Reasoning: Quantitative Reasoning

Students' ability to represent and interpret mathematical information and apply it to a task

Criteria	Proficient (able or skilled)	Developing (progressing)	Insufficient (incomplete or unsatisfactory evidence)
representation demonstrates mastery of mathematical information in a variety of modes (e.g., symbolically, visually, numerically, and verbally)	student demonstrates mastery of mathematical modes of representation	student inconsistently demonstrates mathematical modes of representation	student does not demonstrate mathematical modes of representation
application applies appropriate mathematical methods (e.g., numerical, analytical, graphical, and statistical) to solve a problem	student applies appropriate mathematical methods to solve problems	student inconsistently applies appropriate mathematical methods to solve problems	student does not apply appropriate mathematical methods to solve problems
interpretation draws inferences through interpretation of mathematical models (e.g., formulas, graphs, tables, and diagrams)	student draws inferences through interpretation of mathematical models	student inconsistently draws inferences through interpretation of mathematical models	student does not draw inferences through interpretation of mathematical models
analysis analyzes answers for validity of mathematical processes and results	student analyzes answers for validity of mathematical processes and results	student inconsistently analyzes answers for validity of mathematical processes and results	student does not analyze answers for validity of mathematical processes and results