



# Essential Skill 3:

Apply quantitative reasoning skills to analyze and solve numerical problems.

**Graduates will hone their ability to provide solutions guided by data and choose the best methodologies for arriving at informed conclusions.**

<b>Benchmark</b> College entry	<b>Milestone</b> End of 2 years of college	<b>Capstone</b> Bachelor's degree completion
Identifies key information from data presented in multiple forms, including equations, graphs, and tables.	Illustrates contextual data using a variety of models, including equations, graphs, and tables.	Analyzes real-world data (e.g. case studies, simulations, and experiments) using appropriate quantitative and qualitative strategies.
Performs basic arithmetic operations on real numbers within complex order of operations including the calculation of percentages and basic statistics.	Applies percentages and statistics to describe contextual data.	Differentiates between appropriate and inappropriate uses of statistics within real-world contexts in the presentation of arguments.
Demonstrates relevance of quantitative data in identifying problems and related assumptions.	Utilizes a variety of quantitative strategies to articulate assumptions and solve problems.	Applies quantitative reasoning to real-world scenarios to reach well-reasoned and data-informed conclusions.