

Mathematics Performance Assessment Rubric

Part a) Correct Solution YES NO

Criteria	4	3	2	1
Part b) Conceptual Knowledge	Attribute(s) of concept(s) Correctly identifies attributes of the problem, which leads to correct inferences. Inferences Combines the critical attributes of the problem in order to correctly describe the mathematical relationship(s) inherent in the problem.	Attribute(s) of concept(s) Correctly identifies attributes of the problem, which leads to correct inferences. Inferences Combines the critical attributes of the problem, which leads to a partial identification of the mathematical relationship(s) inherent in the problem.	Attribute(s) of concept(s) Identifies some of the attributes of the problem, which leads to partially correct inferences. Inferences Combines the identified attributes of the problem, which leads to a partial identification of the mathematical relationship(s) inherent in the problem.	Attribute(s) of concept(s) Lacks identification of any of the critical attributes of the problem. Inferences Combines few of the attributes of the problem which leads to an incomplete identification of the mathematical relationship(s) inherent in the problem.
Part c) Procedural Knowledge	Appropriate strategy Selects and implements an appropriate strategy. Representational form Uses appropriate representation to connect the procedure to the concept of the problem. Algorithmic competency Correctly implements procedure to arrive at a correct solution.	Appropriate strategy Selects and implements an appropriate strategy. Representational form Uses appropriate representation to connect the procedure to the concept of the problem. Algorithmic competency Implements selected procedure but arrives at an incorrect solution.	Appropriate strategy Selects and implements an appropriate strategy. Representational form Uses inconsistent or insufficient representation for the selected solution strategy. Algorithmic competency Implements selected procedure but arrives at an incorrect or correct solution. (See Part a above)	Appropriate strategy Selects and implements an inappropriate strategy. Representational form Uses incorrect representations. Algorithmic competency Makes significant errors.
Part d) Communication	Justification Fully answers the question of “why” for the strategy selection; explains procedure; and/or evaluates reasonableness of solution. Terminology Uses appropriate terminology and notation.	Justification Fully answers the question of “why” for the strategy selection; explains procedure; and/or evaluates reasonableness of solution. Terminology Uses some appropriate terminology or notation.	Justification Incompletely answers the question of “why” for the strategy selection; explains procedure; and/or evaluates reasonableness of solution. Terminology Uses some appropriate terminology or notation.	Justification Provides very little or no explanation of what was done and why. Terminology Uses limited or inappropriate terminology or notation.

