Quantitative Reason SP 20
No. of responses = 352

ROSE STATE COLLEGE

Survey Results

1. About you

1.1) Sex

		n=348
Male	116	
Female	232	

1.2) What is your age group?

		n=347
19 or younger	97	
20-24	99	
25-29	39	
30-34	35	
35-39	28	
40 or older	49	

1.3) What is your race? Mark one or more boxes (multiple boxes if two or more races).

		n=352
White	241	
Black or African American	73	
American Indian or Alaska Native	40	
Asian	15	
Hispanic/Latino	35	
Native Hawaiian and Other Pacific Islander	4	
Other	3	

1.6) Which do you have?

		n=350
GED	31	
High School Diploma	307	
Neither	12	
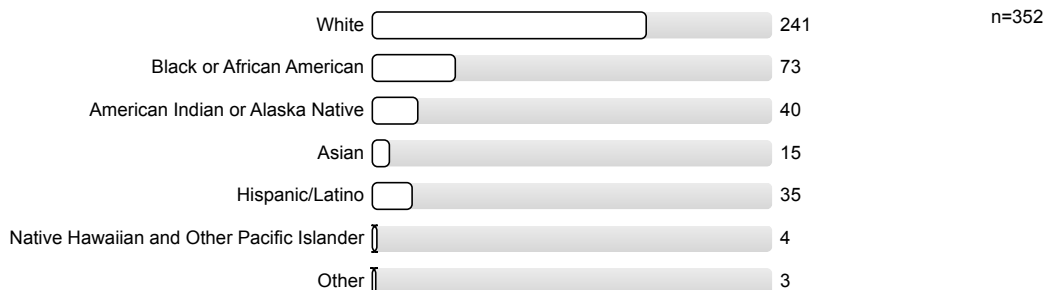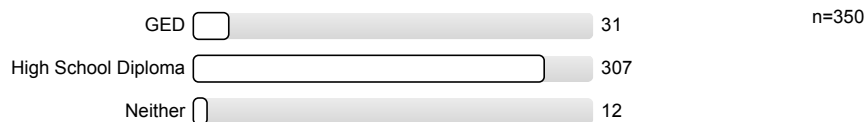
1.7) Which Academic Division is associated with your major?

		n=350
Business & Information Technology	84	
Engineering & Science	39	
Humanities	36	
Social Sciences	62	
Health Sciences	104	
Unknown/Undecided	25	
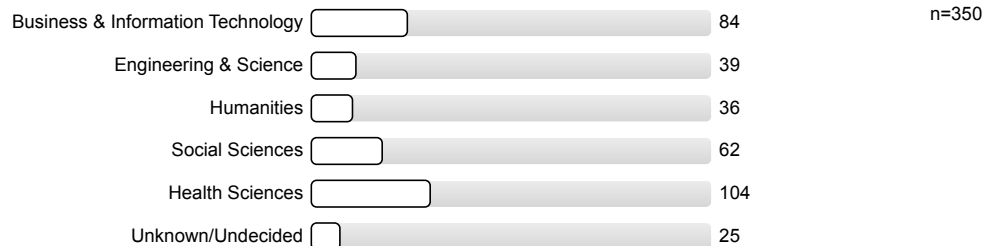
1.8) Total college credit hours completed

0 (first semester student)	27
1-15	67
16-30	69
31-45	65
46-60	56
61 or more	64

n=348

1.9) When do you expect to graduate from RSC?

This semester	52
Next semester	41
1 - 2 years	148
2 - 3 years	64
more than 3 years	17
Non-degree seeking	23

n=345
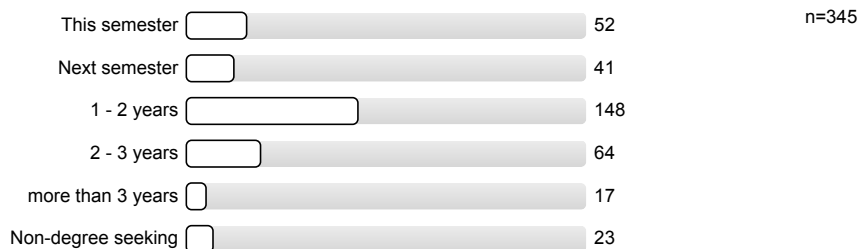
1.10) What is the highest high school math course you completed, with a C or better?

