### Content Standard

<table>
<thead>
<tr>
<th>Item #</th>
<th>Depth of Knowledge</th>
<th>Percent Correct by Item</th>
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<tbody>
<tr>
<td>3</td>
<td>Skill/Concept</td>
<td>83.7</td>
</tr>
<tr>
<td>6*</td>
<td>Skill/Concept</td>
<td>76.0</td>
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<tr>
<td>8*</td>
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<td>52.1</td>
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<td>9*^</td>
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<td>37.9</td>
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<td>69.6</td>
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#### Expressions and Equations

6.EE.7

Solve real-world and mathematical problems by writing and solving equations of the form:

- \( x + p = q \) in which \( p, q \) and \( x \) are all nonnegative rational numbers; and,
- \( p \cdot x = q \) for cases in which \( p, q \) and \( x \) are all nonnegative rational numbers.

6.EE.8

Reason about inequalities by:

- Using substitution to determine whether a given number in a specified set makes an inequality true.
- Writing an inequality of the form \( x > c \) or \( x < c \) to represent a constraint or condition in a real-world or mathematical problem.
- Recognizing that inequalities of the form \( x > c \) or \( x < c \) have infinitely many solutions.
- Representing solutions of inequalities on number line diagrams.

6.EE.9

Represent and analyze quantitative relationships by:

- Using variables to represent two quantities in a real-world or mathematical context that change in relationship to one another.
- Analyze the relationship between quantities in different representations (context, equations, tables, and graphs).

#### Geometry

6.G.3

Use the coordinate plane to solve real-world and mathematical problems by:

- Drawing polygons in the coordinate plane given coordinates for the vertices.
- Using coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate.

#### The Number System

6.NS.9

Apply and extend previous understandings of addition and subtraction.

- Describe situations in which opposite quantities combine to make 0.

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* 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.