

# Winter 2023-2024 Grade 8 Mathematics Growth Assessment

## (Effective for Winter 2024-2025)

In the 2023-2024 school year, students in Virginia public schools will take growth assessments in Grades 3-8 Reading and Mathematics. Legislation passed in the 2021 Virginia General Assembly ([HB2027](#) and [SB1357](#)) requires these assessments be administered to students once in the fall and once in the winter (mid-year). In addition to the growth assessments, the Standards of Learning (SOL) tests for Grades 3-8 Reading and Mathematics will continue to be administered. Test items at, below, and above a student's grade level may be delivered online via the computer adaptive algorithm as appropriate for the student. **Please note that the winter 2023 computer adaptive test for Grade 8 Mathematics will begin with questions that assess [Grade 8 Mathematics SOL](#) that are primarily taught first semester<sup>+</sup>, and the overall test may include test questions that assess Grade 7 or Grade 8 Mathematics SOL.**

Test Blueprint Summary Table

Reporting Category	Grade 8 SOL Eligible to Appear in the Winter 2023 Growth Assessment <sup>+</sup>	Number of Items Winter 2023 Growth Assessment  Computer Adaptive Test (CAT) Format*	Number of Items Winter 2023 Growth Assessment  Paper Format
<b>Number, Number Sense, Computation, and Estimation</b>	<b>8.1</b> <b>8.2</b> <b>8.3a-b</b> <b>8.4</b>	<b>7</b> (28% of the test)	<b>8</b> (about 21% of the test)
<b>Measurement and Geometry</b>	8.5 8.6a-b 8.7a-b 8.8 8.9a-b 8.10	<b>3</b> (12% of the test)	<b>10</b> (about 26% of the test)
<b>Probability, Statistics, Patterns, Functions, and Algebra</b>	8.11a-b 8.12a-c 8.13a-c <b>8.14a-b</b> <b>8.15a-b</b> <b>8.16a-e</b> <b>8.17</b> <b>8.18</b>	<b>15</b> (60% of the test)	<b>20</b> (about 53% of the test)
<b>Number of Operational Items on Test</b>		<b>25</b>	<b>38</b>

<sup>+</sup>Bold font in the table indicates the SOL that are primarily taught first semester, based on commonalities among pacing charts collected in 2020 from several school divisions.

Grade 7 Mathematics SOL test items measured without the use of a calculator are not assessed in the Grade 8 Mathematics Growth Assessment. Please refer to the list of [Online Mathematics Tools](#) available on the Grades 3-8 Mathematics Growth Assessments for additional information.

\*The online CAT includes multiple-choice questions and technology-enhanced items (TEI). The number of TEI on the CAT can range from 10% to 30% as the test meets the blueprint requirements and adapts to the performance level of the individual student.

The formula sheet will appear as an exhibit in an online mathematics test when a student receives a test item at the grade level that allows a formula sheet. Please refer to the list of Online Mathematics Tools available on the Grades 3-8 Mathematics Growth Assessments for additional information.

## **Technology-Enhanced Item Types**

There are different types of technology-enhanced items (TEI). Some examples include:

- drag and drop,
- hot spot,
- bar graph or histogram, and
- fill-in-the-blank.

[Introduction to TestNav 8: Multiple-Choice/Technology-Enhanced Item Tests](#) provides a brief description of the different types of TEI, including what is needed for a TEI to be considered "answered."