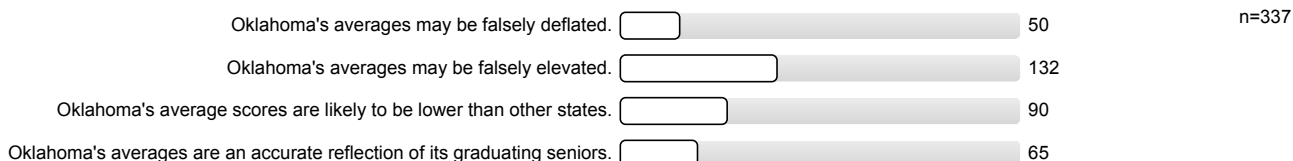|	
Algebra I	25
Geometry	22
Intermediate Algebra	7
Algebra II	90
Statistics	1
College Algebra	49
Algebra III/Trigonometry/Pre-Calculus	87
Calculus or Above	30
Unknown/None	40

n=351
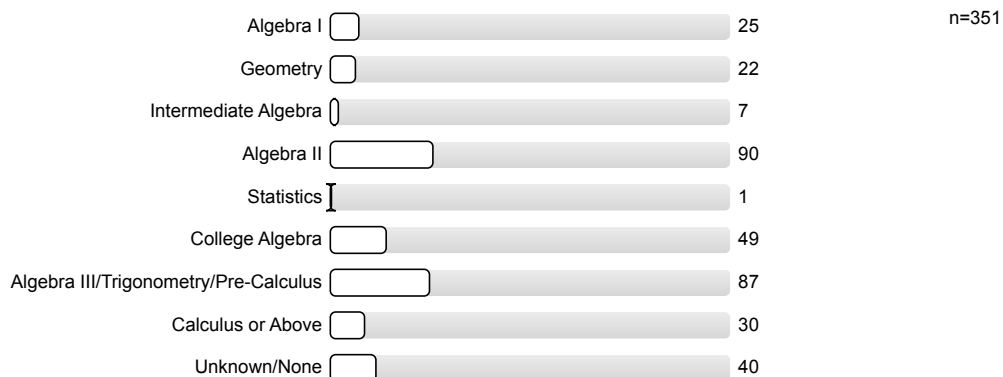
1.11) If you have taken a college math course, what is the highest level course you have completed with a C or better?

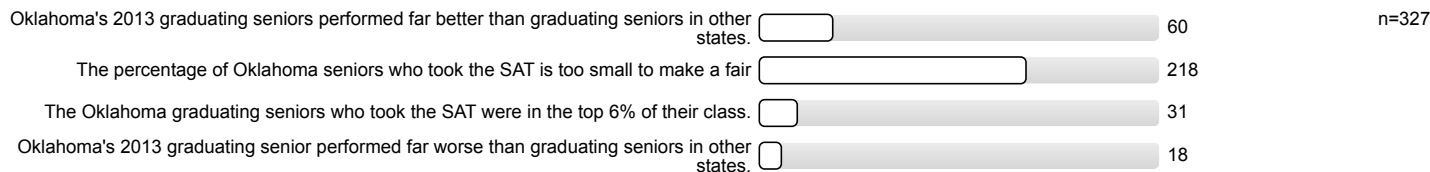|	
Foundations of Math/Math Literacy	36
Algebraic Literacy	37
College Algebra/General College Math/Functions	160
Statistics/Trigonometry	12
Calculus	24

n=269
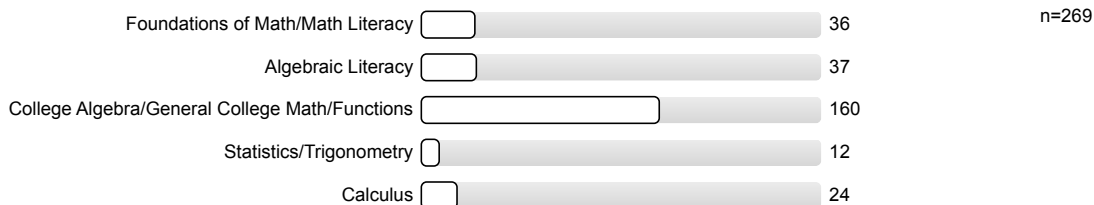
2. After reading through the following summary of a recent news report, use your best judgment to answer the questions below. Information in this paragraph may be used to answer any question on this assessment.

