Quantitative Reasoning Outcome:
Mount graduates will be able to apply college-level mathematical reasoning to analyze and explain real-world issues.

**OVERALL QUANTITATIVE REASONING SKILLS (N=79)**

- **92%** Are proficient at competence in applied analytic skills
- **85%** Are proficient at mathematical problem-solving skills
- **90%** Are proficient at computation and arithmetic operations
- **94%** Are proficient at algebraic, trigonometric, or calculus operations that involve levels of abstraction

**Overall**

- **78%** of MSMU students are FULLY PROFICIENT with Quantitative Reasoning criteria
- **19%** of MSMU students are PARTIALLY PROFICIENT with Quantitative Reasoning criteria
- **3%** of MSMU students are at the beginning or developing stages of mastering proficiency with Quantitative Reasoning criteria

**Freshman/Sophomore QUANTITATIVE REASONING SKILLS (N=60)**

- **92%** Are proficient at competence in applied analytic skills
- **83%** Are proficient at mathematical problem-solving skills
- **90%** Are proficient at computation and arithmetic operations
- **93%** Are proficient at algebraic, trigonometric, or calculus operations that involve levels of abstraction

**Overall Frosh/Soph**

- **78%** FULLY PROFICIENT
- **19%** PARTIALLY PROFICIENT
- **3%** BEGINNING/DEVELOPING

**Proficiency Groupings**
- Fully Proficient: Rubric score of 3 or higher on each of the four criteria
- Partially Proficient: Rubric score of 3 or higher on at least 1 of the four criteria
- Beginning/Developing: Rubric score under minimum proficiency on all criteria

**Achievement Key**
- **Exceeded Goal**: Students exceeded the performance goal for full proficiency
- **Met Goal**: Students met the performance goal for full proficiency
- **Partially Met Goal**: Students met some of the criteria for the performance goal
- **Striving to Meet Goal**: Students did not meet the performance goal for proficiency

**Achievement Key**
- Exceeded Goal: Students exceeded the performance goal for full proficiency
- Met Goal: Students met the performance goal for full proficiency
- Partially Met Goal: Students met some of the criteria for the performance goal
- Striving to Meet Goal: Students did not meet the performance goal for proficiency
Spring 2021
Quantitative Reasoning Results

**Junior/Senior QUANTITATIVE REASONING SKILLS (N=19)**
- 95% are proficient at competence in applied analytic skills
- 85% are proficient at mathematical problem-solving skills
- 85% are proficient at computation and arithmetic operations
- 95% are proficient at algebraic, trigonometric, or calculus operations that involve levels of abstraction

Junior/Senior Fully Proficient
Rubric score of 3 or higher on each of the four criteria

Junior/Senior Partially Proficient
Rubric score of 3 or higher on at least 1 of the four criteria

**FIRST GENERATION QUANTITATIVE REASONING SKILLS (N=46)**
- 93% are proficient at competence in applied analytic skills
- 89% are proficient at mathematical problem-solving skills
- 91% are proficient at computation and arithmetic operations
- 96% are proficient at algebraic, trigonometric, or calculus operations that involve levels of abstraction

First Generation Fully Proficient
Rubric score of 3 on each of the four criteria

First Generation Partially Proficient
Rubric score of 3 on at least 1 of the four criteria

**Overall Junior/Senior**
- 79% FULLY PROFICIENT
- 0% BEGINNING/DEVELOPING
- 21% PARTIALLY PROFICIENT

**Overall First Generation**
- 83% FULLY PROFICIENT
- 0% BEGINNING/DEVELOPING
- 17% PARTIALLY PROFICIENT

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1. Continue to offer alignment workshops for the ILO/LACE outcomes OR create a recording that can be sent each year to instructors teaching Quantitative Reasoning courses.

2. Continue to offer norming sessions for faculty to use prior to scoring assignments.

3. The faculty made a few minor adjustments to the rubric in order to clarify the levels for some of the criteria. Also the last two criteria are very similar, so the group combined them and separated out checking the validity of the answer.