

“Is There Really a Difference!” PORTFOLIO

COVER LETTER FOR Is There Really a Difference!

1. Cover Letter Introduction (20 pts)

a. Identify and describe the main mathematical ideas

- 0 – No mathematical concepts identified or described
- 1 – Limited, vague description of 2-3 mathematical concepts or 1 satisfactory description of a concept
- 2 – Limited, vague description of 4-5 mathematical concepts or only 2 satisfactory descriptions of concepts
- 4 – Satisfactory description of 3-4 mathematical concepts with minimal reference to specific unit examples
- 8 – Excellent description of 5-6 mathematical concepts with extensive reference to specific unit examples

b. Describe how the key ideas were developed

- 0 – No key ideas identified or described
- 1 – Limited, vague description of 2-3 key ideas or 1 satisfactory description of a key idea
- 2 – Limited, vague description of 4-5 key ideas or a satisfactory descriptions of 2 key ideas
- 4 – Satisfactory description of 3-4 key ideas with minimal reference to specific unit examples
- 8 – Excellent description of 5-6 key ideas with extensive reference to specific unit examples

c. Description of how ALL the key ideas were needed to answer the unit question “Is There Really a Difference?”

- 0 – No description
- 1 – A limited and/or vague description with no supporting examples
- 2 – A limited description with few supporting examples
- 3 – A satisfactory description with several supporting examples, however examples tend to rather general
- 4 – A detailed description with many specific supporting examples

2. Explanation for Selected Papers (40 pts)

a. Describe how your selected paper(s) demonstrated how the χ^2 statistic was helpful in making a decision

- 0 – No paper(s) selected
- 1- Limited, incomplete, or vague description of how selected paper(s) show you know how the χ^2 can be helpful in making decisions with no specific references to paper(s) selected
- 2- A fair description of how selected papers show you know how the χ^2 can be helpful in making decisions, but description lacks depth and there is little reference to selected paper(s)
- 4 -A good description of how selected paper(s) show you know how the χ^2 can be helpful in making decisions, with some specific references made to selected paper(s)

8-A complete and thorough description of how the χ^2 can be helpful in making decisions, and there are extensive references to material in the selected papers

b. Describe how your selected paper(s) demonstrated how the χ^2 statistic was not helpful in making a decision

0 – No paper(s) selected

1- Limited, incomplete, or vague description of how selected paper(s) show you know when χ^2 is not helpful in making decisions with no specific references to paper(s) selected

2- A fair description of how selected papers show you know when χ^2 is not helpful in making decisions, but description lacks depth and there is little reference to selected paper(s)

4- A good description of how selected paper(s) show you know when χ^2 is not helpful in making decisions, with some specific references made to selected paper(s)

8- A complete and thorough description of how you know when the χ^2 is not helpful in making decisions, and there are extensive references to material in the selected papers

c. Describe how your selected paper(s) demonstrated the kind of situations in which you felt the χ^2 statistic was most useful in decision making

0 – No paper(s) selected

1- Limited, incomplete, or vague description of how selected paper(s) show you know the kind of situations in which χ^2 is most helpful in decision making with no specific references to paper(s) selected

2- A fair description of how selected papers show you know the kind of situations in which χ^2 is most helpful in decision making, but description lacks depth and there is little reference to selected paper(s)

4 -A good description of how selected paper(s) show you know the kind of situations in which χ^2 is most helpful in decision making, with some specific references made to selected paper(s)

8- A complete and thorough description of how the kind of situations in which χ^2 is most helpful in decision making, and there are extensive references to material in the selected papers

d. Describe why you selected the POW you included in your portfolio

0 – No POW selected

1 – A limited, incomplete, or vague description of why you selected the POW you included in the portfolio with no specific references to any information in the POW

2 – A fair description of why you selected the POW, but lacks depth and there is little reference to specific information in the POW

4– A good description of why you selected the POW with some reference and explanation of specific information in the POW

8– A complete and thorough description of why you selected the POW, with extensive reference to information that is explained in detail

e. Describe how the additional work you included demonstrates your best efforts

0 – No additional paper(s) selected

1 – A limited, incomplete, or vague description of how the additional work demonstrates your best effort

2 – A fair description of how your additional work demonstrates your best efforts, but lacks depth and there is little reference to specific information in the additional work

