

Quantitative Literacy Assessment Test Summary

The test was given to a total of 359 students during the beginning of the semester of to classes who were volunteered by their professors. This gave us a good cross section of students by class years, and a reasonable assortment of majors, but some majors were under-represented since they only were participant because of being in a Core section, minor, or elective class.

There were 29 multiple choice questions. The questions were designed to test concepts in six of the seven designated areas that the committee had earlier reported to the faculty as key areas of quantitative literacy listed below

(see <http://www.saintjoe.edu/~karend/SJCQuantLit/AcademicCabinetProposal.pdf>)

A. Proficiency with numbers, quantitative values and estimation.

B. Data interpretation skills.

C. Statistical interpretation skills.

D. Proficiency with basic financial data and tools.

E. Probability reasoning skills.

*F. Proficiency with technology used for quantitative thinking and analysis. (Not tested)

G. Critical thinking and logical reasoning skills.

The overall average of the students on the test was 49% with the following breakdown by topic category

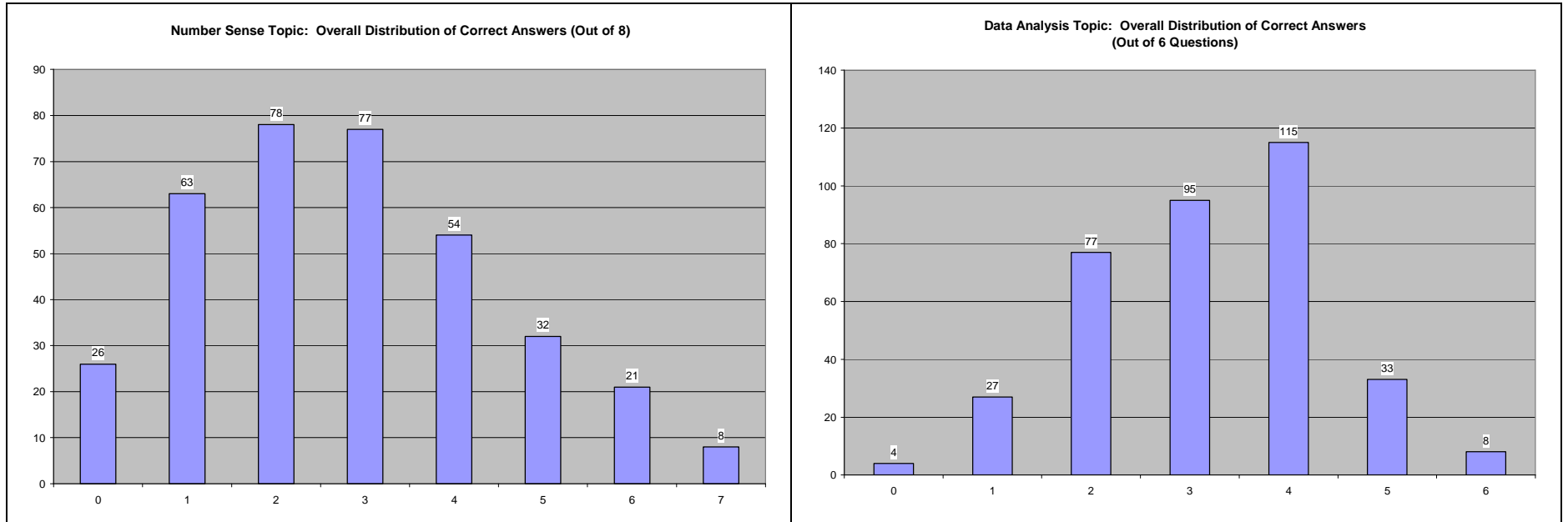
A: Number sense	40%
B: Data	53%
C: Stats	58%
D: Bus. Finance	63%
F: Probability	63%
G: Logic	21%

Results by class year and the six topics:

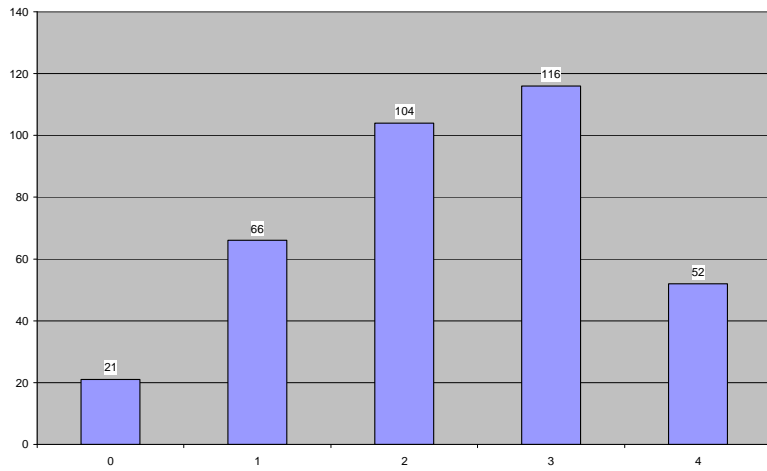
<i>Statistics by Class Year</i>	<i>Number of Tests</i>	<i>Overall % Average</i>	<i>Average Correct</i>	<i>Num</i>	<i>Data</i>	<i>Stats</i>	<i>Bus.</i>	<i>Prob.</i>	<i>Logic</i>
				<i>Sense % Correct</i>	<i>% Correct</i>	<i>% Correct</i>	<i>Fin.% Correct</i>	<i>% Correct</i>	<i>% Correct</i>
Freshmen	116	48%	14	40%	52%	58%	61%	63%	20%
Sophomores	78	46%	13	39%	47%	52%	61%	58%	21%
Juniors	94	50%	15	42%	56%	60%	65%	64%	19%
Seniors	65	52%	15	40%	55%	60%	67%	71%	26%
Other	5	49%	14	34%	57%	60%	68%	55%	30%

The lowest scores were in the Logic and Critical Thinking category, and then next lowest was overall Number Proficiency (Sense).

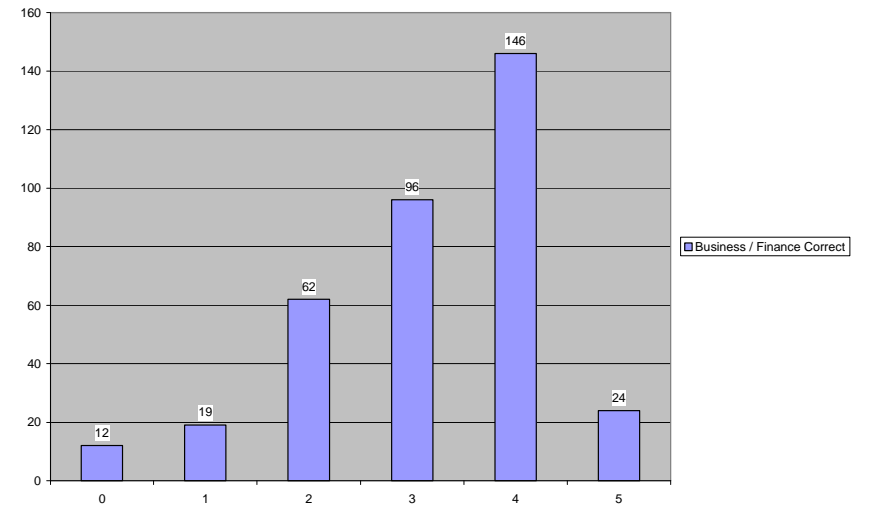
The histograms below give distributions of number correct on each topic category:



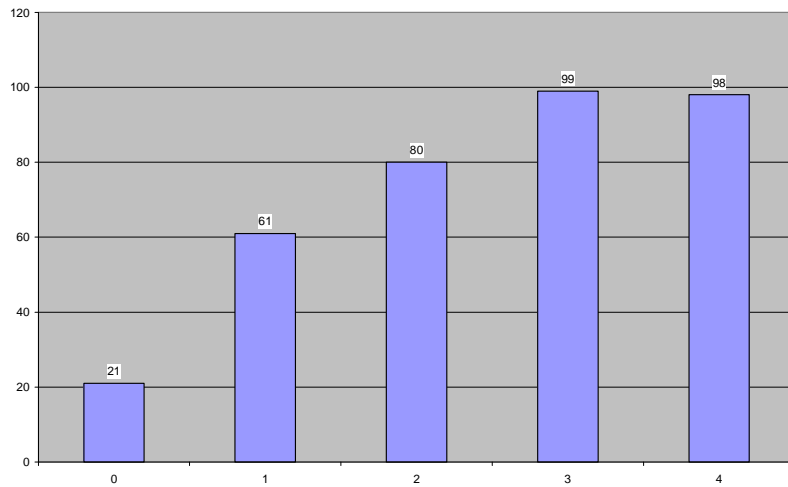
Statistics Topic: Overall Correct (Out of 4)



Business / Finance Topic: Overall Correct (Out of 5)



Probability Topic: Overall Distribution Correct (Out of 4)



Logic Topic: Overall Distribution of Correct Answers (Out of 4)

