Computer-Based Released Items Grade 4 RICAS Mathematics Spring 2025

The spring 2025 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.

The Department of 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 ricas.onlinehelp.cognia.org/released-items.
- Released items from the **paper-based** test are available in PDF format on the Department's website at www.ride.ri.gov/InstructionAssessment/Assessment/ReleasedItemsPracticeTests.aspx.

This document provides information about each released item from the *computer-based test*, including the following: reporting category, standard covered, item type, item description, and correct answer (for selected-response and short-answer items only). This information is also provided for unreleased operational items.

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 2025 Computer-Based Released Operational Items

CBT Item No.	Reporting Category	Standard	Item Type*	Item Description	Correct Answer (SR)**
1	Number and Operations- Fractions	4.NF.A.2	SR	Identify a fraction that will make a comparison statement with another fraction true.	D
2	Operations and Algebraic Thinking	4.OA.B.4	SR	Identify whether given numbers are prime or composite.	see page 6
3	Number and Operations- Fractions	4.NF.B.3	CR	Solve word problems by identifying an equation that shows the sum of two fractions, justifying if a given equation is correct or not, adding and subtracting fractions, and subtracting mixed numbers.	
4	Measurement and Data	4.MD.A.3	SR	Determine the perimeter and the units used to measure perimeter of a rectangle.	see page 6
5	Geometry	4.G.A.1	SR	Identify shapes that have a pair of parallel sides.	A,D,E
6	Number and Operations in Base Ten	4.NBT.A.3	SR	Round a six-digit whole number to the nearest thousand.	В
7	Number and Operations in Base Ten	4.NBT.A.2	SR	Match numbers written in expanded form to their equivalent numbers written in word form, and compare numbers written in word form to a number in standard form.	see page 7
8	Operations and Algebraic Thinking	4.OA.A.2	SR	Choose multiplication and division equations that can be used to solve a word problem involving a multiplicative comparison.	A,B,E
9	Measurement and Data	4.MD.C.5	SR	Give the measure of an angle that turns through a portion of a circle.	В
10	Geometry	4.G.A.3	SR	Determine whether lines on geometric figures represent lines of symmetry.	see page 8
11	Number and Operations- Fractions	4.NF.B.4	SR	Solve a word problem by multiplying a fraction and a whole number.	A
12	Number and Operations in Base Ten	4.NBT.B.4	SR	Subtract a four-digit whole number from a five-digit whole number.	В
13	Number and Operations- Fractions	4.NF.C.7	SA	Write a decimal that is less than a number shown on a visual model and is greater than one-half.	any decimal number less than 0.09
14	Measurement and Data	4.MD.A.1	CR	Identify a liquid measurement in liters from a diagram, convert liters to milliliters, convert hours and minutes to only minutes, and compare masses given in different metric units.	
15	Measurement and Data	4.MD.C.6	SR	Determine measures of angles using a protractor.	see page 8
16	Operations and Algebraic Thinking	4.OA.B.4	SR	Identify factors of a given two-digit number.	В,С,Е

CBT Item No.	Reporting Category	Standard	Item Type*	Item Description	Correct Answer (SR)**
17	Number and Operations- Fractions	4.NF.C.6	SA	Write a given decimal as a fraction with a denominator of 100.	see page 8
18	Number and Operations in Base Ten	4.NBT.B.6	SR	Determine the whole number quotient of a four-digit dividend and a one-digit divisor.	A
19	Operations and Algebraic Thinking	4.OA.C.5	SA	Determine the next term of a pattern given the first four terms of the pattern.	198
20	Number and Operations in Base Ten	4.NBT.B.5	SR	Determine if the given products of a three-digit number and a one-digit number are correct.	see page 8

^{*} 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 6–8 of this document provide correct answers for technology-enhanced (TE) items. Sample responses and scoring guidelines for constructed-response essay items will be posted at www.doe.mass.edu/mcas/student/default.html.

