



UNIVERSITY OF
SAN FRANCISCO

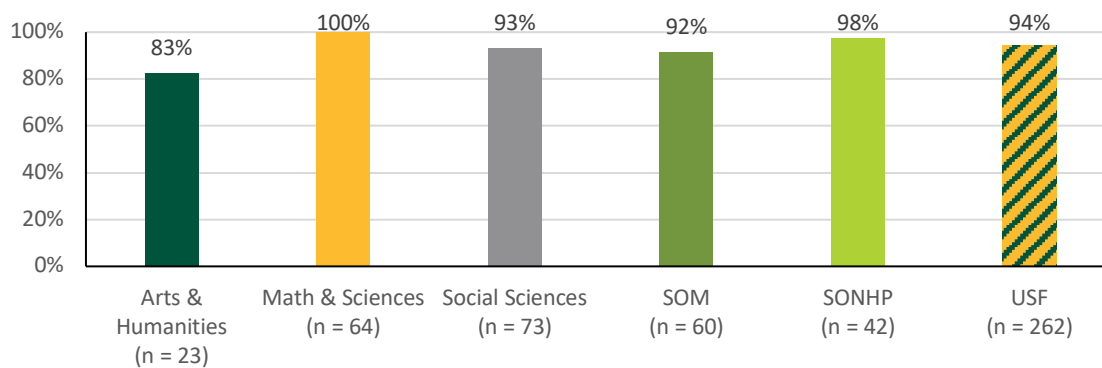
Office of Assessment
and Accreditation Support

Quantitative Reasoning Core Graduation Competency Content and Item Analysis Report 2022

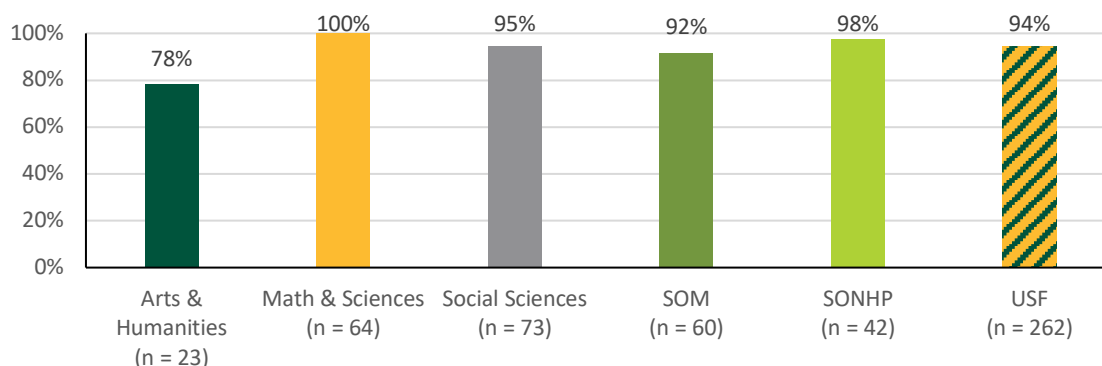
Questions 1–5

The first five questions tested students' ability to identify basic statistical terms: mean (Q1), median (Q2), mode (Q3), standard deviation (Q4), and correlation coefficient (Q5).

