

Marking Rubric (Constructed Response)

Snapshot

4	Student demonstrates an extensive understanding of the situation. The approach is effective and comprehensive. The solution is supported by relevant evidence, and any errors are minor and do not hinder the solution's reasonableness within context. The reasoning is clearly communicated and addresses all critical and pertinent aspects of the problem.
3	Student demonstrates a strong understanding of the situation. The approach is sensible. The solution addresses all critical aspects of the problem; minor mathematical errors may exist. The reasoning is clearly communicated and references most pertinent aspects of the problem.
2	Student demonstrates a basic understanding of the situation. The approach may be unclear and/or incomplete but is on the right track. The solution may contain mathematical errors. The reasoning may be unclear but aligns with certain critical aspects of the problem.
1	Student demonstrates a limited understanding of the situation. The approach is ineffective or leaves out critical aspects needed to resolve the problem. The solution may contain fundamental mathematical errors. The reasoning is missing or irrelevant.
0*	Student work described by one of the following statements: <ul style="list-style-type: none"> • <i>Information simply recopied from the problem.</i> • <i>Diagrams or calculations are unrelated to the problem.</i> • <i>Any answer without supporting work.</i> • <i>Response does not address the purpose of the task.</i> • <i>Inappropriate response (contains profanity, inappropriate diagram or language).</i> • <i>All work is erased or crossed out.</i>
NR	No response (answer sheet is blank)

* Any zero score must include rationale and be approved by the section head.

Elaborations

	Interpret	Apply	Solve	Analyze	Communicate
4	Advanced reasoning skills in determining the relevance of situational information in the task context.	Success in relating the context into mathematical language using a clear and logical approach.	Advanced use of mathematical concepts and skills; solution is reasonable and appropriate to context.	Reasoning or justification of solution is complete and comprehensive.	Advanced use of mathematical language (e.g., graphs, symbols) to express solution, supported by insightful or logical evidence.
3	Effective reasoning skills in determining the relevance of situational information in the task context.	Success in relating the context into mathematical language; errors in the approach are minor and do not hinder understanding.	Effective use of mathematical concepts and skills; solution is appropriate to context but may contain minor errors.	Reasoning or justification of solution is complete.	Effective use of mathematical language (e.g., graphs, symbols) to express solution, supported by relevant evidence.
2	Basic reasoning skills in determining the relevance of situational information in the task context.	Partial success in relating the context into mathematical language but may contain errors in the approach.	Basic use of mathematical concepts and skills; solution is missing essential calculations or contains major errors.	Reasoning or justification of solution is partially complete; or solution may not be reasonable in context.	Basic use of mathematical language (e.g., graphs, symbols) to express solution, supported by evidence that contains inconsistencies or is difficult to follow.
1	Limited reasoning skills in determining the relevance of situational information in the task context.	Limited success in relating the context into mathematical language; contains fundamental errors in the approach.	Limited use of mathematical concepts and skills; solution contains mostly irrelevant or incorrect calculations.	Reasoning or justification of solution is absent or fundamentally incorrect.	Limited use of mathematical language (e.g., graphs, symbols) to express solution, supported by limited or irrelevant evidence.