

## **Computer-Based Released Items**

### **Grade 3 Mathematics**

### **Spring 2023**

The spring 2023 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.

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.pearsonsupport.com/released-items](https://ricas.pearsonsupport.com/released-items). The computer-based released items are collected in a mini test called an ePAT (electronic practice assessment tool). Items in the ePAT are displayed in TestNav 8, the testing platform for the computer-based tests.
- 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](http://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(s) covered, item type, item description, and correct answer (for released selected-response and short-answer items only). Information about unreleased operational items is also presented here.

#### **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, multiple-select, or short-answer items that tested the same Mathematics content and assessed the same standard as the technology-enhanced item.

**Grade 3 Mathematics**  
**Spring 2023 Computer-Based Released Operational Items**

<b>CBT Item No.</b>	<b>Reporting Category</b>	<b>Standard</b>	<b>Item Type*</b>	<b>Item Description</b>	<b>Correct Answer**</b>
1	Operations and Algebraic Thinking	3.OA.A.3	SR	Solve a word problem involving division of two whole numbers.	D
2	Operations and Algebraic Thinking	3.OA.D.9	SA	Identify the rule to find the next number in an addition pattern.	43
3	Measurement and Data	3.MD.A.2	SA	Solve a one-step multiplication word problem with liquid volume in metric units and record the answer using a slider.	<i>see page 5</i>
4	Operations and Algebraic Thinking	3.OA.B.5	SA	Determine the value of the variable in an equation using the Commutative Property of Multiplication.	8
5	Geometry	3.G.A.1	SR	Identify shapes with right angles.	B,C,E
6	Number and Operations-Fractions	3.NF.A.3	SR	Choose the statement that correctly compares two fractions with the same numerator or denominator.	D
7	Number and Operations in Base Ten	3.NBT.A.1	CR	Determine and justify which numbers round to the same 100 and provide different numbers that will also round the same way.	
8	Geometry	3.G.A.2	SA	Given the number of equal parts in a figure, determine what fraction one part is of the area of the whole figure.	<i>see page 5</i>
9	Measurement and Data	3.MD.B.3	SA	Complete a scaled picture graph using the three categories of data in a given table.	<i>see page 5</i>
10	Number and Operations-Fractions	3.NF.A.3	SR	Plot a point on a number line to show the location of a given fraction that is equivalent to a whole number.	<i>see page 6</i>
11	Operations and Algebraic Thinking	3.OA.A.2	SR	Determine which equation can be used to solve a word problem involving division of whole numbers.	C
12	Number and Operations in Base Ten	3.NBT.A.2	SR	Solve a real-world problem by subtracting two three-digit whole numbers.	A
13	Measurement and Data	3.MD.C.7	SR	Identify the expression that can be used to find the total area of a given tiled rectangle using the distributive property.	D
14	Geometry	3.G.A.1	SR	Determine which shape has the same number of angles as a given shape.	D
15	Number and Operations-Fractions	3.NF.A.3	SA	Write a fraction that is equivalent to a given fraction.	<i>see page 6</i>
16	Operations and Algebraic Thinking	3.OA.C.7	SR	Determine which multiplication expression with three factors has a value less than a given value using the properties of operations.	D
17	Operations and Algebraic Thinking	3.OA.C.7	SR	Complete given division equations by choosing the correct quotients.	<i>see page 6</i>
18	Measurement and Data	3.MD.A.1	CR	Tell time on an analog clock, determine an interval of time given time on a digital clock, and solve a word problem by adding a time interval in minutes larger than one hour that changes from A.M. to P.M.	

19	Number and Operations-Fractions	3.NF.A.2	SR	Identify the fraction greater than one that describes where a given point is plotted on a number line.	B
20	Number and Operations in Base Ten	3.NBT.A.3	SR	Multiply one-digit whole numbers by multiples of ten.	<i>see page 6</i>

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

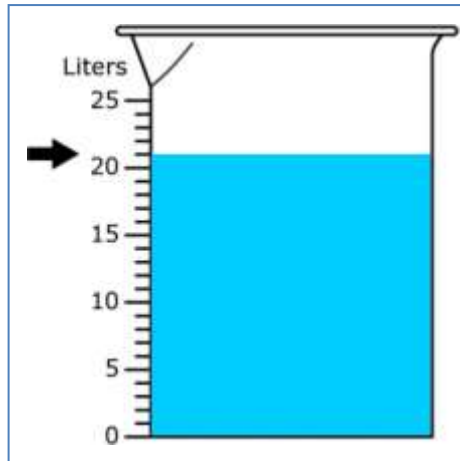
\*\*Answers are provided here for selected-response and short-answer items only. Pages 5 and 6 of this document provide correct answers for technology-enhanced (TE) items. Sample responses and scoring guidelines for constructed-response items will be posted to the department's website later this year.