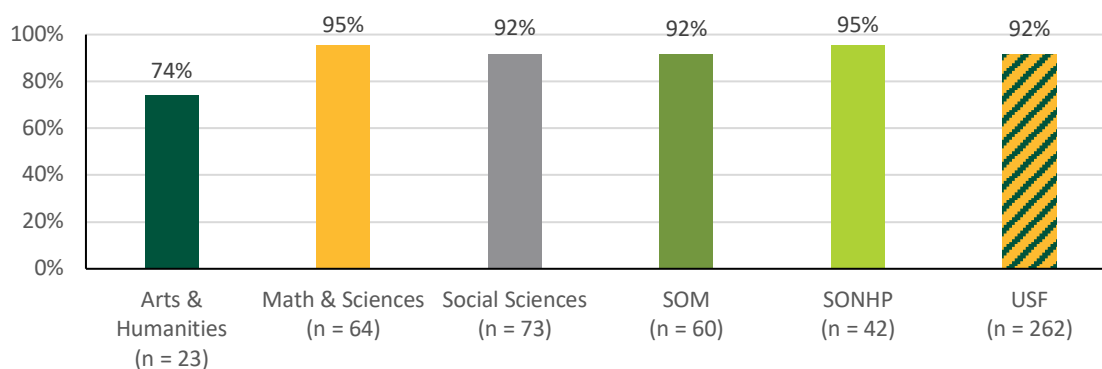
Q1. 94% of students correctly answered this question. Math & Sciences students earned the highest proportion of correct answers (**100%**) and Arts & Humanities students earned the lowest proportion of correct answers (**83%**).



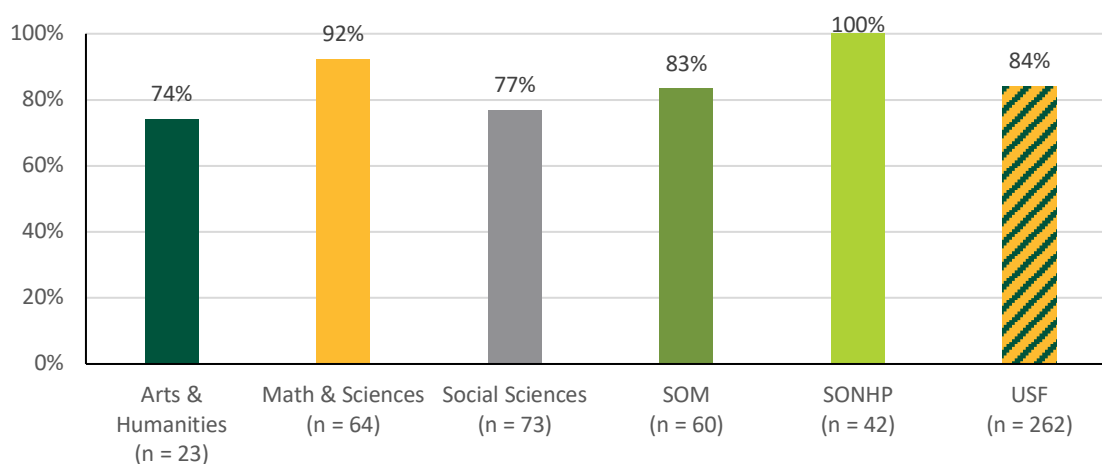
Q2. 94% of students correctly answered this question. Math & Sciences students earned the highest proportion of correct answers (**100%**). Arts & Humanities students earned the lowest proportion of correct answers (**78%**).



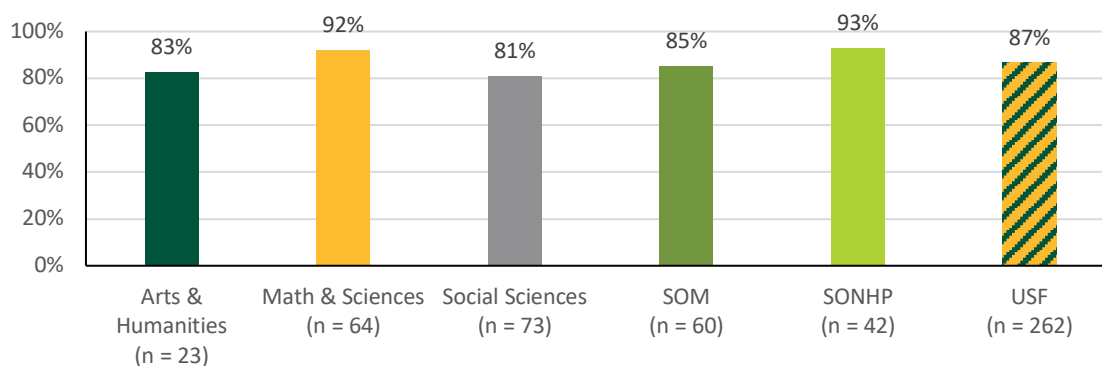
Q3. 92% of students correctly answered this question. Math & Sciences students earned the highest proportion of correct answers (**95%**) and Arts & Humanities students earned the lowest proportion of correct answers (**74%**).



