

**2018-19 NC Check-In 3**  
**Grade 6 Mathematics**  
**State Item Statistics**

	Content Standard		Item #	Depth of Knowledge	Percent Correct by Item
<b>Expressions and Equations</b>	<b>6.EE.7</b>	Solve real-world and mathematical problems by writing and solving equations of the form: <ul style="list-style-type: none"> <li>• <math>x + p = q</math> in which <math>p</math>, <math>q</math> and <math>x</math> are all nonnegative rational numbers; and,</li> <li>• <math>p \cdot x = q</math> for cases in which <math>p</math>, <math>q</math> and <math>x</math> are all nonnegative rational numbers.</li> </ul>	3	Skill/Concept	83.7
			5*	Skill/Concept	72.4
			7*	Skill/Concept	45.9
			8*^	Skill/Concept	36.4
			12^	Skill/Concept	67.9
	<b>6.EE.8</b>	Reason about inequalities by: <ul style="list-style-type: none"> <li>• Using substitution to determine whether a given number in a specified set makes an inequality true.</li> <li>• Writing an inequality of the form <math>x &gt; c</math> or <math>x &lt; c</math> to represent a constraint or condition in a real-world or mathematical problem.</li> <li>• Recognizing that inequalities of the form <math>x &gt; c</math> or <math>x &lt; c</math> have infinitely many solutions.</li> <li>• Representing solutions of inequalities on number line diagrams.</li> </ul>	1	Recall	67.1
			2	Recall	33.9
			15^	Recall	45.5
			17^	Recall	51.0
			19^	Recall	53.0
	<b>6.EE.9</b>	Represent and analyze quantitative relationships by: <ul style="list-style-type: none"> <li>• Using variables to represent two quantities in a real-world or mathematical context that change in relationship to one another.</li> <li>• Analyze the relationship between quantities in different representations (context, equations, tables, and graphs).</li> </ul>	10^	Skill/Concept	63.1
			14^	Skill/Concept	44.5
			18^	Recall	41.9
			21^	Skill/Concept	52.4
			23^	Skill/Concept	41.0
<b>Geometry</b>	<b>6.G.3</b>	Use the coordinate plane to solve real-world and mathematical problems by: <ul style="list-style-type: none"> <li>• Drawing polygons in the coordinate plane given coordinates for the vertices.</li> <li>• Using coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate.</li> </ul>	4*	Skill/Concept	45.5
			6*	Skill/Concept	55.9
			9*^	Strategic Thinking	26.6
			11^	Strategic Thinking	34.2
			24^	Recall	68.1
<b>The Number System</b>	<b>6.NS.9</b>	Apply and extend previous understandings of addition and subtraction. <ul style="list-style-type: none"> <li>• Describe situations in which opposite quantities combine to make 0.</li> </ul>	13^	Recall	76.9
			16^	Skill/Concept	16.1
			20^	Recall	86.0
			22^	Recall	18.5
			25^	Strategic Thinking	48.8

\* 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 6 NC Check-In assesses different content standards.