

Computer-Based Released Items Grade 4 MCAS Mathematics Spring 2026

The spring 2026 grade 4 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 4 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 4 Mathematics
Spring 2026 Computer-Based Released Operational Items

CBT Item No.	Reporting Category	Standard	Item Type*	Item Description	Correct Answer **
1	<i>Measurement and Data</i>	4.MD.B.4	SR	Determine the line plot that represents a given data set with whole numbers and mixed numbers.	C
2	<i>Geometry</i>	4.G.A.2	SR	Identify the mathematical name of a 2-dimensional figure based on given attributes.	D
3	<i>Number and Operations-Fractions</i>	4.NF.C.5	SR	Interpret two given fraction models, one in tenths and one in hundredths, and identify the equivalent addition expression using fractions with denominators of 100.	C
4	<i>Number and Operations-Fractions</i>	4.NF.B.3	SA	Create expressions which have a value equivalent to a given mixed number.	see page 6
5	<i>Operations and Algebraic Thinking</i>	4.OA.A.2	CR	Solve word problems by identifying and solving equations and interpreting multiplicative comparisons.	
6	<i>Number and Operations-Fractions</i>	4.NF.A.1	SR	Plot a point on a number line that represents the location of a fraction that is greater than one and is equivalent to a given fraction.	see page 6
7	<i>Measurement and Data</i>	4.MD.C.7	SA	Determine the angle measure of a larger angle given the measures of the individual angles that make up the larger angle.	142
8	<i>Number and Operations-Fractions</i>	4.NF.B.4	SR	Determine which expressions are equivalent to the product of a whole number and a fraction.	B,D
9	<i>Operations and Algebraic Thinking</i>	4.OA.C.5	SA	Determine additional terms of a given shape pattern and create an expression to represent the rule of the pattern.	see page 6
10	<i>Geometry</i>	4.G.A.1	SR	Identify the right angle in a given figure.	D
11	<i>Number and Operations-Fractions</i>	4.NF.C.7	SR	Determine which number sentences with the symbols $<$, $>$, or $=$ correctly compare decimal numbers given in tenths and hundredths.	A,D
12	<i>Number and Operations in Base Ten</i>	4.NBT.A.3	CR	Determine 4-digit numbers that will round to a given number and what might be the greatest and least numbers that will round to given numbers when rounding to the nearest hundreds and thousands.	
13	<i>Measurement and Data</i>	4.MD.A.1	SA	Order metric units of length from least to greatest.	see page 6
14	<i>Number and Operations in Base Ten</i>	4.NBT.B.4	SA	Determine the sum of a five-digit number and a four-digit number.	73,242

15	<i>Measurement and Data</i>	4.MD.C.6	SR	Determine the measure of an angle shown on a drawing of a protractor.	B
16	<i>Geometry</i>	4.G.A.3	SR	Determine the number of lines of symmetry in given figures.	see page 7
17	<i>Number and Operations in Base Ten</i>	4.NBT.B.6	SR	Find a whole number quotient, with a remainder, of a four-digit dividend and a one-digit divisor.	see page 7
18	<i>Number and Operations-Fractions</i>	4.NF.B.3	SR	Find the difference of two mixed numbers with like denominators.	B
19	<i>Number and Operations-Fractions</i>	4.NF.C.5	SA	Determine the numerator of a fraction that will make an equation true when adding fractions with denominators of 10 and 100.	2
20	<i>Number and Operations-Fractions</i>	4.NF.B.4	SR	Solve a word problem by multiplying a fraction by a whole number.	B

*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 4 Mathematics
Spring 2026 Computer-Based Unreleased Operational Items

