

As of 4/21/14

Target Sampling Mathematics Grade 6										
Claim	Content Category	Assessment Targets	DOK	Items		Total				
				САТ	РТ	ltems				
1. Concepts and Procedures	Priority Cluster	E. Apply and extend previous understandings of arithmetic to algebraic expressions.	1	6	0	14				
		F. Reason about and solve one-variable equations and inequalities.	1, 2							
		A. Understand ratio concepts and use ratio reasoning to solve problems.	1, 2	4 2 2						
		G. Represent and analyze quantitative relationships between dependent and independent variables.	2							
		<ul> <li>Apply and extend previous understandings of multiplication and division to divide fractions by fractions.</li> </ul>	1, 2							
		<ul> <li>Apply and extend previous understandings of numbers to the system of rational numbers.</li> </ul>	1, 2							
	Supporting Cluster	C. Compute fluently with multi-digit numbers and find common factors and multiples.	1, 2		0	5				
		H. Solve real-world and mathematical problems involving area, surface area, and volume.	1, 2	5						
		I. Develop understanding of statistical variability.	2							
		J. Summarize and describe distributions.	1, 2							
2. Problem Solving 4. Modeling and Data Analysis	Problem Solving (drawn across content domains)	A. Apply mathematics to solve well-posed problems arising in everyday life, society, and the workplace.	2, 3	1	1–2	3–4				
		<ul> <li>B. Select and use appropriate tools strategically.</li> <li>C. Interpret results in the context of a situation.</li> <li>D. Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flow charts, or formulas).</li> </ul>	1, 2, 3							
	Modeling and Data Analysis (drawn across content domains)	<ul><li>A. Apply mathematics to solve problems arising in everyday life, society, and the workplace.</li><li>D. Interpret results in the context of a situation.</li></ul>	2, 3	1		5–6				
		<ul> <li>B. Construct, autonomously, chains of reasoning to justify mathematical models used, interpretations made, and solutions proposed for a complex problem.</li> <li>E. Analyze the adequacy of and make improvements to an existing model or develop a mathematical model of a real phenomenon.</li> </ul>	2, 3, 4	1	2–3					
		<ul> <li>C. State logical assumptions being used.</li> <li>F. Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flow charts, or formulas).</li> </ul>	1, 2							
		G. Identify, analyze, and synthesize relevant external resources to pose or solve problems.	3, 4							

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– DOK: Depth of Knowledge, consistent with the Smarter Balanced Content Specifications.

-- The CAT algorithm will be configured to ensure the following:

For Claim 1, each student will receive at least 7 CAT items at DOK 2 or higher.

For combined Claims 2 and 4, each student will receive at least 2 CAT items at DOK 3 or higher.

For Claim 3, each student will receive at least 2 CAT items at DOK 3 or higher.



## Mathematics Summative Assessment Blueprint

As of 4/21/14

Target Sampling Mathematics Grade 6											
Claim	Content Category	Asse ssment Targets	рок	Items		Total					
				САТ	PT	ltems					
3. Communicating Reasoning	Communicating Reasoning (drawn across content domains)	<ul><li>A. Test propositions or conjectures with specific examples.</li><li>D. Use the technique of breaking an argument into cases.</li></ul>	2, 3	2–3							
		<ul> <li>B. Construct, autonomously, chains of reasoning that will justify or refute propositions or conjectures.</li> <li>E. Distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in the argument—explain what it is.</li> </ul>	2, 3, 4	1–2	2	8					
		<ul> <li>C. State logical assumptions being used.</li> <li>F. Base arguments on concrete referents such as objects, drawings, diagrams, and actions.</li> <li>G. At later grades, determine conditions under which an argument does and does not apply. (For example, area increases with perimeter for squares, but not for all plane figures.)</li> </ul>	2, 3	2–3							

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