

Computer-Based Released Items Grade 3 MCAS Mathematics Spring 2026

The spring 2026 grade 3 Mathematics test was administered in two formats: a computer-based version and a paper-based version. Most students took the computer-based test. The paper-based test was offered as an accommodation for eligible students who were unable to use a computer. More information can be found on the MCAS Test Administration Resources page at www.doe.mass.edu/mcas/admin.html.

The Department of Elementary and Secondary Education is releasing items from both versions of the test to provide information about the knowledge and skills that students are expected to demonstrate.

- Released items from the **computer-based test** are available online at mcas.onlinehelp.cognia.org/released-items.
- Released items from the **paper-based test** are available in PDF format on the Department's website at www.doe.mass.edu/mcas/release.html.

This document provides information about each released and unreleased operational item from the computer-based test, including the following: reporting category, standard covered, item type, item description, and correct answer (for released selected-response and short-answer items only). Sample responses and scoring guidelines for constructed-response items will be posted at www.doe.mass.edu/mcas/student/default.html.

A Note about Testing Mode

Most of the operational items on the grade 3 Mathematics test were the same, regardless of whether a student took the computer-based version or the paper-based version. In places where a technology-enhanced item was used on the computer-based test, an adapted version of the item was created for use on the paper test. These adapted paper items were multiple-choice or multiple-select items that tested the same Mathematics content and assessed the same standard as the technology-enhanced item.

Grade 3 Mathematics
Spring 2026 Computer-Based Released Operational Items

CBT Item No.	Reporting Category	Standard	Item Type*	Item Description	Correct Answer (SR)**
1	<i>Number and Operations in Base Ten</i>	3.NBT.A.2	SR	Solve an addition word problem by adding 2 three-digit numbers.	D
2	<i>Measurement and Data</i>	3.MD.C.6	SR	Determine which irregular shapes have a specified area by counting the unit squares in the shapes.	see page 6
3	<i>Operations and Algebraic Thinking</i>	3.OA.D.8	SR	Identify the best estimate for the solution to a two-step word problem using subtraction.	B
4	<i>Measurement and Data</i>	3.MD.B.3	SR	Identify a scaled picture graph from a given set of data.	A
5	<i>Number and Operations-Fractions</i>	3.NF.A.3	SR	Identify correct comparisons of two fractions with the same numerator or the same denominator.	B,D
6	<i>Measurement and Data</i>	3.MD.A.2	SA	Solve a word problem involving division and measurements given in liters.	see page 6
7	<i>Number and Operations in Base Ten</i>	3.NBT.A.1	CR	Determine and justify which numbers from a given list round to the same 100, identify the greatest number that will also round to the same 100, and explain whether given numbers are correctly rounded to the nearest 10.	
8	<i>Number and Operations-Fractions</i>	3.NF.A.2	SR	Determine the fraction that is plotted on a given number line.	D
9	<i>Operations and Algebraic Thinking</i>	3.OA.B.6	SR	Choose the related operation that can be used to find an unknown quotient.	C
10	<i>Geometry</i>	3.G.A.2	SA	Given the unit fraction that each piece is of a whole, determine the number of equal pieces in the whole.	8
11	<i>Operations and Algebraic Thinking</i>	3.OA.A.1	SR	Determine the equation that can be used to model a given multiplication situation.	B
12	<i>Number and Operations-Fractions</i>	3.NF.A.2	SR	Plot a point on a partitioned number line to show the location of a given fraction less than one.	see page 6
13	<i>Geometry</i>	3.G.A.1	SR	Identify the shape that has two given attributes.	B
14	<i>Measurement and Data</i>	3.MD.C.7	SR	Identify the two expressions that can be used to find the area of a given rectangle that is tiled.	B,E

15	<i>Operations and Algebraic Thinking</i>	3.OA.B.5	CR	Use properties of multiplication to determine an unknown value in an expression, write an equivalent expression, and explain whether given expressions are equivalent.	
16	<i>Measurement and Data</i>	3.MD.C.5	SR	Identify the correct statement relating square units to what is measured.	D
17	<i>Measurement and Data</i>	3.MD.A.1	SA	Solve a word problem to determine a starting time, given the ending time on a digital clock and the time interval.	see page 7
18	<i>Number and Operations-Fractions</i>	3.NF.A.3	SA	Write a fraction that is equivalent to a given fraction.	$\frac{6}{8}$
19	<i>Operations and Algebraic Thinking</i>	3.OA.C.7	SR	Determine the quotients of given division expressions.	see page 7
20	<i>Geometry</i>	3.G.A.2	SR	Determine what unit fraction is represented by one shaded part of a figure.	C

*Mathematics item types are selected-response (SR), short-answer (SA), and constructed-response (CR).

**Answers are provided here for selected-response and short-answer items only. Pages 6 and 7 of this document provide correct answers for technology-enhanced (TE) items. Sample responses and scoring guidelines for constructed-response items will be posted at www.doe.mass.edu/mcas/student/default.html.

