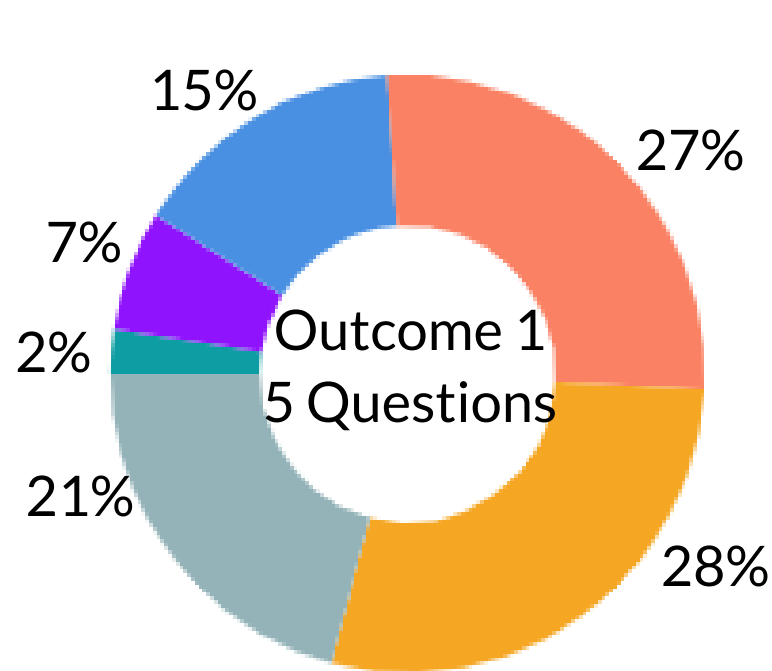


General Education Assessment 2016-2017

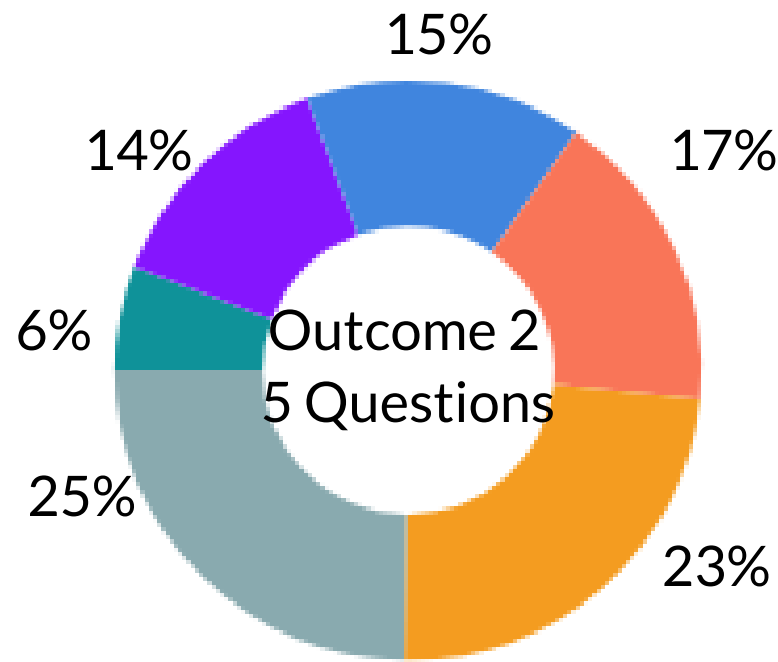
Mathematics (Quantitative Reasoning)

GE Math Learning Outcomes

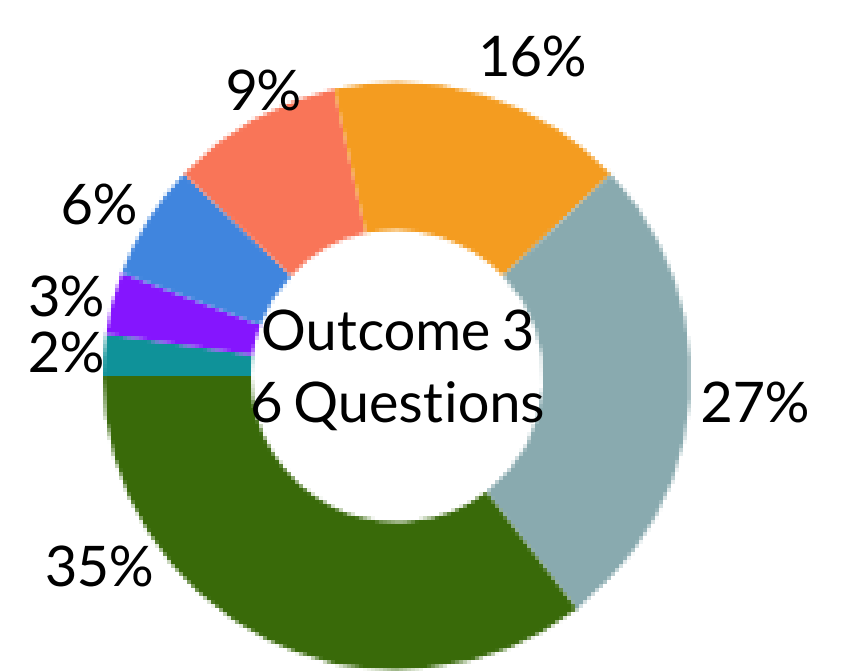
i Only the scores of the 16 questions mapped to three GE Math learning outcomes were used.