**Grade 3 Mathematics**  
**Spring 2023 Computer-Based Unreleased Operational Items**

<b>CBT Item No.</b>	<b>Reporting Category</b>	<b>Standard</b>	<b>Item Type*</b>	<b>Item Description</b>
21	Measurement and Data	3.MD.C.7	SR	Complete an equation that can be used to find the area of a given rectangle that is tiled.
22	Measurement and Data	3.MD.B.4	SR	Select an appropriate ruler and measure an item to the nearest fourth of an inch.
23	Operations and Algebraic Thinking	3.OA.B.6	SR	Create multiplication equations that can be used to help solve given division equations that have a variable for the unknown.
24	Measurement and Data	3.MD.A.1	SR	Determine the time on a given analog clock.
25	Operations and Algebraic Thinking	3.OA.D.8	CR	Use different strategies and reasoning to solve two-step word problems with addition and multiplication of whole numbers.
26	Operations and Algebraic Thinking	3.OA.A.3	SR	Solve a word problem given the relationship between two given whole number amounts.
27	Number and Operations in Base Ten	3.NBT.A.2	SR	Compare three-digit whole numbers given in a table by subtracting.
28	Operations and Algebraic Thinking	3.OA.B.5	SA	Use the distributive property to complete a multiplication equation.
29	Measurement and Data	3.MD.C.5	SR	Identify the correct statement about estimating the area of a given figure, made of two squares, based on reasoning about the size of the squares.
30	Number and Operations in Base Ten	3.NBT.A.3	SR	Solve a real-world problem by finding the product of a one-digit number and a multiple of 10.
31	Operations and Algebraic Thinking	3.OA.A.1	SR	Determine the multiplication expressions that can be used to model given rectangular arrays.
32	Operations and Algebraic Thinking	3.OA.D.9	SR	Given the first number and the rule of a pattern, determine a common characteristic of all the numbers in the pattern.
33	Measurement and Data	3.MD.D.8	SA	Given a real-world problem, determine the length of one side of a square given the square's perimeter.
34	Operations and Algebraic Thinking	3.OA.A.4	SR	Determine which multiplication and division equations are true when the unknown quantity is replaced with a given value.
35	Number and Operations-Fractions	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.
36	Number and Operations-Fractions	3.NF.A.2	SR	Plot a unit fraction on a number line.
37	Number and Operations-Fractions	3.NF.A.1	SA	Write a fraction that is represented by a given fraction model.
38	Number and Operations in Base Ten	3.NBT.A.1	SR	Round whole numbers to the nearest 10.
39	Geometry	3.G.A.2	SR	Determine the unit fraction that describes the area of one part of a given shape that is partitioned into equal parts.
40	Measurement and Data	3.MD.C.6	SR	Determine the area of given figures by counting the unit squares.

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

**Correct Answer for CBT Item #3: Technology-Enhanced Item**



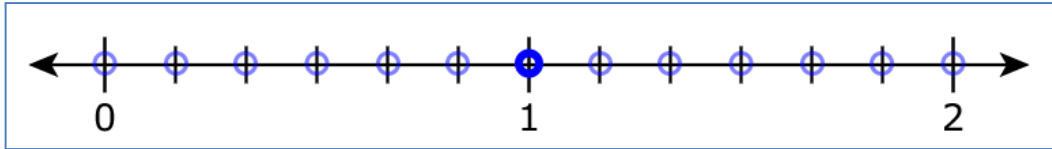
**Correct Answer for CBT Item #8: Technology-Enhanced Item**

- $\frac{11}{22}$  or any equivalent fraction
- No decimals allowed

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

<b>Lunch Sandwiches Sold</b>	
<b>Sandwich</b>	<b>Number Sold</b>
Egg Salad	<input type="text" value="3"/>
Grilled Cheese	<input type="text" value="6"/>
Peanut Butter and Jelly	<input type="text" value="5"/>

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



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

- $\frac{11}{22}$  or any equivalent fraction
- $\frac{22}{44}$  is not allowed
- No decimals allowed

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

Equation	7	8	9
$40 \div 5 =$	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
$42 \div 6 =$	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
$72 \div 8 =$	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
$81 \div 9 =$	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

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

$5 \times 80 =$	<input type="text" value="400"/>
$3 \times 20 =$	<input type="text" value="60"/>
$90 \times 6 =$	<input type="text" value="540"/>