

The following page includes the answer key for all machine-scored items, followed by the rubric for the hand-scored item.

- The rubric shows sample student responses. Other valid methods for solving the problem can earn full credit unless a specific method is required by the item.
- In items where the scores are awarded for full and partial credit, the definition of partial credit will be confirmed during range-finding (reviewing sets of real student work).
- If students make a computation error, they can still earn points for reasoning or modeling.

Unit 1

Item Number	Answer Key	Evidence Statement Key/Content Scope
1. VR105550	D	3.OA.A.3-2
2. VR105551	B, D	3.MD.D.8
3. VR105552	405	3.NBT.A.2
4. VR109168	2	3.NF.A.3c
5. VR109187	A	3.OA.D.9
6. VR109188	C	3.NF.A.2b
7. VR109206	150	3.NBT.A.1
8. VR109207	A	3.MD.B.4
9. VR109214	B	3.G.A.1

Unit 2

Item Number	Answer Key	Evidence Statement Key/Content Scope
1. VR105561	See rubric	3.M.1

Rubric starts below.

Modeling: VH975578 (Rafael's Board)	
<p>Model Solution</p> <p>Part A Rafael can put 12 labels along the length of the board 8 times. $12 \times 8 = 96$ The least number of labels that Rafael needs to cover the board is 96.</p> <p>Part B The least number of packages of labels that Rafael needs to buy is 16 because $96 \div 6 = 16$.</p> <p>Scoring A complete response consists of the following four components (these should all be complete sentences with a period at the end.): In Part A, the response indicates that the least number of labels needed to cover the board is 96. In Part B, the response indicates that the least number of packages of labels that should be bought is 16. NOTE: Correctly dividing an incorrect answer from Part A by 6 satisfies this component. In Parts A and B, the response indicates evidence of understanding that numbers should be multiplied (or numbers should be repeatedly added) in Part A AND that numbers should be divided (or numbers should be repeatedly subtracted) in Part B.</p>	
3	The response includes three of the four components listed above.
2	The response includes two of the four components listed above.
1	The response includes one of the four components listed above.
0	The response includes none of the four components listed above.