Correctly use / interpret Mathematical notation and terminology to solve problems.



Apply general concepts and principles of Mathematics to solve various kinds of problems.



Model/solve problems related to applications that describe various phenomena in nature and society.

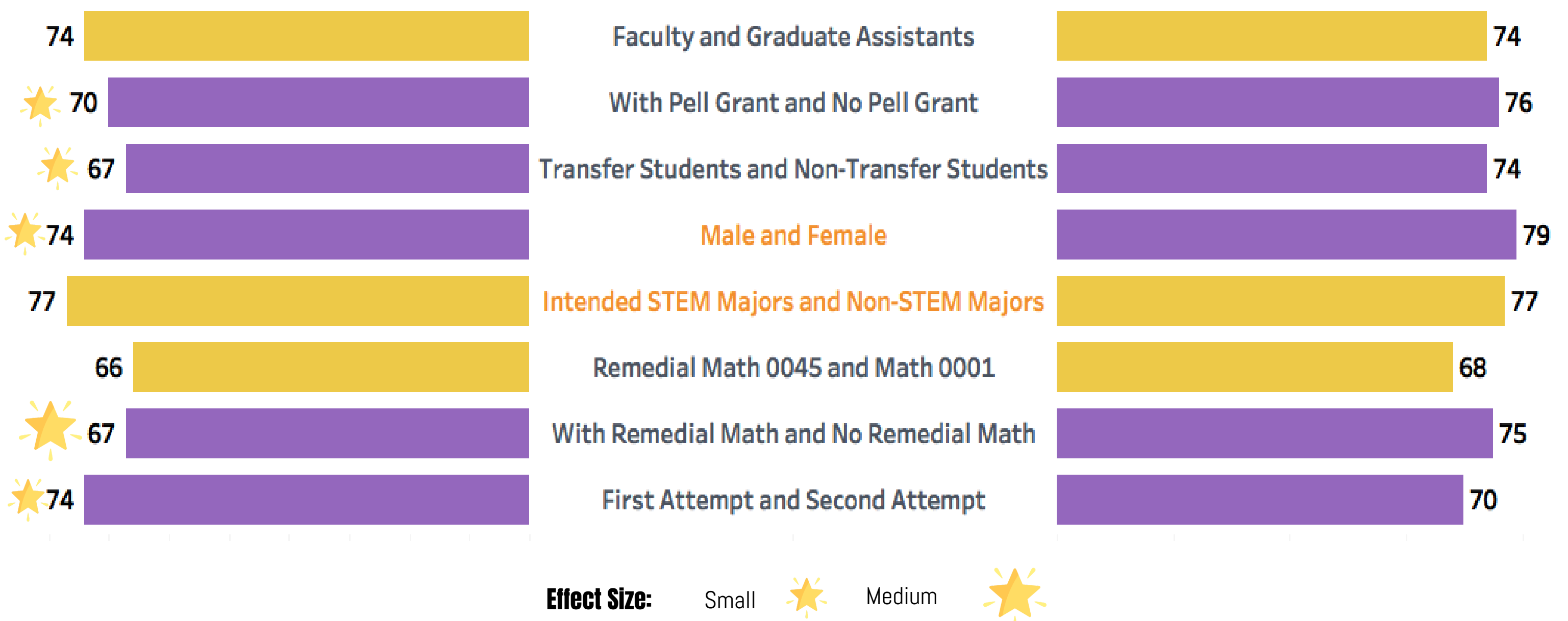
of Correct Responses: 0 (teal), 1 (purple), 2 (blue), 3 (red), 4 (orange), 5 (light blue), 6 (green)

Percentage of Correct Responses for Each GE Math Learning Outcome (N = 1,658)

Group Comparisons

i The total final exam scores were used to compare the performance of various groups of students. A statistically significant difference means the difference is not likely to have happened by chance.