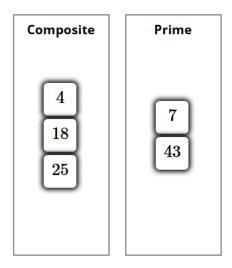
Grade 4 Mathematics Spring 2025 Computer-Based Unreleased Operational Items

CBT Item No.	Reporting Category	Standard	Item Type*	Item Description
21	Number and Operations– Fractions	4.NF.C.5	SR	Determine which fraction is equivalent to a given fraction with a denominator of 100.
22	Number and Operations in Base Ten	4.NBT.B.4	SA	Given one three-digit addend and the four-digit sum, determine the missing addend.
23	Measurement and Data	4.MD.C.7	SR	Create an equation that can be used to determine the unknown measure of an angle, given the measure of another angle and the sum of the two angles' measures.
24	Operations and Algebraic Thinking	4.OA.C.5	SR	Identify the next shape in a given pattern.
25	Number and Operations in Base Ten	4.NBT.B.5	SA	Find the product of two two-digit whole numbers.
26	Number and Operations— Fractions	4.NF.C.7	SR	Identify correct comparisons of decimals given in tenths and hundredths.
27	Number and Operations in Base Ten	4.NBT.A.1	SR	Determine which division equations are correct based on the place values of the digits in the dividend and divisor.
28	Number and Operations– Fractions	4.NF.C.5	SR	Determine which expression is equivalent to a given expression by creating equivalent fractions with denominators of 10 and 100.
29	Operations and Algebraic Thinking	4.OA.A.3	CR	Solve multi-step word problems by using addition, multiplication, and division of whole numbers and by writing and solving an equation.
30	Number and Operations– Fractions	4.NF.B.4	SR	Determine which fraction model represents the product of a whole number and a unit fraction.
31	Measurement and Data	4.MD.B.4	SR	Solve a word problem with addition of fractions by using data from a dot plot.
32	Operations and Algebraic Thinking	4.OA.A.1	SR	Determine which written statements of multiplicative comparison represent a given multiplication equation.
33	Geometry	4.G.A.2	CR	Classify figures based on the presence or absence of perpendicular, parallel, or congruent sides; explain how a right angle determines the classification of a figure; and justify a mathematical name for a given figure.
34	Operations and Algebraic Thinking	4.OA.A.1	SR	Determine which equation with a variable for the unknown can be used to solve a given word problem involving multiplicative comparison.
35	Number and Operations in Base Ten	4.NBT.A.3	SR	Determine which six-digit whole numbers round to a given value when rounded to the nearest hundred thousand.
36	Number and Operations– Fractions	4.NF.A.2	SR	Determine which mixed numbers have a value that is between two given mixed numbers.
37	Measurement and Data	4.MD.A.2	SR	Solve a word problem involving weight.
38	Number and Operations– Fractions	4.NF.A.1	SR	Identify a fraction model that represents a fraction that is equivalent to a given fraction and identify equivalent fractions that are greater than 1.

CBT Item No.	Reporting Category	Standard	Item Type*	Item Description
	Number and Operations— Fractions	4.NF.B.3	SR	Identify the correct equation for a real-world problem involving addition of fractions with like denominators and with a sum greater than one.
40	Measurement and Data	4.MD.C.5	SR	Given an angle measurement, identify the correct statement about the part of a circle the angle turns through.

^{*} 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 #4: Technology-Enhanced Item

The floor of the room has a perimeter of 54 feet.

Correct Answer for CBT Item #7: Technology-Enhanced Item

Part A

sixty-three thousand, eight hundred one

$$60,000 + 3,000 + 800 + 1$$

six thousand, three hundred eighty-one

$$(6\times 1{,}000) + (3\times 100) + (8\times 10) + (1\times 1)$$

sixty thousand, three hundred eighty-one

$$(6\times 10{,}000) + (3\times 100) + (8\times 10) + (1\times 1)$$

Part B

Number	Less Than $13{,}084$	Greater Than $13{,}084$
thirteen thousand, eight hundred thirty- one	0	•
thirteen thousand, seven	•	0
thirteen thousand, one hundred six	0	•

Correct Answer for CBT Item #10: Technology-Enhanced Item

Figure	Line of Symmetry	Not a Line of Symmetry
	•	0
•	0	•
*	•	0

Correct Answer for CBT Item #15: Technology-Enhanced Item

The measure of angle PLM is	70 ▼	degrees.
The measure of angle KLP is $oxedsymbol{igl(}$	145	degrees.

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



Correct Answer for CBT Item #20: Technology-Enhanced Item

Equation	True	False
$257 imes 5=1,\!235$	0	•
$384 imes9=3{,}456$	•	0
601 imes 7 = 4,207	•	0