



MCAP Mathematics

Holistic Rubric for 3-Point Reasoning Constructed Response Items

This holistic rubric guides the evaluation of a student response by providing descriptions of sample characteristics for each score point. A score is based on an overall analysis of what is included in a student’s response rather than what is missing. It is not necessary for a response to include all of the sample characteristics.

Points	Sample Characteristics
3 Points	<p>A three-point response for reasoning items provides evidence of correct, complete, and appropriate mathematical reasoning.</p> <p>The response may:</p> <ul style="list-style-type: none">• be clear and well developed with logical reasoning communicated by the use of precise and appropriate representations, symbols, drawings, or mathematical vocabulary.• contain minor flaws that do not detract from the correct reasoning or demonstration of a thorough understanding.
2 Points	<p>A two-point response for reasoning items provides evidence of partially correct mathematical reasoning.</p> <p>The response may:</p> <ul style="list-style-type: none">• display an incomplete reasoning process.• contain minor flaws that detract from the correct reasoning or demonstration of a thorough understanding.
1 Point	<p>A one-point response for reasoning items provides limited evidence of correct mathematical reasoning.</p> <p>The response may:</p> <ul style="list-style-type: none">• demonstrate the beginning of a valid chain of reasoning.• reflect a lack of essential understanding of the underlying mathematical concepts.• contain the correct solution, but work is limited or missing.• contain errors in the fundamental mathematical procedures or reasoning.• contain omissions or irregularities that lead to an inadequate solution.
0 Point	<p>A zero-point response is completely incorrect, incoherent or irrelevant.</p>

This holistic rubric guides the evaluation of a student response by providing descriptions of sample characteristics for each score point. A score is based on an overall analysis of what is included in a student's response rather than what is missing. It is not necessary for a response to include all of the sample characteristics.

Points	Sample Characteristics
4 Points	<p>A four-point response for reasoning items provides evidence of correct, complete, and appropriate mathematical reasoning.</p> <p>The response may:</p> <ul style="list-style-type: none"> • be clear and well developed with logical reasoning communicated by the use of precise and appropriate representations, symbols, drawings, or mathematical vocabulary. • demonstrate a thorough understanding of the mathematics. • contain minor flaws that do not detract from the correct reasoning or demonstration of a thorough understanding.
3 Points	<p>A three-point response for reasoning items provides evidence of essentially correct, essentially complete, and essentially appropriate mathematical reasoning.</p> <p>The response may:</p> <ul style="list-style-type: none"> • be clear and developed with logical reasoning communicated by the use of essentially precise and appropriate representations, symbols, drawings, or mathematical vocabulary. • contain minor flaws that detract from the correct reasoning or demonstration of a thorough understanding.
2 Points	<p>A two-point response for reasoning items provides evidence of partially correct mathematical reasoning.</p> <p>The response may:</p> <ul style="list-style-type: none"> • display an incomplete reasoning process. • contain mathematical flaws.
1 Point	<p>A one-point response for reasoning items provides limited evidence of correct mathematical reasoning.</p> <p>The response may:</p> <ul style="list-style-type: none"> • demonstrate the beginning of a valid chain of reasoning. • reflect a lack of essential understanding of the underlying mathematical concepts. • contain the correct solution, but work is limited or missing. • contain errors in the fundamental mathematical procedures or reasoning. • contain omissions or irregularities that lead to an inadequate solution.
0 Point	<p>A zero-point response is completely incorrect, incoherent, or irrelevant.</p>