

**2018-19 NC Check-In 1
Grade 5 Mathematics
State Item Statistics**

	Content Standard		Item #	Depth of Knowledge	Percent Correct by Item
Numbers and Algebraic Thinking	5.OA.2	Write, explain, and evaluate numerical expressions involving the four operations to solve up to two-step problems. Include expressions involving: <ul style="list-style-type: none"> • Parentheses, using the order of operations • Commutative, associative and distributive properties 	4^	Skill/Concept	77.7
			5^	Skill/Concept	72.0
			6^	Recall	76.4
			7^	Recall	63.1
			17^	Skill/Concept	59.7
			18^	Skill/Concept	76.8
			19^	Strategic Thinking	21.8
	5.OA.3	Generate two numerical patterns using two given rules. <ul style="list-style-type: none"> • Identify apparent relationships between corresponding terms. • Form ordered pairs consisting of corresponding terms from the two patterns. • Graph the ordered pairs on a coordinate plane. 	10^	Recall	77.5
			11^	Skill/Concept	43.5
			12^	Skill/Concept	67.8
			13^	Recall	62.0
			23^	Skill/Concept	71.5
			24^	Recall	68.9
25^			Strategic Thinking	63.9	
Measurement and Data	5.MD.2	Represent and interpret data. <ul style="list-style-type: none"> • Collect data by asking a question that yields data that changes over time. • Make and interpret a representation of data using a line graph. • Determine whether a survey question will yield categorical or numerical data, or data that changes over time. 	8^	Skill/Concept	85.9
			9^	Skill/Concept	77.1
			20^	Skill/Concept	39.4
			21^	Skill/Concept	81.1
			22^	Skill/Concept	54.7
	5.MD.5	Relate volume to the operations of multiplication and addition. <ul style="list-style-type: none"> • Find the volume of a rectangular prism with whole-number side lengths by packing it with unit cubes and show that the volume is the same as would be found by multiplying the edge lengths. • Build understanding of the volume formula for rectangular prisms with whole-number edge lengths in the context of solving problems. • Find volume of solid figures with one-digit dimensions composed of two non-overlapping rectangular prisms. 	1*	Skill/Concept	71.9
			2*	Skill/Concept	64.7
			3*	Skill/Concept	34.8
			14^	Skill/Concept	85.3
			15^	Recall	61.3
16^	Skill/Concept	71.7			

* 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 5 NC Check-In assesses different content standards.