

**Math Problem Solving Project**

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As you know, we have a different problem every class for the most part. The problems consist of puzzles and games that use numerical and spatial reasoning, logic, and/or patterns. Your job is to choose one problem and submit the detailed solutions and reflection. The solution can be in a variety of different forms: written submission, video screencast, comic strip, music video, skit, and more. Each person will be submitting his/her own project.

**Term 3 Project Due: May 24, 2019 Friday Before Midnight**

**Part 1: The original problem:**

	2	1	0
Understanding	<ul style="list-style-type: none"> <li>Finds all important parts of the problem</li> <li>Fully describe the problem including any assumptions</li> </ul>	<ul style="list-style-type: none"> <li>Shows some understanding of the problem</li> <li>Does not fully describe the details of the problem</li> </ul>	<ul style="list-style-type: none"> <li>Does not show any understanding of the problem</li> </ul>
Accuracy	Solution for the problem is accurate	Incorrect solution	No solution

	4	3	2	1	0
Process & Strategies	<ul style="list-style-type: none"> <li>Strategies are fully explained, step-by-step, and easy to follow</li> <li>Includes clear diagrams and/or charts to support the steps and solution</li> </ul>	<ul style="list-style-type: none"> <li>Strategies provided but incomplete and/or difficult to follow</li> <li>Includes clear diagrams and/or charts to support the steps and solution</li> </ul>	<ul style="list-style-type: none"> <li>Strategies provided but incomplete and/or difficult to follow</li> <li>Missing clear charts and/or diagrams</li> </ul>	<ul style="list-style-type: none"> <li>Tries to solve the problem</li> <li>Shows some thinking, but not enough to completely solve the problem</li> </ul>	<ul style="list-style-type: none"> <li>Problem not solved</li> <li>No reasoning or strategy provided</li> </ul>

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See back page.

Name: \_\_\_\_\_ Block: \_\_\_\_\_ Date: \_\_\_\_\_

**Part 2: Extension of the original problem:**

(Extension of the original problem must be provided for this part to be included in the marking.)

	2	1	0
Understanding	<ul style="list-style-type: none"> <li>Finds all important parts of the problem</li> <li>Fully describe the problem including any assumptions</li> </ul>	<ul style="list-style-type: none"> <li>Shows some understanding of the problem</li> <li>Does not fully describe the details of the problem</li> </ul>	<ul style="list-style-type: none"> <li>Does not show any understanding of the problem</li> </ul>
Accuracy	Solution for the problem is accurate	Incorrect solution	No solution

	4	3	2	1	0
Process & Strategies	<ul style="list-style-type: none"> <li>Strategies are fully explained, step-by-step, and easy to follow</li> <li>Includes clear diagrams and/or charts to support the steps and solution</li> </ul>	<ul style="list-style-type: none"> <li>Strategies provided but incomplete and/or difficult to follow</li> <li>Includes clear diagrams and/or charts to support the steps and solution</li> </ul>	<ul style="list-style-type: none"> <li>Strategies provided but incomplete and/or difficult to follow</li> <li>Missing clear charts and/or diagrams</li> </ul>	<ul style="list-style-type: none"> <li>Tries to solve the problem</li> <li>Shows some thinking, but not enough to completely solve the problem</li> </ul>	<ul style="list-style-type: none"> <li>Problem not solved</li> <li>No reasoning or strategy provided</li> </ul>

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**Part 3: Overall Learning:**

	2	1	0
Math Communication	Clear and thoughtful explanation of the problems and solutions as related to general math concept/logic/skills/processes	Explanation was presented in a way that is difficult to understand and/or incomplete	Explanation not provided
Reflection	The reflection explains the student's own thinking and learning processes, as well as implications for future learning.	The reflection attempts to demonstrate thinking about learning but is vague and/or unclear about the personal learning process.	Reflection not provided

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