

Released Items Answer and Alignment Document

Mathematics – Grade 5

Spring 2019

Item Number	Entity ID	Answer Key	Evidence Statement Key
1.	VH141430	A	5.OA.3
2.	M02449	D	5.NF.1-1
3.	VF643115	Part A: 48 Part B: 19 Part C: See Rubric	5.D.2
4.	VH002073	A, F	5.NBT.1
5.	M00996P	C	5.G.1
6.	M01509	B	5.MD.3
7.	4106-M03478	Part A: See Rubric Part B: See Rubric	5.C.4-4
8.	M00517P	C, E, F	5.NF.5a
9.	M01824	D	5.NF.2-1
10.	M03555	See Rubric	5.D.1
11.	M02110	D	5.NF.2-2
12.	M00218	50246	5.NBT.5
13.	M01531	D	5.NF.4a-2
14.	0129-M00697P	Part A: A Part B: 8.1	5.NBT.A.Int.1
15.	VF886110	D	5.NF.7b
16.	4130-M03607P	Part A: C, F Part B: B	5.G.2
17.	VF524499	105	5.NBT.6
18.	VF656117	See Rubric	5.C.7-4
19.	VF441143	C	5.MD.5b

#3 VF643115 Rubric Part C

Score	Description
4	<p>Student response includes the following 4 elements.</p> <ul style="list-style-type: none">• Computation component = 1 point<ul style="list-style-type: none">○ The correct amount of money Ben has remaining, \$7• Modeling component = 1 point<ul style="list-style-type: none">○ Expression that shows how much Ben spends• Modeling component = 1 point<ul style="list-style-type: none">○ Explanation of the expression• Modeling component = 1 point<ul style="list-style-type: none">○ Equation that includes a variable and can be used to determine the amount of money remaining <p>Sample Student Response:</p> <p>The expression for the money Ben spent is $(3 \times 16 + 29) + (20 - 4)$.</p> <p>He bought 3 shirts that cost \$16 each and one pair of pants that cost \$29. The basketball cap is \$4 less than \$20. The total cost of all those items is \$93, so that is how much money Ben spent.</p> <p>If he had \$100 and spent \$93, an equation that could be used to find x dollars remaining is $100 - 93 = x$.</p> <p>$100 - 93 = 7$, so he has \$7 remaining.</p> <p>Note: Any variable can be used.</p> <p>Or other valid response.</p>
3	Student response includes 3 of the 4 elements.
2	Student response includes 2 of the 4 elements.
1	Student response includes 1 of the 4 elements.
0	Student response is incorrect or irrelevant.

#7 4106-M03478 Rubric Part A

Score	Description
1	<p>Student response includes the following element.</p> <ul style="list-style-type: none">• Reasoning component = 1 point<ul style="list-style-type: none">○ Valid explanation of how the model represents the value 2.1 <p>Sample Student Response: The model can be used to visualize the value 2.1 by seeing that the two large blocks each represent a total value of 1 divided into 100 cubes. There are two blocks, so that represents the value 2. The stack of ten cubes represents the value 0.1 since each cube represents one hundredth and 10 hundredths equals 0.10 which is the same as 0.1.</p> <p>Or other valid response.</p>
0	Student response is incorrect or irrelevant.

#7 4106-M03478 Rubric Part B

Score	Description
2	<p>Student response includes the following 2 elements.</p> <ul style="list-style-type: none">• Computation component = 1 point<ul style="list-style-type: none">○ Correct solution to the equation, 6• Reasoning component = 1 point<ul style="list-style-type: none">○ Valid explanation and work how the model can be used to help solve the equation <p>Sample Student Response: I used the fact that since 10 cubes equals 0.1, 35 cubes is equal to 0.35. Because division is breaking a whole into groups of equal parts, I used the model to see how many groups of 35 cubes can be made out of the 210 cubes in the model. The model represents the equation $2.1 \div 0.35 = 6$ since 6 groups of 35 cubes can be made out of the 210 cubes.</p> <p>Or other valid response.</p>
1	Student response includes 1 of the 2 elements.
0	Student response is incorrect or irrelevant.

#10 M03555 Rubric

Score	Description
3	<p>Student response includes the following 3 elements.</p> <ul style="list-style-type: none">• Computation component = 1 point<ul style="list-style-type: none">○ Correct amount of money saved, \$66• Modeling component = 1 point<ul style="list-style-type: none">○ Valid work shown• Modeling component = 1 point<ul style="list-style-type: none">○ Valid equation or equations <p>Sample Student Response:</p> <p>Haley worked a total of 6 hours on Monday, Tuesday, and Wednesday since she worked 2 hours on each of 3 days. Haley worked a total of 5 hours on Thursday and Friday since she worked $2\frac{1}{2}$ hours on each of 2 days.</p> <p>I can use the following equation to determine 11 for the total number of hours she worked in a week.</p> $(3 \times 2) + (2 \times 2\frac{1}{2})$ $6 + 5 = 11$ <p>Haley earned \$99 for the week since I can multiply 11 hours by her hourly wage of \$9.</p> $11 \times 9 = 99$ <p>Haley saved \$66 since she saves $\frac{2}{3}$ of her earnings and I can multiply $\frac{2}{3}$ by \$99 to find the amount saved.</p> $99 \times \frac{2}{3} = 66$ <p>Note: explanation is not required</p> <p>Or other valid response.</p>
2	Student response includes 2 of the 3 elements.
1	Student response includes 1 of the 3 elements.

0	Student response is incorrect or irrelevant.
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#18 VF656117 Rubric

Score	Description
4	<p>Student response includes the following 4 elements.</p> <ul style="list-style-type: none"> • Computation component = 1 point <ul style="list-style-type: none"> ○ Correct amount of fabric Diana will use, 5/8 square yard • Computation component = 1 point <ul style="list-style-type: none"> ○ Correct amount of fabric Diana will have left, 3/8 square yard • Reasoning component = 1 point <ul style="list-style-type: none"> ○ Equation(s) to explain how to correctly find the amount of fabric Diana will use • Reasoning component = 1 point <ul style="list-style-type: none"> ○ Equation(s) to explain how to correctly find the amount of fabric Diana will have left <p>Sample Student Response:</p> <p>Diana will use $\frac{5}{8}$ square yard of fabric and will have $\frac{3}{8}$ square yard of fabric left.</p> $\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$ <p>To subtract $\frac{5}{8}$ from 1, I used $\frac{8}{8}$ to represent 1 whole.</p> $\frac{8}{8} - \frac{5}{8} = \frac{3}{8}$ <p>Or other valid response.</p>
3	Student response includes 3 of the 4 elements.
2	Student response includes 2 of the 4 elements.
1	Student response includes 1 of the 4 elements.
0	Student response is incorrect or irrelevant.