

General Education Outcome Quantitative Literacy and Fluency

(Demonstrate and communicate computational methods
and mathematical reasoning in a variety of formats
(using words, tables, graphs, mathematical equations, etc. as appropriate))

Rubric

| Criteria | Exemplary (2) | Met (1) | Unmet (0) | N/A |
|-------------------------|--|--|---|--|
| Extrapolate information | <input type="checkbox"/> Information is extracted correctly from the application. <input type="checkbox"/> Information is used in correct formulas. | <input type="checkbox"/> Information is extracted from the application with minor errors in copying data. <input type="checkbox"/> Information is used in correct formulas with minor errors in copying data. | <input type="checkbox"/> Information is extracted with major errors in understating the application. <input type="checkbox"/> Information is used in wrong formulas. | <input type="checkbox"/> N/A <input type="checkbox"/> N/A |
| Demonstration | <input type="checkbox"/> The process demonstrates full comprehension of mathematical concepts or procedures. | <input type="checkbox"/> The process demonstrates knowledge of mathematical concepts or procedures with minor errors in computations, sign errors, or copying errors. | <input type="checkbox"/> The process demonstrates little or no knowledge of mathematical concepts or procedures. | |
| Solution | <input type="checkbox"/> The solution is complete & correct. | <input type="checkbox"/> The solution is complete and aligns with the concepts but might contain errors from coping data wrong or rounding. | <input type="checkbox"/> The solution is missing or not indicated properly. | |
| Interpretation | <input type="checkbox"/> The response effectively applies the solution to the problem. | <input type="checkbox"/> The response applies the solution to the problem with minor errors in concepts or missing units. | <input type="checkbox"/> The response is missing, doesn't effectively apply, or shows serious flaws in the applying the solution. | <input type="checkbox"/> N/A |

DEFINITIONS:

Process: The steps the student followed to arrive at the solution.

Solution: The final computational answer.

Response: The applying of the solution.

Score Overview

- Exemplary (2)** Information is extracted correctly from the application. Information is used in correct formulas. The process demonstrates full comprehension of mathematical concepts or procedures. The solution is complete & correct. The response effectively applies the solution to the problem
- Met (1)** Information is extracted from the application with minor errors in copying data. Information is used in correct formulas with minor errors in copying data. The process demonstrates knowledge of mathematical concepts or procedures with minor errors in computations, sign errors, or copying errors. The solution is complete and aligns with the concepts but might contain errors from copying data wrong or rounding. The response applies the solution to the problem with minor errors in concepts or missing units
- Unmet (0)** Information is extracted with major errors in understating the application. Information is used in wrong formulas. The process demonstrates little or no knowledge of mathematical concepts or procedures. The solution is missing or not indicated properly. The response is missing, doesn't effectively apply, or shows serious flaws in the applying the solution