Fall 2021-22 Grade 3 Math Virginia Growth Assessment SDBQ Analysis														
			All Item Difficulties			Lo	w Difficu	lty	Medium Difficulty			High Difficulty		
			rrect%	correct%	tal Responses	irrect%	correct%	tal Responses	irrect%	correct%	tal Responses	rrect%	correct%	tal Responses
Grade	Reporting Category	Item Description	S	Ĕ	To	°	Ĕ	L P	S	Ĕ	To	S	Ĕ	Ĺ Ĺ
Grade 3 Mathematics	Computation and Estimation	Create or solve practical problems involving basic multiplication or division facts.	0.0%	100.0%	1				0.0%	100.0%	1			
		Create or solve practical problems involving multiplication.	0.0%	100.0%	1	0.0%	100.0%	1						
		Recall multiplication facts.	0.0%	100.0%	1				0.0%	100.0%	1			
		Solve problems involving addition or subtraction of proper fractions with like denominators using models.	36.2%	63.8%	2,025	36.0%	64.0%	1,735	36.2%	63.8%	257	48.5%	51.5%	33
		Solve problems involving estimation, addition, or subtraction of whole numbers.	46.6%	53.4%	4,045	45.2%	54.8%	3,438	53.8%	46.2%	586	66.7%	33.3%	21
		Solve single-step and multistep practical problems involving estimation, sums, and differences of whole numbers.	43.1%	56.9%	4,046	40.8%	59.2%	3,508	57.9%	42.1%	506	62.5%	37.5%	32
		Use a variety of models to represent multiplication or division facts.	0.0%	100.0%	1	0.0%	100.0%	1						
		Computation and Estimation Total	43.1%	56.9%	10,120	41.6%	58.4%	8,683	51.9%	48.1%	1,351	58.1%	41.9%	86
	Measurement and Geometry	Compare values of sets of coins and bills and make change.	55.6%	44.4%	4,046	54.4%	45.6%	3,389	61.8%	38.2%	657			
		Describe the polygons resulting from combining or subdividing figures.	0.0%	100.0%	1				0.0%	100.0%	1			
		Estimate or determine liquid volume in U.S. Customary or metric units.	0.0%	100.0%	1	0.0%	100.0%	1						
		Estimate or determine the perimeter or area of a given figure.	50.0%	50.0%	2	100.0%	0.0%	1	0.0%	100.0%	1			
		Estimate or measure length in U.S. Customary or metric units.	35.0%	65.0%	2,023	31.6%	68.4%	1,656	49.5%	50.5%	323	56.8%	43.2%	44
		Identify congruent and noncongruent figures with different spatial orientations.	0.0%	100.0%	1	0.0%	100.0%	1						
		Identify points, line segments, rays, angles, and lines.	27.3%	72.7%	2,023	28.3%	71.7%	1,705	25.1%	74.9%	259	6.8%	93.2%	59
		Read temperature to the nearest degree on thermometers with varied increments.	49.6%	50.4%	2,023	51.9%	48.1%	1,700	37.8%	62.2%	323			
		Solve practical problems to determine elapsed time in one-hour increments.	0.0%	100.0%	1				0.0%	100.0%	1			
		Tell time to the nearest minute.	47.7%	52.3%	2,022	47.6%	52.4%	1,747	48.7%	51.3%	275			
		Measurement and Geometry Total	45.1%	54.9%	12,143	44.7%	55.3%	10,200	48.2%	51.8%	1,840	28.2%	71.8%	103
	Number and Number Sense	Compare and order whole numbers.	62.9%	37.1%	2,024	63.1%	36.9%	1,801	61.0%	39.0%	223			
		Compare fractions using models, words, and/or symbols.	50.7%	49.3%	2,024	50.7%	49.3%	2,022	50.0%	50.0%	2			
		Interpret the place and value of each digit of a whole number.	29.9%	70.1%	1,102	29.9%	70.1%	1,102						
		Model fractions and mixed numbers.	34.8%	65.2%	952	34.9%	65.1%	948	0.0%	100.0%	4			
		Read and write numbers with no more than six digits.	26.3%	73.7%	921	26.3%	73.7%	921						
		Round numbers to a specified place value.	56.7%	43.3%	2,024	56.7%	43.3%	2,024						
		Write and represent fractions and mixed numbers using models.	46.8%	53.2%	1,073	46.7%	53.3%	1,072	100.0%	0.0%	1			
		Number and Number Sense Total	47.9%	52.1%	10,120	47.7%	52.3%	9,890	60.0%	40.0%	230			
	Probability, Statistics, Patterns, Functions, and Algebra	Analyze and interpret information presented in a bar graph or pictograph.	64.0%	36.0%	372	67.3%	32.7%	217	59.4%	40.6%	155			
		Construct or identify a bar graph or pictograph that represents collected data.	65.9%	34.1%	1,026	66.4%	33.6%	987	53.8%	46.2%	39			
		Demonstrate equality in equations.	60.9%	39.1%	2,023	60.2%	39.8%	1,713	63.7%	36.3%	284	80.8%	19.2%	26
		Design data investigations.	62.4%	37.6%	364	57.5%	42.5%	261	77.2%	22.8%	57	71.7%	28.3%	46
		Identify the likelihood of an event.	46.8%	53.2%	1,831	45.1%	54.9%	1,682	65.1%	34.9%	149			
		Identify the missing element in a pattern.	65.5%	34.5%	1,146	65.0%	35.0%	1,105	80.5%	19.5%	41			
		Organize a collection of data.	62.0%	38.0%	263	62.9%	37.1%	245	50.0%	50.0%	18			
		Recognize, describe, and extend patterns in various forms.	58.7%	41.3%	879	52.4%	47.6%	586	71.3%	28.7%	293			
		Represent all possible outcomes of an event.	72.5%	27.5%	193				72.5%	27.5%	193			
		Probability, Statistics, Patterns, Functions, and Algebra Total	59.3%	40.7%	8,097	57.7%	42.3%	6,796	67.2%	32.8%	1,229	75.0%	25.0%	72
1	Gr 3 Mathematics Total		48.1%	51.9%	40,480	47.2%	52.8%	35,569	54.9%	45.1%	4,650	51.0%	49.0%	261