Type: Average Exam Score (dark grey), Median Exam Score (orange)
 Result (Significance Level: .05): Not Statistically Significant (yellow), Statistically Significant (purple)



Mathematics (Quantitative Reasoning) 2016-2017

Multiple Regression Results

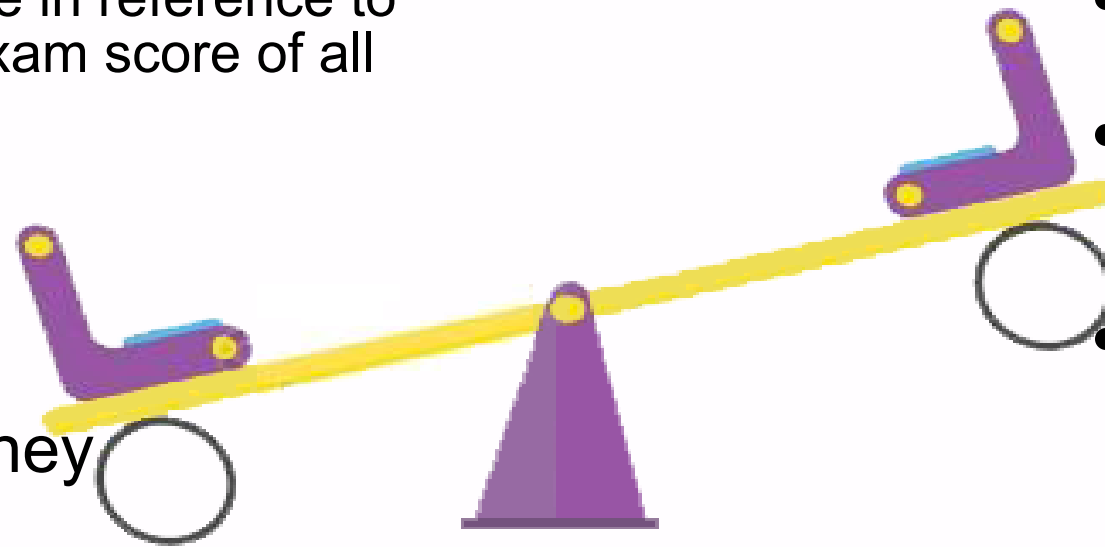
i The total final exam scores were used.
Comparisons were made in reference to the weighted average exam score of all students in the sample.

Students scored higher if they

- were taught by instructor 5
- had not taken remedial Math
- were not Pell Grant recipients
- came from out of state or urban areas
- had waited one semester up to one year to take the course for the first time
- had higher unweighted HS GPAs

Students scored lower if they

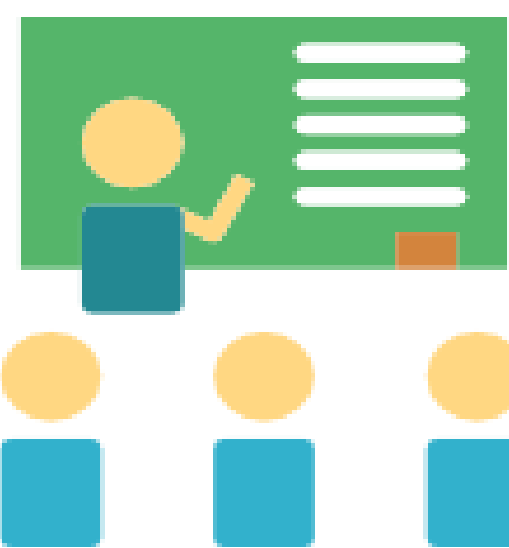
- were taught by instructor 4 or 7
- took remedial Math 0045
- were Pell Grant recipients
- came from rural areas
- were sophomores
- or had waited more than one year to take Math 1065 for the first time



Over one-third of the students taking the final exam did not pass the final exam.

(70 out of 100 = Passing)

i Rural students were defined as students who came from Tier 1 and Tier 2 counties in NC. The Tier designations data we used were from 2016: <https://www.nccommerce.com/research-publications/incentive-reports/2016-county-tier-designations>



In total, 1,659 students took the final exam in Math 1065 in the 2016-17 academic year.

Sample Profile