CBT Item No.	Reporting Category	Standard	Item Type	Item Description
21	<i>Measurement and Data</i>	4.MD.A.3	SR	Given the length and width, determine the area and the units used to measure the area of a rectangle.
22	<i>Measurement and Data</i>	4.MD.C.5	SA	Determine the measure of an angle that turns through a given number of one-degree angles.
23	<i>Number and Operations in Base Ten</i>	4.NBT.A.1	SR	Determine which number has a digit with a value that is 10 times the value of a digit in a given number.
24	<i>Number and Operations-Fractions</i>	4.NF.A.2	CR	Write fractions to represent given fraction models, compare fractions with different denominators using symbols, and reason about the size of fractions.
25	<i>Operations and Algebraic Thinking</i>	4.OA.A.3	SR	Solve multi-step, real-world problems using subtraction and division and interpret a remainder.
26	<i>Geometry</i>	4.G.A.1	SR	Identify shapes that have a pair of parallel sides and a pair of perpendicular sides.
27	<i>Number and Operations in Base Ten</i>	4.NBT.B.4	SR	Determine the difference of a six-digit whole number and a four-digit whole number.
28	<i>Geometry</i>	4.G.A.3	SR	Determine which given figure has a line of symmetry.
29	<i>Number and Operations in Base Ten</i>	4.NBT.A.2	SR	Put four six-digit numbers in order from least to greatest.
30	<i>Number and Operations in Base Ten</i>	4.NBT.B.6	SA	Solve a word problem by dividing a 3-digit dividend by a 1-digit divisor.
31	<i>Number and Operations in Base Ten</i>	4.NBT.B.5	SR	Determine the expression that is equivalent to the product of a four-digit number and a one-digit number.
32	<i>Operations and Algebraic Thinking</i>	4.OA.A.3	SA	Solve a multi-step word problem using multiplication and addition of whole numbers.
33	<i>Operations and Algebraic Thinking</i>	4.OA.C.5	SR	Identify a feature of the terms of a pattern given a starting number and rule for the pattern.
34	<i>Number and Operations-Fractions</i>	4.NF.A.1	SA	Create a fraction model to represent a fraction that is equivalent to a given fraction.
35	<i>Measurement and Data</i>	4.MD.A.2	CR	Use a ruler to measure given objects to the nearest centimeter and solve word problems involving multiplication and addition of measurements and the conversion of meters to centimeters.
36	<i>Number and Operations-Fractions</i>	4.NF.C.6	SA	Plot the point on a zoom number line that represents the location of a decimal less than one.

37	<i>Operations and Algebraic Thinking</i>	4.OA.B.4	SR	Identify prime numbers.
38	<i>Number and Operations-Fractions</i>	4.NF.B.3	SA	Solve word problems involving addition and subtraction of mixed numbers with like denominators.
39	<i>Geometry</i>	4.G.A.2	SR	Identify the two-dimensional figure with only obtuse angles.
40	<i>Operations and Algebraic Thinking</i>	4.OA.A.1	SA	Complete a verbal statement of multiplicative comparison that represents a given equation in a word problem.

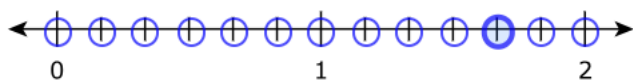
* Mathematics item types are selected-response (SR), short-answer (SA), and constructed-response (CR).

Correct Answer for CBT Item #4: Technology-Enhanced Item

$$1 + \frac{\boxed{4}}{8} + \frac{3}{8}$$

$$\frac{\boxed{8}}{8} + \frac{6}{8} + \frac{1}{8}$$

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



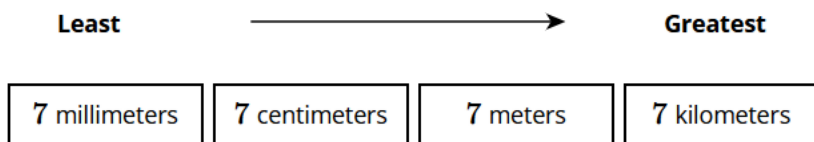
Correct Answer for CBT Item #9: Technology-Enhanced Item

Part A

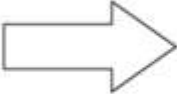
pencils

Part B

Correct Answer for CBT Item #13: Technology-Enhanced Item



Correct Answer for CBT Item #16: Technology-Enhanced Item

Figure	0 Lines	1 Line	2 Lines
	☐	☒	☐
	☒	☐	☐
	☐	☐	☒
	☐	☒	☐

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

The quotient of the expression is with a remainder of .