

New York State Testing Program—Mathematics

Percent Emphasis by Key Idea and Cognitive Level

Key Idea	Range			Cognitive Process	Range		
	Elementary School	Middle School	High School		Elementary School	Middle School	High School
Mathematical Reasoning	10–15%	10–15%	5–10%	Procedural Knowledge	40–50%	30–40%	30–40%
Number and Numeration	15–25%	10–15%	5–10%	Conceptual Understanding	25–40%	25–40%	25–40%
Operations	20–25%	15–20%	15–20%	Problem Solving	15–30%	25–35%	25–35%
Modeling/Multiple Representation	5–10%	15–20%	15–25%				
Measurement	15–20%	10–20%	15–25%				
Uncertainty	5–10%	5–10%	5–10%				
Patterns/Functions	10–15%	20–25%	15–25%				

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Grade 4 Test Design

	Number of Items	Number of Points	Time in Minutes	Calculator Usage
Session 1	30 multiple choice	30	40	Not allowed
Session 2	7 short response 2 extended response	14 6	50 (total)	Not allowed
Session 3	7 short response 2 extended response	14 6	50 (total)	Not allowed

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Grade 8 Test Design

	Number of Items	Number of Points	Time in Minutes	Calculator Usage
Session 1				
Part 1	27 multiple choice	27	35	Not allowed
Part 2	4 short response 2 extended response	8 6	35 (SR and ER)	Yes*
Session 2	8 short response 4 extended response	16 12	70 (total)	Yes*

*Minimum requirement: four-function calculator with a square root key; scientific calculator recommended