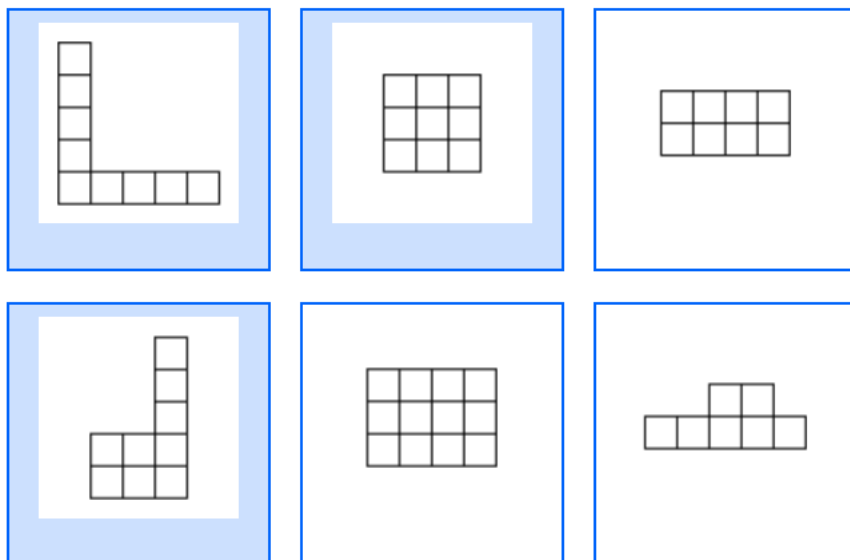
Grade 3 Mathematics
Spring 2026 Computer-Based Unreleased Operational Items

CBT Item No.	Reporting Category	Standard	Item Type*	Item Description
21	<i>Geometry</i>	3.G.A.1	SR	Determine if given shapes have four right angles and/or four equal sides.
22	<i>Operations and Algebraic Thinking</i>	3.OA.A.4	SR	Determine which multiplication and division equations are true when the unknown quantity is replaced with a given value.
23	<i>Number and Operations-Fractions</i>	3.NF.A.1	CR	Determine the fraction represented by a fraction model, justify your answer, and then create a fraction model of a fraction greater than one.
24	<i>Operations and Algebraic Thinking</i>	3.OA.A.3	SA	Use an array to write a multiplication equation that matches a division equation.
25	<i>Number and Operations-Fractions</i>	3.NF.A.3	SR	Identify a fraction equivalent to one whole.
26	<i>Measurement and Data</i>	3.MD.C.7	SR	Complete an equation that can be used when decomposing a rectilinear figure to find the total area.
27	<i>Operations and Algebraic Thinking</i>	3.OA.D.9	SR	Determine the rule in a given number pattern.
28	<i>Operations and Algebraic Thinking</i>	3.OA.A.4	SR	Determine the value of a variable that will make a division equation true.
29	<i>Measurement and Data</i>	3.MD.B.3	SA	Complete a scaled picture graph from a given set of data.
30	<i>Number and Operations in Base Ten</i>	3.NBT.A.3	SR	Solve a word problem by multiplying a one-digit whole number by a multiple of 10.
31	<i>Operations and Algebraic Thinking</i>	3.OA.A.3	SA	Solve a word problem by multiplying two one-digit whole numbers.
32	<i>Operations and Algebraic Thinking</i>	3.OA.D.8	SR	Solve a two-step word problem using multiplication.
33	<i>Number and Operations in Base Ten</i>	3.NBT.A.2	SR	Compare three-digit whole numbers given in a table by subtracting.
34	<i>Number and Operations-Fractions</i>	3.NF.A.3	SR	Identify a fraction that is equivalent to a given fraction when both fractions are represented by models.
35	<i>Operations and Algebraic Thinking</i>	3.OA.A.2	SR	Determine which real-world situations can be represented by a given division expression.
36	<i>Number and Operations in Base Ten</i>	3.NBT.A.3	SA	Determine the product of a one-digit whole number and a multiple of 10 to solve a word problem.

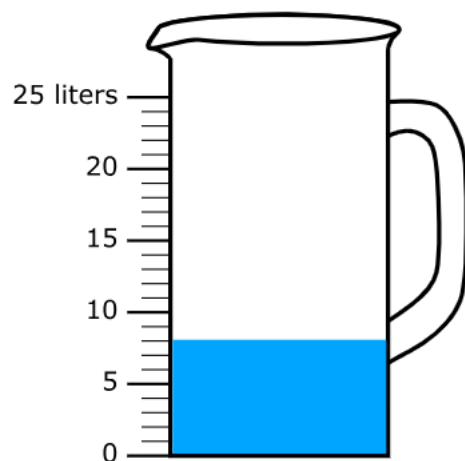
37	<i>Measurement and Data</i>	3.MD.B.4	CR	Measure an object with a ruler to the nearest quarter inch, add the data to a given line plot, and answer a question based on the line plot and the measure of the item.
38	<i>Measurement and Data</i>	3.MD.D.8	SR	Identify rectangles that have the same area but have a different perimeter.
39	<i>Geometry</i>	3.G.A.1	SR	Determine which shape is a specific type of quadrilateral given two specific characteristics.
40	<i>Operations and Algebraic Thinking</i>	3.OA.D.9	SR	Identify a pattern with an even starting number and a given rule.

* Mathematics item types are selected-response (SR), short-answer (SA), and constructed-response (CR).

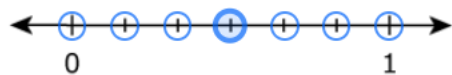
Correct Answer for CBT Item #2: Technology-Enhanced Item



Correct Answer for CBT Item #6: Technology-Enhanced Item



Correct Answer for CBT Item #12: Technology-Enhanced Item



Correct Answer for CBT Item #17: Technology-Enhanced Item

1

2

:

1

5

PM

Correct Answer for CBT Item #19: Technology-Enhanced Item

Expression	6	7	8
$56 \div 8$	☐	☒	☐
$42 \div 7$	☒	☐	☐
$32 \div 4$	☐	☐	☒