

## Mathematical Application

	4	3	2	1	Score
<b>Understands the problem</b>	The student's work shows knowledge of the problem, including important information and underlying mathematical concepts.	The student's solution is correct, but the way it is presented (labeling, etc.) indicates a slight lack of understanding. <i>and/or</i> The student's response lacks attention to detail.	The student's solution is partially or totally incorrect, possibly indicating that parts of the problem were misunderstood.	The student presents no solution, or the solution presented is not related to the problem.	
<b>Uses Appropriate Strategies and Procedures</b>	The student uses an efficient strategy or procedure(s) and solves the problem correctly.	The student uses a strategy that leads to a correct solution, but it is not the most efficient strategy.	The student uses a strategy that is partially useful but yields an incorrect solution. <i>and/or</i> The student uses an appropriate procedure but answers incorrectly.	The student shows no evidence of using a strategy or procedure. <i>and/or</i> The student uses a strategy that does not help solve the problem.	
<b>Evaluates the Solution</b>	The student answers correctly and verifies the solution and/or evaluates the reasonableness of the solution using estimation and/or logic.	The student answers correctly but doesn't verify the solution and/or evaluate the reasonableness of the solution.	The student answers incorrectly and doesn't verify the solution and/or evaluate the reasonableness of the solution.	The student's answer is so far off that he/she should know it is unreasonable.	
<b>Applies the Technique (if applicable)</b>	The student makes mathematically relevant observations and/or connections	The student makes a connection relevant to the problem but misses a key component.	The student tries to make a connection but it's not relevant to the problem.	The student cannot make connections to other problems of this type.	
<b>Communicates to the Reader</b>	The student presents a clear, effective explanation <i>detailing</i> how the problem is solved. <i>and/or</i> The student uses precise and appropriate mathematical terminology and notation.	The student presents an adequate explanation but it isn't very detailed. <i>and/or</i> The student uses adequate mathematical terminology and notation.	The student presents a partial explanation. <i>and/or</i> The student uses some mathematical terminology and notation appropriate to the problem.	The student presents no explanation of the solution, the explanation cannot be understood, or the explanation is unrelated to the problem. <i>and/or</i> The student uses mathematical terminology and notation inappropriately or not at all.	