2.1) The College Board states that scores vary greatly by how many students take the exam. The more who take it, the lower the state's average is likely to be. Based on the low percentage of Oklahoma high school students taking the text, you could infer that....

|	
Oklahoma's averages may be falsely deflated.	50
Oklahoma's averages may be falsely elevated.	132
Oklahoma's average scores are likely to be lower than other states.	90
Oklahoma's averages are an accurate reflection of its graduating seniors.	65

n=337

2.2) The national averages for the SAT in 2013 were 496 in Reading, 514 in Math and 488 in Writing. Given that 6% of Oklahoma seniors took the SAT in 2013, which of the following statements most closely reflects your conclusion about the information?

		n=327
Oklahoma's 2013 graduating seniors performed far better than graduating seniors in other states.		60
The percentage of Oklahoma seniors who took the SAT is too small to make a fair		218
The Oklahoma graduating seniors who took the SAT were in the top 6% of their class.		31
Oklahoma's 2013 graduating senior performed far worse than graduating seniors in other states.		18

2.3) The Composite SAT score is the sum of the scores from the reading, writing, and math portions of the SAT. If a student's SAT scores were typical for 2013, what would the student's composite be?

		n=323
1140		18
1689		234
570		38
563		33
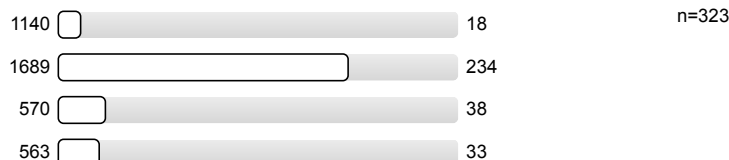
2.4) What is the difference between the average reading score and the average writing score in 2012?

		n=322
20		29
18		33
1114		9
22		251
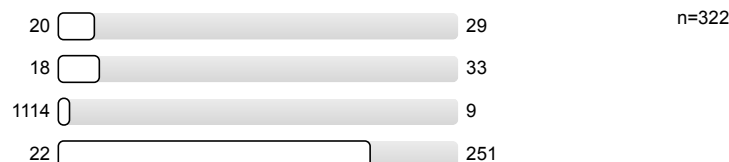
2.5) What is the average of the reading results for the years 2011 - 2013?

		n=317
572.3		21
571		56
570		204
569.3		36
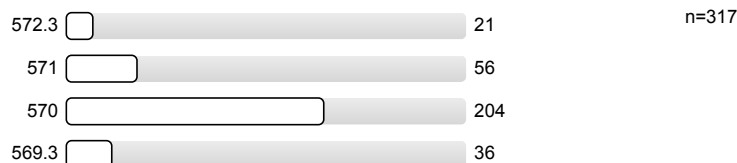
2.6) From a local high school with 300 graduating seniors, about how many students would you expect to have taken the SAT in 2013?

		n=313
less than 10		49
almost 20		207
almost 50		27
more than 50		30
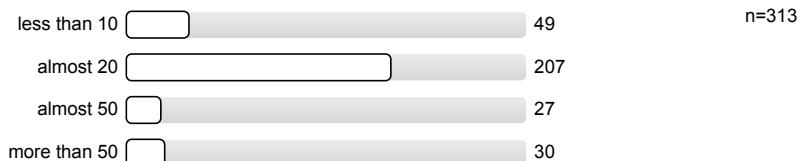
2.7) What fraction of Oklahoma seniors took the SAT in 2012?

		n=317
1/20		183
1/5		85
5/568		27
5/1680		22

2.8) A multiple-choice question on the math portion of the SAT has 4 answer options. If a student ruled out one option for being an unreasonable answer, what is the probability that the student correctly guesses the answer to the question?

