

**2019-20 NC Check-In 2
NC Math 1 Mathematics
State Item Statistics**

	Content Standard		Item #	Depth of Knowledge	Percent Correct by Item
Creating Equations	A-CED.1	Create equations and inequalities in one variable that represent linear, exponential, and quadratic relationships and use them to solve problems	4*	Skill/Concept	55.9
			12*^	Strategic Thinking	25.2
			22^	Skill/Concept	48.3
			25^	Skill/Concept	77.1
Reasoning With Equations and Inequalities	A-REI.6	Use tables, graphs, or algebraic methods (substitution and elimination) to find approximate or exact solutions to systems of linear equations and interpret solutions in terms of a context	5*	Skill/Concept	48.0
			7*	Recall	44.2
			9*^	Skill/Concept	43.9
			15^	Recall	43.7
Building Functions	F-BF.1	Build a function that models a relationship between two quantities <ul style="list-style-type: none"> Build linear and exponential functions, including arithmetic and geometric sequences, given in a graph, a description of a relationship, or two ordered pairs (include reading these from a table) 	1	Skill/Concept	38.2
			12^	Recall	50.6
			18^	Skill/Concept	43.3
			20^	Recall	69.9
			23^	Strategic Thinking	38.1
Functions-Interpreting Functions	F-IF.5	Interpret a function in terms of the context by relating its domain and range to its graph and, where applicable, to the quantitative relationship it describes	2	Skill/Concept	32.4
			13^	Skill/Concept	31.5
			16^	Skill/Concept	45.4
			26^	Skill/Concept	27.8
	F-IF.8	Use equivalent expressions to reveal and explain different properties of a function. <ul style="list-style-type: none"> Rewrite a quadratic function to reveal and explain different key features of the function 	3	Skill/Concept	54.8
			6	Recall	34.4
			10*^	Recall	20.6
			17^	Skill/Concept	52.6
	F-IF.9	Use equivalent expressions to reveal and explain different properties of a function. <ul style="list-style-type: none"> Interpret and explain growth and decay rates for an exponential function 	19^	Recall	44.2
			11*^	Skill/Concept	19.8
			14^	Skill/Concept	34.1
			21^	Skill/Concept	47.7
			24^	Skill/Concept	47.3

* Items marked with an asterisk (*) are gridded response items.

^ Students had access to a calculator when completing items marked with a ^.

Note: Results from NC Check-Ins should not be compared across interims, districts, or the state.

Each math Grade 8 NC Check-In assesses different content standards.