Q4. 84% of students correctly answered this question. School of Nursing & Health Professions students earned the highest proportion of correct answers (**100%**) and Arts & Humanities students earned the lowest proportion of correct answers (**74%**).



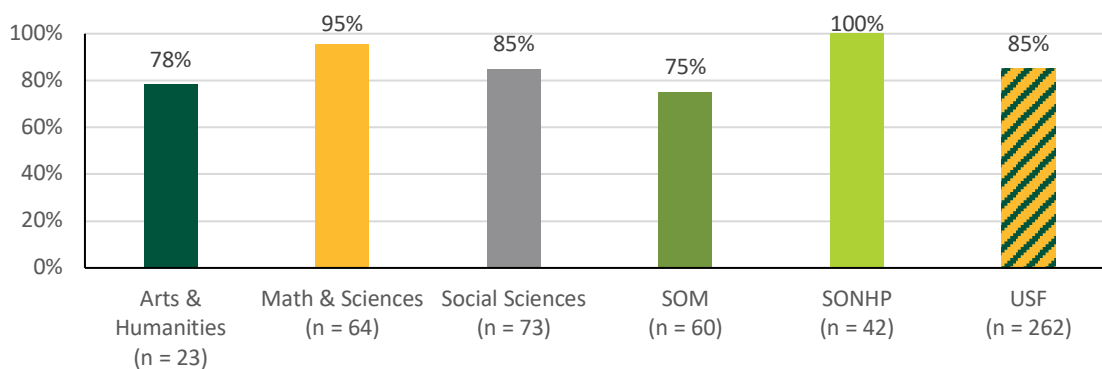
Q5. 87% of students correctly answered this question. School of Nursing & Health Professions students earned the highest proportion of correct answers (**93%**) and Social Sciences students earned the lowest proportion of correct answers (**81%**).



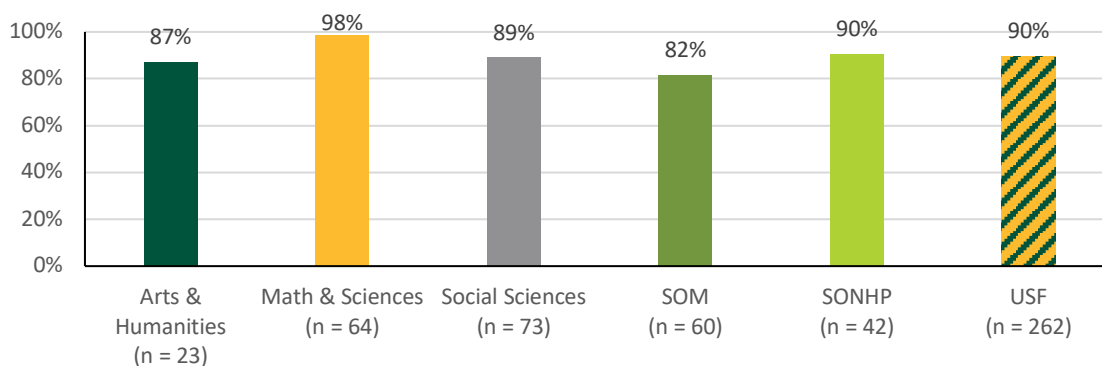
Questions 6 - 9

The next four items tested students' understanding of basic statistics (mean, frequency distribution), and the ability to apply this knowledge to a histogram, and draw accurate conclusions.