		n=321
3/4		61
1/3		194
1/4		44
2/3		22

2.9) Two-thirds of the students taking the SAT score between 400 and 600 on the math portion. If you randomly select 450 students, how many would you expect to score between 400 and 600?

		n=321
150		48
200		63
300		196
350		14

2.10) The formula A = 576 - 11N/10 estimates the average reading scores for the years 2006 - 2013, where N represents the number of years after 2006. Use the formula to predict the average reading score in 2016.

		n=317
567		66
566		69
565		157
564		25

2.11) The average reading score during the years 2006 - 2013 was 20 points higher than the average writing score. If the average reading score was 573, what was the average writing score?

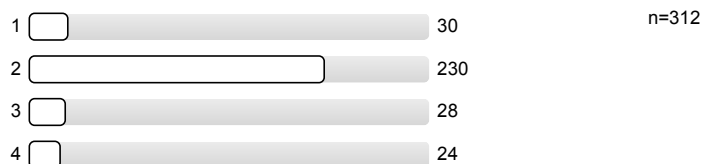|		n=318
553		173
593		118
29		12
1146		15

2.12) The composite scores decreased by 2% from 2006 to 2012. Which of the following statements is true?

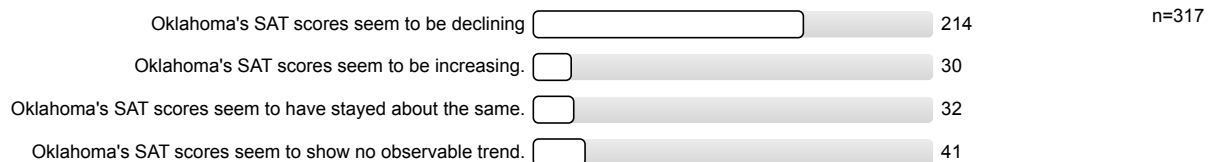|		n=316
The 2012 scores were 2% of the 2006 scores.		53
The 2012 scores were 98% of the 2006 scores.		157
The 2012 scores were 2% more than the 2006 scores.		69
The 2012 scores were 98% less than the 2006 scores.		37

2.13) In what year was the average composite score closest to 1685?

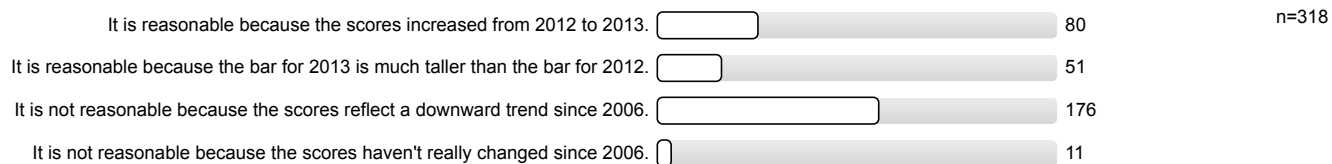|		n=320
2013		51
2011		32
2010		208
2012		29

2.14) During the years 2006 - 2013, how many years resulted in an increase in composite scores compared to the previous year?

n=312

1	30
2	230
3	28
4	24

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2.15) Does the graph show any observable trend in SAT scores for the years 2006 - 2013?

n=317

Oklahoma's SAT scores seem to be declining	214
Oklahoma's SAT scores seem to be increasing.	30
Oklahoma's SAT scores seem to have stayed about the same.	32
Oklahoma's SAT scores seem to show no observable trend.	41

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2.16) The State Superintendent observed that the 2013 results indicate that students who take the SAT are being better prepared in Oklahoma schools for the rigors of college and careers. Based on the above graph of composite scores for the years 2006 - 2013, is the Superintendent's statement reasonable or not reasonable?

n=318

It is reasonable because the scores increased from 2012 to 2013.	80
It is reasonable because the bar for 2013 is much taller than the bar for 2012.	51
It is not reasonable because the scores reflect a downward trend since 2006.	176
It is not reasonable because the scores haven't really changed since 2006.	11

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2.17) Did you use a calculator to answer any of these questions?

n=323

Yes	157
No	166