Math Spring 2021 Grade 4 Alignment Document and Answer Key

Sequence	UIN	Evidence Statement	Sub- Claim	Task Type	Points	Calculator	Functionality	2021 Online 1 Form
1	M400309	4.MD.3	В	1.1	1	N	FIB	\checkmark
2	M400569	4.0A.5	В	1.1	1	N	FIB	N
3	VF490086	4.NBT.6-2	А	1.1	1	N	FIB	N
4	M400665	4.0A.3-2	А	1.2	2	N	MC	N
5	VF497997	4.G.3	В	1.1	1	N	MC	V
6	4223- M04140	4.C.5-6	С	2.4	4	N	CR	N
7	M00927	4.MD.5	В	1.1	1	N	MS	N
8	M400595	4.NF.4b-2	А	1.1	1	N	MC	V
9	M400250	4.C.4-5	С	2.3	3	N	CR	N
10	M400260P	4.MD.1	В	1.1	1	N	MS	\checkmark
11	M400552	4.Int.2	А	1.1	1	N	FIB	\checkmark
12	M400620	4.G.1	В	1.1	1	N	MS	\checkmark

Table 1: Grade 4: 2021 Released Items

Sequence: The item order number as it appears in the released item set and answer key

UIN: A unique item number used to identify the item in the internal item bank

Evidence Statements: The evidence statement to which the item is aligned

Sub-Claims: The Sub-Claim to which the item is aligned

Task Type: Type I, II, or III. See the Informational Guides for more information

Functionality: MC – multiple choice; MS – multiple-select; FIB – fill-in-the-blank; CR – constructed response

Sequence	UIN	Evidence Statement	Points	Answer Key
1	M400309	4.MD.3	1	110
2	M400569	4.OA.5	1	36
3	VF490086	4.NBT.6-2	1	8
4	M400665	4.OA.3-2	2	A, D
5	VF497997	4.G.3	1	С
6	4223- M04140	4.C.5-6	4	Part A: See Rubric Part B: See Rubric
7	M00927	4.MD.5	1	A, D, F
8	M400595	4.NF.4b-2	1	D
9	M400250	4.C.4-5	3	See Rubric
10	M400260P	4.MD.1	1	В, Е
11	M400552	4.Int.2	1	672
12	M400620	4.G.1	1	С, Е

Table 2: Grade 4 Released Item List with Answer Key

	Item #6 4223-M04140 Rubric - Part A
Score	Description
	Student response includes each of the following 2 elements:
	 Valid explanation of why Statement 1 is incorrect
	 Correct comparison of the area of Figure Y and Figure Z
	Sample Student Response:
2	"The student is incorrect because models can have equal areas, even if their lengths and widths are different.
	The total area of Figure Y is equal to the total area of Figure Z.
	Each square in Figure Y is equal to one square unit. Since there is 1 row of 8 squares, the area of Figure Y is equal to $1 \times 8 = 8$ square units.
	Each square in Figure Z is equal to one square unit. Since there are 2 rows with 4 squares in each row, the area of Figure Z is equal to $2 \times 4 = 8$ square units."
	Or other valid response.
1	Student response includes 1 of the above elements.
0	The response is incorrect or irrelevant.

	Item #6 4223-M04140 Rubric - Part B					
Score	Description					
	Student response includes each of the following two elements:					
	 Valid explanation of why Statement 2 is incorrect 					
	 Correct area of Figure X: 20 square units 					
	Sample Student Response:					
	"The student is incorrect because the student confused area and perimeter.					
2	The area of a rectangle can be found by counting columns and rows. To find the total area of the rectangle, you must add the amount of unit squares in each row: $5 + 5 + 5 + 5 = 20$ square units.					
	Or since there are 4 rows with 5 squares in each row, the area of Figure X is equal to $4 \times 5 = 20$ square units.					
	The total area of Figure X is 20 square units."					
	Or other valid response.					
1	Student response includes 1 of the above elements.					
0	The response is incorrect or irrelevant.					

Item #9 M400250 Rubric		
Score	Description	
	Student response includes each of the following 3 elements:	
	Reasoning• Valid equation, using fractions, to show sum of values of Grid M and Grid R: $\frac{7}{10} + \frac{17}{100} = \frac{87}{100}$ or equivalentComputation • Correct decimal value of Grid M: 0.7 or equivalentReasoning and Grid R using the comparison $0.7 > 0.17$	
3	Student Sample Response:	
	The equation is $\frac{7}{10} + \frac{17}{100} = \frac{87}{100}$.	
	The decimal value of Grid M is $\frac{7}{10} = 0.7$ Because 0.7 is the same as 0.70, or $\frac{7}{10} = \frac{70}{100}$, I know that 0.70 is greater than 0.17. The value in Grid M is greater than the value in Grid R. We can see there is more shading in Grid M.	
	0.7 > 0.17	
	Or other valid response.	
2	Student response includes 2 of the above elements.	
1	Student response includes 1 of the above elements.	
0	The response is incorrect or irrelevant.	