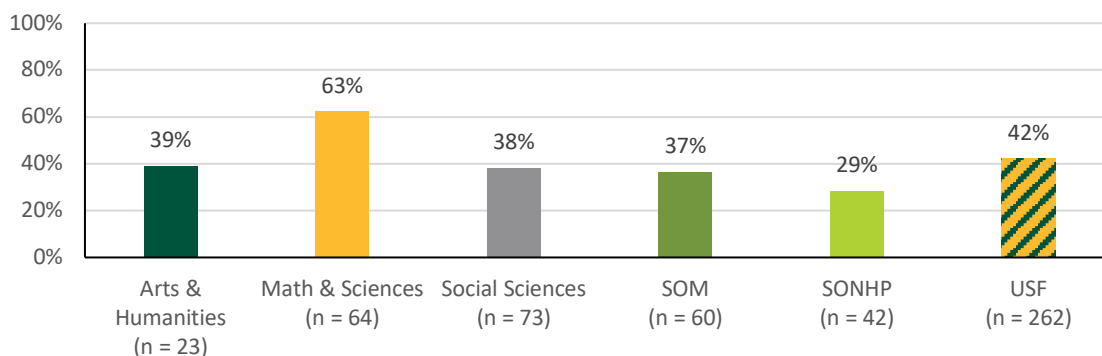
Q6. 85% of students correctly answered this question. School of Nursing & Health Professions students earned the highest proportion of correct answers (**100%**). School of Management students earned the lowest proportion of correct answers (**75%**).



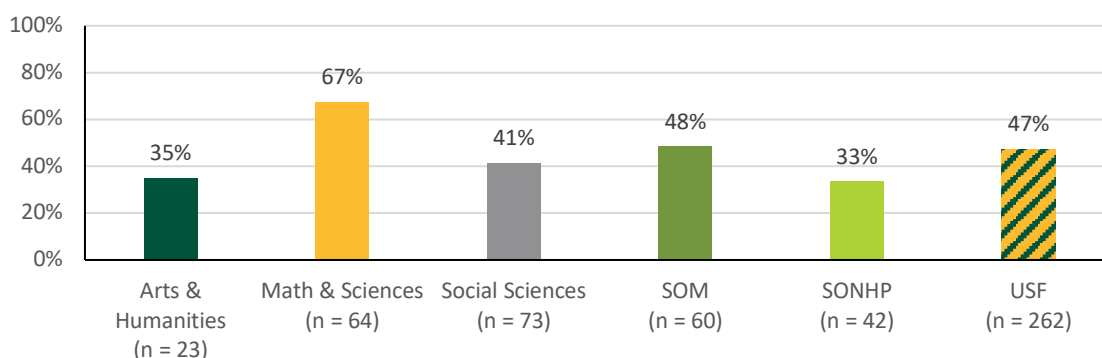
Q7. 90% of students correctly answered this question. Math & Sciences students earned the highest proportion of correct answers (**98%**) and School of Management students earned the lowest proportion of correct answers (**82%**).



Q8. 42% of students correctly answered this question. Math & Science students earned the highest proportion of correct answers (**63%**) and School of Nursing & Health professions students earned the lowest proportion of correct answers (**29%**).

