2019-20 NC Check-In 1
Grade 8 Mathematics
State Item Statistics

		Content Standard	Item #	Depth of Knowledge	Percent Correct by Item
Expressions and Equations	**8.EE7**	Solve real-world and mathematical problems by writing and solving equations and inequalities in one variable. • Recognize linear equations in one variable as having one solution, infinitely many solutions, or no solutions. • Solve linear equations and inequalities including multi-step equations and inequalities with the same variable on both sides.	3*	Skill/Concept	25.7
			4*	Skill/Concept	18.3
			5*	Recall	21.6
			6*	Recall	11.5
			7*^	Recall	10.5
			8*^	Recall	32.4
			17^	Skill/Concept	47.1
			18^	Skill/Concept	49.6
			19^	Recall	61.2
Geometry	**8.G.3**	Describe the effect of dilations about the origin, translations, rotations about the origin in 90 degree increments, and reflections across the *x*-axis and *y*-axis on two-dimensional figures using coordinates.	1	Skill/Concept	37.2
			2	Recall	58.7
			14^	Recall	72.6
			15^	Recall	53.7
			16^	Skill/Concept	37.5
			20^	Recall	67.7
			21^	Recall	44.3
			22^	Skill/Concept	71.9
			23^	Skill/Concept	38.3
	8.G.5	Use informal arguments to analyze angle relationships. • Recognize relationships between interior and exterior angles of a triangle. • Recognize the relationships between the angles created when parallel lines are cut by a transversal. • Recognize the angle-angle criterion for similarity of triangles. • Solve real-world and mathematical problems involving angles.	9*^	Skill/Concept	35.0
			10*^	Skill/Concept	29.6
			11^	Skill/Concept	53.3
			12^	Skill/Concept	58.5
			13^	Skill/Concept	39.6
			24^	Skill/Concept	50.3
			25^	Skill/Concept	40.3

* 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.