

**2018-19 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. <ul style="list-style-type: none"> • 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. 	1*	Skill/Concept	25.7
			2*	Recall	16.2
			3*	Skill/Concept	18.3
			4*	Recall	21.6
			5*	Recall	29.7
			6*	Recall	11.5
			13^	Recall	60.7
			14^	Skill/Concept	47.1
			15^	Skill/Concept	49.6
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.	10^	Recall	72.6
			11^	Recall	53.7
			12^	Skill/Concept	37.5
			16^	Recall	67.7
			17^	Recall	63.9
			18^	Skill/Concept	43.9
			21^	Recall	44.3
			22^	Skill/Concept	71.9
	23^	Skill/Concept	38.3		
	8.G.5	Use informal arguments to analyze angle relationships. <ul style="list-style-type: none"> • 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. 	7^	Skill/Concept	53.3
			8^	Skill/Concept	58.5
			9^	Skill/Concept	39.6
			19^	Skill/Concept	32.8
			20^	Skill/Concept	50.3
			24^	Recall	37.7
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.