

# New Mexico Measures of Student Success and Achievement (NM-MSSA) – Mathematics



## Test Blueprint

### Guidance for NM-MSSA Math



- All eligible students in grades 3-8 will take NM-MSSA Math.
- All assessment are **not timed**. Shown time is **recommended**. Students with a legal plan (e.g., IEP, 504) may have time extended beyond the recommended time.
- All test items are aligned to and assess the [New Mexico Common Core State Standards](#).
- New, custom-developed **field test items** will be embedded within the operational test form at each grade level.
- The [Teaching, Learning, and Assessment \(TLA\) New Mexico Instructional Scope](#) should be used as a resource to plan instruction and plan classroom formative assessment.
- For additional details and samples of item types, view the [Test Specifications document](#).

### Item Type Information

- **MS-1:** worth 1 point; machine-scored multiple choice or multi-select interactions.
- **CR-3:** worth 3 points; single or multi-part prompt; human-scored; two trait rubric—concepts and procedures (0-2 points) and mathematical practices (0-1 points)
- **CR-6:** worth 6 points; single or multi-part prompt; human-scored; two trait rubric—concepts and procedures (0-4 points) and mathematical practices (0-2 points)
- **Browser-Based (online) Practice tests** for NM-MSSA can be accessed at: <https://nmpracticetest.cognia.org/student/login>.
- Additional **downloadable (paper-based) practice tests and teacher resources** are available at the [Help and Support Site](#).

### Calculator Usage and Recommended Times

	Session	Calculator	Time (minutes)
Grades 3-6	1	No Calculator	60
	2	Basic Calculator	60
Grades 7, 8	1	No Calculator	60
	2	Scientific Calculator	60

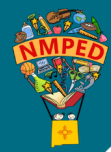
### Item Types

Grade	Discrete Items			Number of Operational Items	Total Operational Points
	MS-1	CR-3	CR-6		
3-4	33	2	2	37	51
5	33	2	2	37	51
6-7	36	2	2	40	54
8	37	2	2	41	55

### Mathematics Grades 3, 4, 5

		Grade 3		Grade 4		Grade 5	
		# of Core Pts	# of Core Pts	# of Core Pts	# of Core Pts	# of Core Pts	# of Core Pts
Concepts & Procedures	Operations & Algebraic Thinking	12-18	27-40%	10-16	22-36%	7-11	16-24%
	Number & Operations in Base Ten	5-7	11-16%	8-10	17-22%	7-13	16-29%
	Number & Operations—Fractions	8-10	17-22%	10-16	22-36%	11-15	24-33%
	Measurement & Data	11-15	24-33%	6-10	13-22%	10-14	22-31%
	Geometry	3-5	7-11%	3-5	7-11%	4-8	9-18%
Mathematical Practices	<i>Subtotal</i>	<b>45</b>	<b>100%</b>	<b>45</b>	<b>100%</b>	<b>45</b>	<b>100%</b>
	Problem Solving*	≥ 8	≥ 16%	≥ 8	≥ 16%	≥ 8	≥ 16%
	Reasoning & Argument*						
	Modeling*	≥ 8	≥ 17%	≥ 8	≥ 18%	≥ 8	≥ 17%
	Patterns & Structure*						
	<i>Total</i>	<b>51**</b>		<b>51**</b>		<b>51**</b>	

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## Mathematics Grades 6, 7

		Grade 6		Grade 7	
		# of Core Pts	# of Core Pts	# of Core Pts	# of Core Pts
Concepts & Procedures	Ratios & Proportional Relationships	8-12	17-25%	8-12	17-25%
	The Number System	8-12	17-25%	6	13%
	Expressions & Equations	8-12	17-25%	8-16	17-33%
	Geometry	6-10	13-21%	6-10	13-21%
	Statistics & Probability	6-10	13-21%	10-12	21-25%
<i>Subtotal</i>		<b>48</b>	<b>100%</b>	<b>48</b>	<b>100%</b>
Mathematical Practices	Problem Solving*	≥ 8	≥ 15%	≥ 8	≥ 15%
	Reasoning & Argument*				
	Modeling*	≥ 8	≥ 15%	≥ 8	≥ 15%
	Patterns & Structure*				
<i>Total</i>		<b>54**</b>		<b>54**</b>	

## Mathematics Grade 8

		Grade 8	
		# of Core Pts	# of Core Pts
Concepts & Procedures	Functions	10-16	20-33%
	The Number System	4	8%
	Expressions & Equations	11-17	22-35%
	Geometry	10-16	20-33%
	Statistics & Probability	10-12	20-24%
<i>Subtotal</i>		<b>49</b>	<b>100%</b>
Mathematical Practices	Problem Solving*	≥ 8	≥ 15%
	Reasoning & Argument*		
	Modeling*	≥ 8	≥ 15%
	Patterns & Structure*		
<i>Total</i>		<b>55**</b>	

\*All or most of the items are dually coded to Concepts and Procedures and Mathematical Practices standards.

\*\*Constructed response items are scored for both Concepts and Procedures and Mathematical Practices. A total of six points from the Mathematical Practices rubric contribute to a student's overall score.

## Depth of Knowledge (DOK)

Grade	DOK1	DOK2	DOK3
3-6	5-25%	50-80%	5-30%
7-8	0-30%	50-80%	5-30%