

Ten-Point Rubric

10 Excellent Understanding (A+)

- Student work shows excellent understanding of mathematical concepts, principles, and their inter-relationships. Student answers all parts of the question.
- Performance shows mastery of the use of mathematics to solve problems.
- Data analyses and explanations demonstrate a high level of reasoning.
- Models, principles, or theories are used creatively to analyze problems, draw analogies, and make insightful inferences and appropriate applications to daily life.
- No mathematical errors. Student uses an appropriate process to achieve a solution that is both correct and proven.

9 Strong Understanding (A)

- Student work shows strong understanding of mathematical concepts, principles and their inter-relationships. Students answers all parts of the question.
- Performance shows very good understanding of the use of mathematics to solve problems.
- Data analyses and explanations demonstrate a high level of reasoning.
- Models, principles, or theories are used effectively to analyze problems, draw analogies, and make inferences and applications to daily life.
- No mathematical errors. Student achieves a solution that is correct through a viable process.

8 Good Understanding (B)

- Student work shows good understanding of mathematical concepts, principles and their inter-relationships. Student answers all parts of the question.
- Performance shows good understanding of the use of mathematics to solve problems.
- Data analyses and explanations demonstrate sound reasoning.
- Models, principles, or theories are used correctly to analyze problems and draw analogies.
- No mathematical errors. Student achieves a solution that is correct.

7 Basic Understanding (C)

- Student work shows basic understanding of mathematical concepts, principles and their inter-relationships. Student answers some of the question.
- Performance shows some use of methods of mathematics to solve problems.
- Work states facts, draws conclusions, or makes assertions that are incompletely substantiated.
- Minimal mathematical errors. Student achieves a solution that is close to correct.

6 Limited Knowledge (D)

- Student work shows limited knowledge of mathematical concepts, principles and their inter-relationships. Student answers some of the question.
- Performance shows limited use of mathematics to solve problems.
- Some mathematics may be correctly demonstrated, but evidence of an understanding of broad concepts is lacking.
- Some mathematical errors. Student uses some correct processes but their answer is incorrect.

5 Minimal Knowledge (F)

- Student work shows minimal knowledge of mathematical concepts and does not provide evidence of an understanding of individual facts, concepts, or their interrelationships.
- Performance shows little or no correct use of mathematics to solve problems.
- Work contains mathematical errors. Student's process and answer is incorrect.