Claim	Content Category	Assessment Targets	DOK	Items CAT	PT	Total Items
1. Concepts and Procedures	Priority Cluster	E. Use equivalent fractions as a strategy to add and subtract fractions.	1, 2	6	0	15
		I. Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.	1, 2			
		F. Apply and extend previous understandings of multiplication and division to multiply and divide fractions.	1, 2	5		
		D. Perform operations with multi-digit whole numbers and with decimals to hundredths.	1, 2	4		
		C. Understand the place value system.	1, 2			
	Supporting Cluster	J. Graph points on the coordinate plane to solve real-world and mathematical problems.	1	3	0	5
		K. Classify two-dimensional figures into categories based on their properties.	2			
		A. Write and interpret numerical expressions.	1	2		
		B. Analyze patterns and relationships.	2			
		G. Convert like measurement units within a given measurement system.	1			
		H. Represent and interpret data.	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
		B. Select and use appropriate tools strategically. C. Interpret results in the context of a situation. D. Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flow charts, or formulas).	1, 2, 3	1		

Target Sampling Mathematics Grade 5

– 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.

		Target Sampling Mathematics Grade 5				
Claim	**Content Category**	**Assessment Targets**	**DOK**	**Items**		**Total Items**
				CAT	**PT**	
2. Problem Solving 4. Modeling and Data Analysis	Modeling and Data Analysis (drawn across content domains)	A. Apply mathematics to solve problems arising in everyday life, society, and the workplace. D. Interpret results in the context of a situation.	2, 3	1	2–3	5–6
		B. Construct, autonomously, chains of reasoning to justify mathematical models used, interpretations made, and solutions proposed for a complex problem. E. Analyze the adequacy of and make improvements to an existing model or develop a mathematical model of a real phenomenon.	2, 3, 4	1		
		C. State logical assumptions being used. F. Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flow charts, or formulas).	1, 2	1		
		G. Identify, analyze, and synthesize relevant external resources to pose or solve problems.	3, 4	0		
3. Communicating Reasoning	Communicating Reasoning (drawn across content domains)	A. Test propositions or conjectures with specific examples. D. Use the technique of breaking an argument into cases.	2, 3	2	2	8
		B. Construct, autonomously, chains of reasoning that will justify or refute propositions or conjectures. E. Distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in the argument—explain what it is.	2, 3, 4	2		
		C. State logical assumptions being used. F. Base arguments on concrete referents such as objects, drawings, diagrams, and actions.	2, 3	2		

– 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.