

APPENDIX

Rubric: Report/Presentation/Video clips on Data Organization/Official Statistics Learning Module in Descriptive Statistics

<i>Criteria</i>	<i>Needs Improvement/1</i>	<i>Satisfactory/2</i>	<i>Good/3</i>	<i>Excellent/4</i>	<i>Score</i>
Significance	Project is not significant; Demonstrates no evidence that the topic was selected, researched, and designed	Project is somewhat significant; Demonstrates limited evidence that the topic was selected, researched, and designed	Project is significant; Demonstrates some evidence that the topic was selected, researched, and designed	Project is significant; Demonstrates evidence that the topic was selected, researched, and designed well	/4
Content	Demonstrates minimal understanding of statistical concepts and skills with so many errors	Demonstrates some understanding of statistical concepts and skills with minimal errors	Demonstrates understanding of statistical concepts and skills with one or two errors	Demonstrates in-depth understanding of statistical concepts and skills with no error	/4
Appropriateness of descriptive statistics	Inaccurate presentation of data using inappropriate tables/graphs/numerical measures	Accurate presentation of data using inappropriate tables/graphs/numerical measures	Accurate presentation of data using appropriate tables/graphs/numerical measures without proper labels/titles	Accurate presentation of data using appropriate tables/graphs/numerical measures with proper labels/titles	/4
Extensiveness of descriptive statistics	Presentation of data uses minimal number of graphs, tables, and numerical measures discussed	Presentation of data uses fewer than 3 kinds of graphs, one-way table, two-way table, and not all numerical measures discussed	Presentation of data uses at least 3 kinds of graphs, one-way table, two-way table, and all numerical measures discussed with incorrect or missing interpretations	Presentation of data uses at least 3 kinds of graphs, one-way table, two-way table, and all numerical measures discussed with correct interpretations	/4

<i>Criteria</i>	<i>Needs Improvement/1</i>	<i>Satisfactory/2</i>	<i>Good/3</i>	<i>Excellent/4</i>	<i>Score</i>
Organization	Presented concepts/skills which were poorly organized and lacked supporting evidence	Presented concepts/skills which were minimally organized with minimal supporting ideas	Presented concepts/skills which were logically organized with some supporting ideas	Presented concepts/skills which were logically organized with complete supporting ideas	/4
Integration	Demonstrates no integration with other fields or disciplines	Demonstrates limited integration with other fields or discipline	Demonstrates integration with other fields or discipline	Demonstrates integration with other fields or discipline and has long-term impact	/4
Use of resources/visual aids	Demonstrates no use of quality resources and materials	Demonstrates limited use of quality resources and materials	Demonstrates some uses of quality resources and materials	Demonstrates appropriate uses of quality resources and materials	/4
Overall presentation and creativity	Overall presentation is neither creative nor artistic with no innovative ideas	Overall presentation shows limited effort in its creativity and artistic value with limited innovative ideas	Overall presentation shows some effort in its creativity and artistic value with some innovative ideas	Overall presentation is creative and artistic with innovative ideas	/4
TOTAL					/32

Rubric: Games of Chance Exhibit

<i>Criteria</i>	<i>Needs Improvement/1</i>	<i>Satisfactory/2</i>	<i>Good/3</i>	<i>Excellent/4</i>	<i>Score</i>
Accuracy of probabilities calculated	Probabilities are calculated incorrectly	Probabilities are calculated with some errors	Probabilities are calculated correctly but not explained well	Probabilities are calculated and explained correctly with no error	/4
Use of resources/ visual aids	Demonstrates no use of quality resources and materials	Demonstrates limited use of quality resources and materials	Demonstrates some uses of quality resources and materials	Demonstrates appropriate uses of quality resources and materials	/4
Overall presentation and creativity	Overall presentation is neither creative nor artistic with no innovative ideas	Overall presentation shows limited effort in its creativity and artistic value with limited innovative ideas	Overall presentation shows some effort in its creativity and artistic value with some innovative ideas	Overall presentation is creative and artistic with innovative ideas	/4
Mechanics and organization	Presented no background and unorganized mechanics of the game	Presented background of the game and mechanics which are not logically organized	Presented background of the game and mechanics which are logically organized	Presented background of the game and mechanics which are logically organized and understood by every participant	/4
TOTAL					/16