4– A good description of how additional work demonstrates your best effort with some references to examples in the work that support your definition of “best work”

8– A complete and thorough description of how additional work demonstrates your best effort with extensive references to examples that support your definition of “best work

SELECTED PAPERS FROM SOLVE IT! (24 pts)

1. Two Different Differences Revisited

0 – is not in portfolio

1 – in portfolio, but is incomplete or does not show evidence of a considerable amount of time and effort went into the finished product

2 – in portfolio, is complete with minimal evidence of time and effort

3- in portfolio, is complete with satisfactory evidence of time and effort

4 – in portfolio, is complete with extensive evidence of time and effort

2. Homework 25: Beginning Portfolio Selection

0 – is not in portfolio

1 – in portfolio, but is incomplete or does not show evidence of a considerable amount of time and effort went into the finished product

2 – in portfolio, is complete with minimal evidence of time and effort

3- in portfolio, is complete with satisfactory evidence of time and effort

4 – in portfolio, is complete with extensive evidence of time and effort

3. POW 6: Is There Really a Difference

0 – is not in portfolio

1 – paper(s) in portfolio, but are incomplete or do not show evidence of a considerable amount of time and effort and do not support the fact that you know what In-Out tables are or how to use them

2 –paper(s) in portfolio, are complete with minimal evidence of time and effort with limited support that you know what In-Out tables are or how to use them

3- paper(s) in portfolio, are complete with satisfactory evidence of time and effort with acceptable support that you know what In-Out Tables are or how to use them

4– paper(s)in portfolio, are complete with extensive evidence of time and effort with extensive support form your student-made tables and written descriptions, explanations, and analysis of your In-Out Tables

4. Another Selected POW

0 – is not in portfolio

1 – POW is in portfolio, but is incomplete or had a low overall self-assessment and does not show evidence of a considerable amount of time or effort

2 – POW is in portfolio, is complete with minimal evidence of time and effort and a low overall self-assessment score

3- POW is in portfolio, is complete with satisfactory evidence of time and effort, however not all scoring areas rated high

4 – POW is in portfolio is complete with extensive effort of time and effort and a high overall self-assessment

5. Other High Quality Work

0 – is not in portfolio

1- is in portfolio, but is of poor quality and does not support the concept of “best efforts” or have any reason for its addition to the portfolio

2 – is in portfolio, but is of limited quality with no definite reason for its addition to the portfolio

3 – is in portfolio and is of satisfactory quality with possible reasons for its addition to the portfolio

4 – is in portfolio and is of excellent quality with definite reasons for its addition to the portfolio

The role of the POW Project

1. Describe the project’s role in helping you understand the mathematical ideas of the unit

0 – No description

1 – A limited and/or vague description with no supporting examples

2 – A limited description with few supporting examples

3 – A satisfactory description with several supporting examples, however examples tend to rather general

4 – A detailed description with many specific supporting examples

2. Describe the project’s role in giving you an appreciation for the usefulness or significance of the mathematical ideas in the unit

0 – No description

1 – A limited and/or vague description with no supporting examples

2 – A limited description with few supporting examples

3 – A satisfactory description with several supporting examples, however examples tend to rather general

4 – A detailed description with many specific supporting examples

3. Describe any experiences of working with a partner on an extended project

0 – No description

1 – A limited and/or vague description with no supporting examples

2 – A limited description with few supporting examples

- 3 – A satisfactory description with several supporting examples, however examples tend to rather general
- 4 – A detailed description with many specific supporting examples

4. Describe any other thoughts about your experiences you want to share about working on a project

- 0 – No description
- 1 – A limited and/or vague description with no supporting examples
- 2 – A limited description with few supporting examples
- 3 – A satisfactory description with several supporting examples, however examples tend to rather general
- 4 – A detailed description with many specific supporting examples

SELF-ASSESSMENT OF PORTFOLIO (4 pts)

- a. **Grade and Justify your work using a self-assessment scoring rubric**
 - 0 – Work not graded with rubric
 - 1 – Score values provide with no justification
 - 2 - Score values provide with minimal rationale and many/most values not acceptable based on scoring guide criteria
 - 3 - Scores values provided with fair/good rationales, but some values not acceptable based on scoring guide criteria
 - 4 - Score values provided with strong rationales, all values acceptable based on scoring guide criteria