: Math Grade 8 – Statistics and Probability	This test measures the student’s ability to investigate patterns of association in bivariate data.	A	9
		B	9

The table is designed to provide information about the content of each benchmark modular assessment **by grade and subject**. In the above table, you will find the name of the benchmark module, a brief description of the skills the module assesses, the names of each test form (e.g., A, B, C, etc.), and the number of test items on each form.

2018+ WY-TOPP Interim Assessment Mathematics Blueprint Secondary Levels – Grades 6-10



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Grade 6 Math Interim Blueprint	# of Items by Domain	% of Items by Domain
Ratios and Proportional Relationships	5-7	16-22%
The Number System	6-8	19-25%
Expressions and Equations	7-11	22-34%
Non-Calculator Total	23	72%
Geometry	4-6	13-19%
Statistics and Probability	4-5	13-16%
Calculator Total	9	28%

Note: Grade 6 is the only grade to have a non-calculator and a calculator section on the WY-TOPP Interim and the Summative Assessments. Items in the non-calculator section are those that are assessing the student's ability to fluently compute and/or apply and extend previous understandings of arithmetic in order to solve algebraic expressions. A DESMOS Calculator will be available on the Grades 6-10 WY-TOPP Assessments. Students will have a calculator available for all items in Grades 7-10.

Grade 7 Math Interim Blueprint	# of Items by Domain	% of Items by Domain
Ratios and Proportional Relationships	6-8	18-24%
The Number System	6-8	18-24%
Expressions and Equations	8-9	24-26%
Geometry	6-8	18-24%
Statistics and Probability	4-6	12-18%
Total	34	100%

Grade 8 Math Interim Blueprint	# of Items by Domain	% of Items by Domain
Expressions and Equations	8-10	24-29%
Functions	8-12	24-35%
Geometry	8-12	24-35%
Statistics and Probability	6-7	18-21%
Total	34	100%

Grade 9 Math Interim Blueprint	# of Items by Domain	% of Items by Domain
Numbers and Quantities	4-6	16-24%
Algebra	8-10	32-40%
Functions	8-10	32-40%
Geometry	2-4	8-16%
Total	25	100%

Grade 10 Math Interim Blueprint	# of Items by Domain	% of Items by Domain
Congruence	8-10	32-40%
Similarity, Right Triangles, Trigonometry, & Circles	4-6	16-24%
Expressing Geometric Properties with Equations	5-7	20-28%
Geometric Measurement and Dimension/ Modeling	5-7	20-28%
Total	25	100%



KEY

Domain - Reporting Category
Benchmarks & Standard

DOK	Min. - Max.	%
1	7-11	15%-25%
2	23-29	50%-65%
3	7-11	15%-25%

DOK = Depth of Knowledge

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6th Grade Mathematics 2018+ WY-TOPP Summative Assessment Blueprint		Max # of Items Per Standard
Ratios and Proportional Relationships [7-9 Items; 16-20%]		
6.RP.1-3	A. Understand ratio concepts and use ratio reasoning to solve problems.	9
The Number System [8-10 Items; 18-22%]		
6.NS.1	B. Apply and extend previous understandings of multiplication and division to divide fractions by fractions.	3
6.NS.2-4	C. Compute fluently with multi-digit numbers and find common factors.	6
6.NS.8	D. Apply and extend previous understandings of numbers to the system of rational numbers.	3
Expressions and Equations [11-14 Items; 24-31%]		
6.EE.1-4	E. Apply and extend previous understandings of arithmetic to algebraic expressions.	7
6.EE.5-8	F. Reason about and solve one-variable equations and inequalities.	8
6.EE.9	G. Represent and analyze quantitative relationships between dependent and independent variables.	2
Geometry [7-9 Items; 16-20%]		
6.G.1-4	H. Solve real-world and mathematical problems involving area, surface area, and volume.	9
Statistics and Probability [7-8 Items; 16-18%]		
6.SP.1-3	I. Develop understanding of statistical variability.	5
6.SP.4-5	J. Summarize and describe distributions.	4
Total Items		45



DOK	Min. - Max.	%
1	7-11	15%-25%
2	23-29	50%-65%
3	7-11	15%-25%

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Domain - Reporting Category
Benchmarks & Standard

7th Grade Mathematics 2018+ WY-TOPP Summative Assessment Blueprint		Max # of Items Per Standard
Ratios and Proportional Relationships [8-10 Items; 18-22%]		
7.RP.1-3	A. Analyze proportional relationships and use them to solve real-world and mathematical problems.	10
The Number System [7-8 Items; 16-18%]		
7.NS.1-3	B. Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	8
Expressions and Equations [9-11 Items; 20-24%]		
7.EE.1-2	C. Use properties of operations to generate equivalent expressions.	8
7.EE.3-4	D. Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	8
Geometry [8-10 Items; 18-22%]		
7.G.1-3	E. Draw, construct, and describe geometrical figures and describe the relationships between them.	7
7.G.4-6	F. Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.	9
Statistics and Probability [7-9 Items; 16-20%]		
7.SP.1-2	G. Use random sampling to draw inferences about a population.	6
7.SP.3-4	H. Draw informal comparative inferences about two populations.	6
Total Items		45



DOK	Min. - Max.	%
1	7-11	15%-25%
2	23-29	50%-65%
3	7-11	15%-25%

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Domain - Reporting Category
Benchmarks & Standard

8th Grade Mathematics 2018+ WY-TOPP Summative Assessment Blueprint		Max # of Items Per Standard
Expressions and Equations [12-15 Items; 27-33%]		
8.EE.5-6	C. Understand the connections between proportional relationships, lines, and linear equations.	10
8.EE.7-8	D. Analyze and solve linear equations and pairs of simultaneous linear equations.	10
Functions [10-12 Items; 22-27%]		
8.F.1-3	E. Define, evaluate, and compare functions.	9
8.F.4-5	F. Use functions to model relationships between quantities.	6
Geometry [10-13 Items; 22-29%]		
8.G.1-5	G. Understand congruence and similarity using physical models, transparencies, or geometry software.	8
8.G.6-8	H. Understand and apply the Pythagorean Theorem.	6
8.G.9	I. Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.	2
Statistics and Probability [7-8 Items; 16-18%]		
8.SP.1-4	J. Investigate patterns of association in bivariate data.	8
Total Items		45