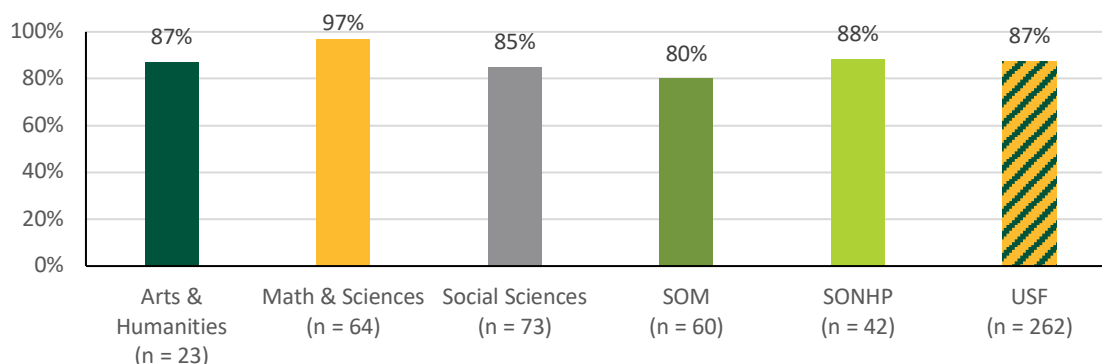


Q9. 47% of students correctly answered this question. Math & Sciences students earned the highest proportion of correct answers (**67%**) and School of Nursing & Health Professions students earned the lowest proportion of correct answers (**33%**).

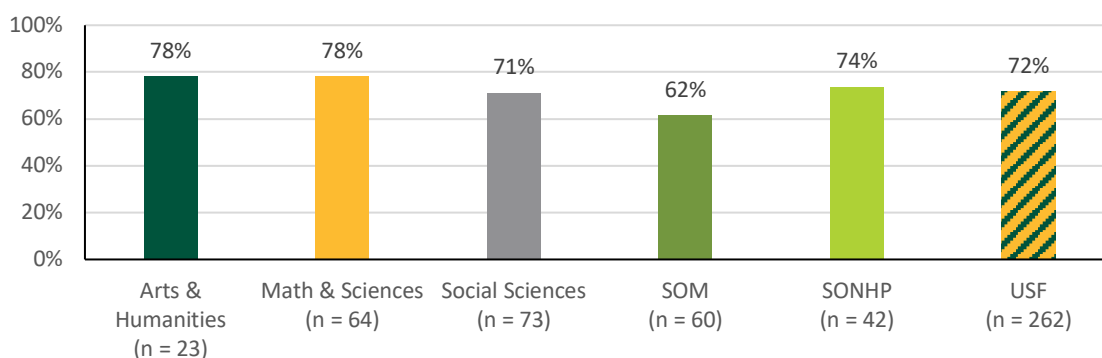


Questions 10-11. These questions tested students' ability to identify functional growth as it applies to environmental atmospheric CO₂ levels (depicted as figures) and draw accurate conclusions based on these figures.

Q10. 87% of students correctly answered this question. Math & Sciences students earned the highest proportion correct answers (**97%**) and School of Management students earned the lowest proportion of correct answers (**80%**).

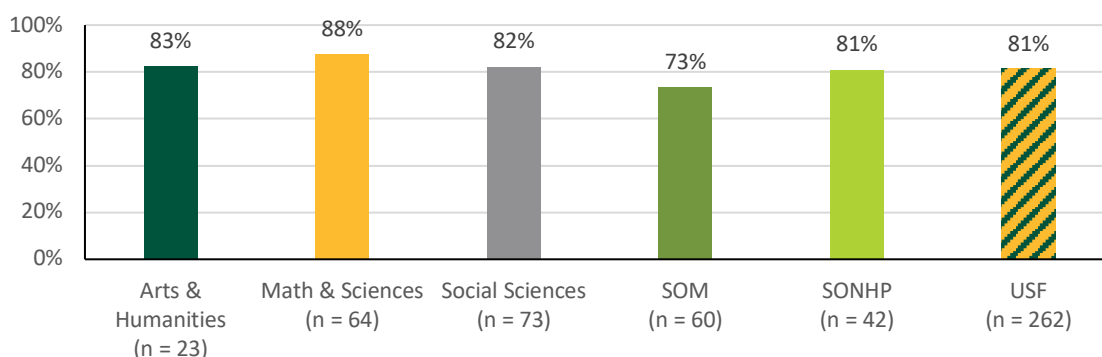


Q11. 72% of students correctly answered this question. Arts & Humanities and Math & Sciences students each earned the highest proportion of correct answers (**78%**) and School of Management students earned the lowest proportion of correct answers (**62%**).

