

## Constructed Response Rubric

<b>Content Rubric</b>	
2	A score of two indicates a <b>thorough understanding</b> of the mathematical concepts embodied in the task. The response <ul style="list-style-type: none"> <li>• shows algorithms, computations, and other content related work executed correctly and completely.</li> </ul>
1	A score of one indicates a <b>partial understanding</b> of the mathematical concepts embodied in the task. The response <ul style="list-style-type: none"> <li>• contains errors in the execution of algorithms, computations, and/or other content related work.</li> </ul>
0	A score of zero indicates <b>limited or no understanding</b> of the mathematical concepts embodied in the task.
<b>Problem-Solving Rubric</b>	
2	A score of two indicates a <b>thorough understanding</b> of the problem-solving concepts embodied in the task. The response <ul style="list-style-type: none"> <li>• shows an appropriate strategy to solve the problem, and the strategy is executed correctly and completely.</li> <li>• identifies all important elements of the problem and shows a complete understanding of the relationships among them.</li> <li>• provides clear and complete explanations and/or interpretations when required.</li> </ul>
1	A score of one indicates a <b>partial understanding</b> of the problem-solving concepts embodied in the task. The response contains one or more of the following errors. The response <ul style="list-style-type: none"> <li>• shows an appropriate strategy to solve the problem. However, the execution of the strategy contains errors and/or is incomplete.</li> <li>• identifies some of the important elements of the problem and shows a general understanding of the relationships among them.</li> <li>• provides incomplete, partial, or unclear explanations and/or interpretations when required.</li> </ul>
0	A score of zero indicates <b>limited or no understanding</b> of the problem-solving concepts embodied in the task.

### Clarification and Implementation Guidance

- Correct answers ONLY, on all parts of the problem with no work shown, will receive a maximum of 1 point in content and a maximum of 1 point in Problem Solving.
- A student can receive the top score point in Problem Solving if the strategy used would result in a correct answer even though the response contains computation errors.
- A student can receive the top score point in Problem Solving if an error made in the “content” portion is used with an appropriate strategy to solve the problem.

## Extended Response Rubric

<b>Content Rubric</b>	
3	A score of three indicates a <b>thorough understanding</b> of the mathematical concepts embodied in the task. The response <ul style="list-style-type: none"> <li>• shows algorithms, computations, and other content related work executed correctly and completely.</li> </ul>
2	A score of two indicates a <b>partial understanding</b> of the mathematical concepts embodied in the task. The response <ul style="list-style-type: none"> <li>• shows an attempt to execute algorithms, computations, and other content related work correctly and completely; computation errors or other minor errors in the content related work may be present.</li> </ul>
1	A score of one indicates a <b>limited understanding</b> of the mathematical concepts embodied in the task. The response <ul style="list-style-type: none"> <li>• contains major errors, or only a partial process.</li> <li>• contains algorithms, computations, and other content related work which may only be partially correct.</li> </ul>
0	A score of zero indicates <b>no understanding</b> of the mathematical concepts embodied in the task.
<b>Problem-Solving Rubric</b>	
3	A score of three indicates a <b>thorough understanding</b> of the problem-solving concepts embodied in the task. The response <ul style="list-style-type: none"> <li>• shows an appropriate strategy to solve the problem, and the strategy is executed correctly and completely.</li> <li>• identifies all important elements of the problem and shows a complete understanding of the relationships among them.</li> <li>• provides clear and complete explanations and/or interpretations when required.</li> </ul>
2	A score of two indicates a <b>partial understanding</b> of the problem-solving concepts embodied in the task. The response contains one or more of the following errors. The response <ul style="list-style-type: none"> <li>• shows an appropriate strategy to solve the problem. However, the execution of the strategy lacks an essential element.</li> <li>• identifies some of the important elements of the problem and shows a general understanding of the relationships among them.</li> <li>• provides incomplete or unclear explanations and/or interpretations when required.</li> </ul>
1	A score of one indicates a <b>limited understanding</b> of the problem-solving concepts embodied in the task. The response contains one or more of the following errors. The response <ul style="list-style-type: none"> <li>• shows an appropriate strategy to solve the problem. However, the execution of the strategy is applied incorrectly and/or is incomplete.</li> <li>• shows a limited understanding of the relationships among the elements of the problem.</li> <li>• provides incomplete, unclear, or omitted explanations and/or interpretations when required.</li> </ul>
0	A score of zero indicates <b>no understanding</b> of the problem-solving concepts embodied in the task.

### **Clarification and Implementation Guidance**

- Correct answers ONLY, on all parts of the problem with no work shown, will receive a maximum of 2 points in content and a maximum of 2 points in Problem Solving.
- A student can receive the top score point in Problem Solving if the strategy used would result in a correct answer even though the response contains computation errors.
- A student can receive the top score point in Problem Solving if an error made in the “content” portion is used with an appropriate strategy to solve the problem.