Rubric: Movie /Article/Book Review/Game Critique

<i>Criteria</i>	<i>Needs Improvement/1</i>	<i>Satisfactory/2</i>	<i>Good/3</i>	<i>Excellent/4</i>	<i>Score</i>
Organiza- tion	Manuscript and the flow of information are disorganized	Manuscript shows organization but has several portions that are not relevant	Manuscript shows organization but lacks coherence	Manuscript is well-organized and structured	/4
Statistical accuracy	Statistical explanations or facts presented/cited are all misconceptions	Statistical explanations or facts presented/cited show a significant number of inaccuracies	Statistical explanations or facts presented/cited show some inaccuracies	Statistical explanations or facts presented are 100% accurate	/4
Presenta- tion of ex- planations	Explanations presented do not in any way address the problem/topic	Explanations presented only partially addressed the problem/topic	Explanations are clear, valid, and convincing but have several flaws	Explanations are clear, valid, and convincing	/4
TOTAL					/12

Rubric: Portfolio for Statistical Analysis

<i>Criteria</i>	<i>Needs Improvement/1</i>	<i>Satisfactory/2</i>	<i>Good/3</i>	<i>Excellent/4</i>	<i>Score</i>
Significance	Project is not significant; Demonstrates no evidence that the topic was selected, researched, and designed	Project is somewhat significant; Demonstrates limited evidence that the topic was selected, researched, and designed	Project is significant; Demonstrates some evidence that the topic was selected, researched, and designed	Project is significant; Demonstrates evidence that the topic was selected, researched, and designed well	/4
Content	Demonstrates minimal understanding of statistical concepts and skills with so many errors	Demonstrates some understanding of statistical concepts and skills with minimal errors	Demonstrates understanding of statistical concepts and skills with one or two errors	Demonstrates in-depth understanding of statistical concepts and skills with no error	/4
Accuracy of statistical analysis	Incorrect use of inferential statistical analysis	Some statistical analyses are not correct	All statistical analyses are correct with missing or lacking interpretations	All statistical analyses are accurate with correct interpretations	/4
Extensiveness of statistical analysis	No estimation procedure/ statistical test is included in the analysis	Only one estimation procedure/ statistical test is included in the analysis	At least 2 estimation procedures are presented or at least 2 statistical tests are included in the analyses	At least 2 estimation procedures are presented and at least 2 statistical tests are included in the analyses	/4
Organization	Presented concepts/ skills which were poorly organized and lacked supporting evidence	Presented concepts/skills which were minimally organized with minimal supporting ideas	Presented concepts/skills which were logically organized with some supporting ideas	Presented concepts/ skills which were logically organized with complete supporting ideas	/4

<i>Criteria</i>	<i>Needs Improvement/1</i>	<i>Satisfactory/2</i>	<i>Good/3</i>	<i>Excellent/4</i>	<i>Score</i>
Integration	Demonstrates no integration with other fields or disciplines	Demonstrates limited integration with other fields or discipline	Demonstrates integration with other fields or discipline	Demonstrates integration with other fields or discipline and has long-term impact	/4
Use of resources/ visual aids	Demonstrates no use of quality resources and educational materials	Demonstrates limited use of quality resources and educational materials	Demonstrates some uses of quality resources and educational materials	Demonstrates appropriate uses of quality resources and educational materials	/4
Overall presentation and creativity	Overall presentation is neither creative nor artistic with no innovative ideas	Overall presentation shows limited effort in its creativity and artistic value with limited innovative ideas	Overall presentation shows some effort in its creativity and artistic value with some innovative ideas	Overall presentation is creative and artistic with innovative ideas	/4
TOTAL					/32

Rubric: Group Member Assessment

<i>Criteria</i>	<i>Needs Improvement/1</i>	<i>Satisfactory/2</i>	<i>Good/3</i>	<i>Excellent/4</i>	<i>Score</i>
Contribution	Group member contributions were insignificant or nonexistent	Group member contributed little toward the project	Group member contributed significantly, but other members clearly contributed more	Group member completed an equal share of work and strived to maintain that equity throughout the project	/4
Dependability	Group member was undependable, forcing other members to take up the slack	Group member contributions were regularly late and often missed scheduled group work	Group member contributions were mostly punctual and almost always appeared for group work	Group member provided contributions with 100% punctuality and always appeared for group work	/4
Efficiency	Work performed was completely ineffective and useless in the final product	Work performed was inappropriate and mostly useless toward the final product	Participation was inefficient and thus contributions were less than expected	Work performed was very useful and contributed significantly to the final product	/4
Attitude	Group member often complained and generally demoralized the group	Group member sometimes complained and was somewhat of a burden	Group member didn't complain but offered little enthusiasm	Group member was very positive and pleasant to work with	/4
Quality of work	Group member's work product was routinely of poor quality and lacked a sense of pride	Group member's work product was frequently unpolished and/or incomplete	Group member's work product was sometimes unpolished and/or incomplete	Group member's work product was of extremely high quality	/4

Cooperation	You would never work with this person again under any circumstances	You would prefer to never work in a group setting with this person again	You would work with this person again but would choose someone else if given the opportunity	This person was an excellent partner, and you would eagerly work with him/her again	/4
TOTAL					/24



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