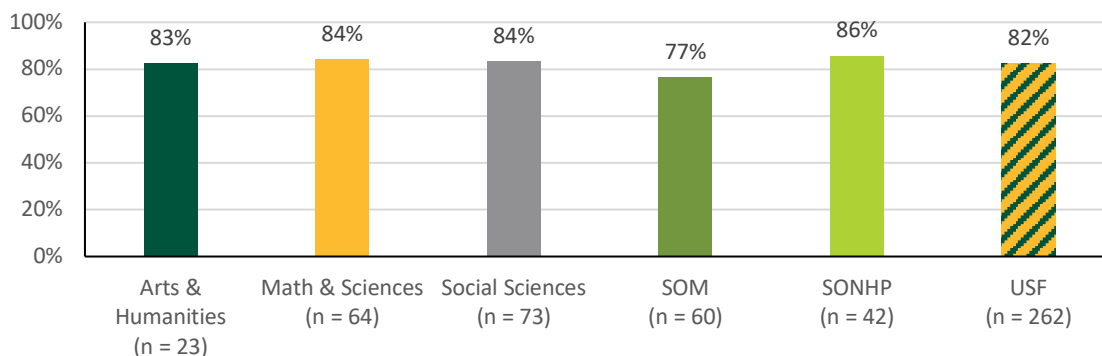


Questions 12 – 13. These two questions tested students' ability to identify components of a table that outline sexual health data and explain the interrelations from the data depicted in that table.

Q12. 81% of students correctly answered this question. Math & Sciences students earned the highest proportion of correct answers (**88%**) and School of Management students earned the lowest proportion of correct answers (**73%**).

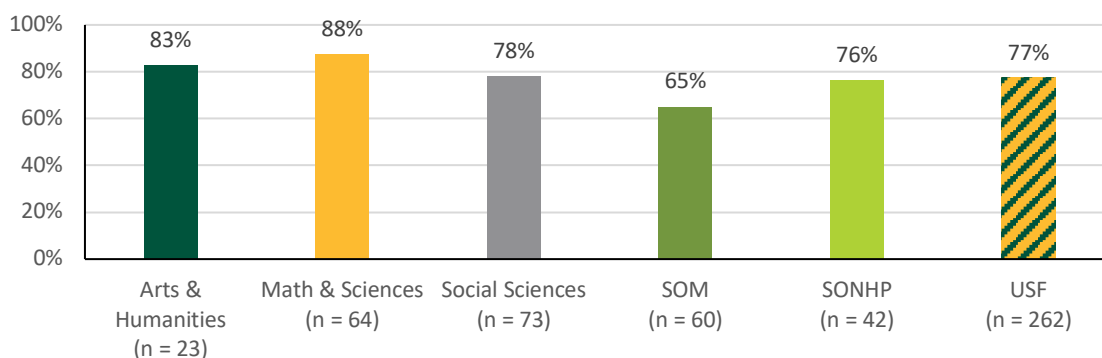


Q13. 82% of students correctly answered this question. School of Nursing & Health Professions students earned the highest proportion of correct answers (**86%**) and School of Management students earned the lowest proportion of correct answers (**77%**).



Questions 14-15. These two questions presented students with a pie chart that outlined a couple’s budget, and tested students’ ability to make judgements and draw conclusions to a specified problem based on the information communicated in the pie chart.

Q14. 77% of students correctly answered this question. Math & Sciences students earned the highest proportion of correct answers (88%) and School of Management students earned the lowest proportion of correct answers (65%).



Q15. 54% of students correctly answered this question. Arts & Humanities students earned the highest proportion of correct answers (65%) and School of Nursing & Health Professions students earned the lowest proportion of correct answers (43%).

