



2008 College-Bound Seniors

State Profile Report

MICHIGAN

Included in this Report

SAT Reasoning Test™ Data

SAT Subject Tests™ Data

Demographic and Academic Information

College Plans

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The SAT® Program

The SAT Reasoning Test™ (formerly known as the SAT® I: Reasoning Test) assesses student reasoning based on knowledge and skills developed by the students in their course work. The SAT Subject Tests™ (formerly known as SAT II: Subject Tests) are a series of one-hour, mostly multiple-choice tests that measure how much students know about a particular academic subject and how well they can apply that knowledge. Most students also complete the optional SAT Questionnaire (formerly known as the Student Descriptive Questionnaire) when they register to take SAT Program tests, providing valuable contextual information to aid in interpreting and understanding individual and group scores. *College-Bound Seniors 2008* includes students who tested through March 2008.

Using This Report

College-Bound Seniors presents data for high school graduates in the year 2008 who participated in the SAT Program. Students are counted only once, no matter how often they tested, and only their latest scores and most recent SAT Questionnaire responses are summarized. Because the accuracy of self-reported information has been documented and the college-bound population is relatively stable from year to year, SAT Questionnaire responses from these students can be considered highly accurate. Therefore, you can use this report to:

- interpret scores of individual students within the broader context of data aggregated across groups of college-bound seniors;
- study changes over time in the characteristics of students taking SAT tests; and
- look at year-to-year educational and demographic changes in this population, along with changes in test performance.

Keep in mind, however, that:

- relationships between test scores and other factors such as educational background, gender, racial/ethnic background, parental education, and household income are complex and interdependent. These factors do not directly affect test performance; rather, they are associated with educational experiences both on tests such as the SAT Reasoning Test and in schoolwork.
- not all students in a high school, school district, or state take the SAT Reasoning Test. Since the population of test-takers is self-selected, using aggregate SAT Reasoning Test scores to compare or evaluate teachers, schools, districts, states, or other educational units is not valid, and the College Board strongly discourages such uses.
- interpreting SAT Reasoning Test scores for subgroups requires unique considerations. The most significant factor to consider in interpreting SAT Reasoning Test scores for any group, or subgroup, of test-takers is the proportion of students taking the test. For example, if state data are being considered, it is appropriate to recognize that in some states there are lower participation rates. Typically, test-takers in these states have strong academic backgrounds and apply to the nation's most selective colleges and scholarship programs. For these states, it is expected that the SAT Reasoning Test mean scores reported for students will be higher than the national average.

Statistical Definitions

The following terms are used throughout this report. For more statistical information, visit the College Board Web site at www.collegeboard.com.

Mean

The *mean* is the arithmetic average.

Percentile

The *percentile*, also called the percentile point, is the point on the measurement scale below which a specified percentage of scores falls. The 25th, 50th, and 75th percentile points are often reported for large data sets. The 50th percentile point is also called the median and, like the mean, is an average and a good indicator of the center of the distribution of scores. Comparing the 25th and 75th percentile points gives an idea of the range of scores in the populations reported in this document. Like the standard deviation, the difference between the scores associated with the 75th and 25th percentiles is an indication of the variability of the scores in a particular sample.

Scaled score

A *scaled score* is a score that has been converted from the raw score (number of questions answered correctly minus a fraction of the incorrect answers) for reporting. The SAT Program uses the 200–800 scale.

Standard deviation (SD)

The *standard deviation* (SD) is a measure of the variability of a set of scores. If test scores cluster tightly around the mean score, as they do when the group tested is relatively homogeneous, the standard deviation is smaller than it would be with a more diverse group and a greater scatter of scores around the mean.

The College Board: Connecting Students to College Success

The College Board is a not-for-profit membership association whose mission is to connect students to college success and opportunity. Founded in 1900, the association is composed of more than 5,400 schools, colleges, universities, and other educational organizations. Each year, the College Board serves seven million students and their parents, 23,000 high schools, and 3,500 colleges through major programs and services in college admissions, guidance, assessment, financial aid, enrollment, and teaching and learning. Among its best-known programs are the SAT®, the PSAT/NMSQT®, and the Advanced Placement Program® (AP®). The College Board is committed to the principles of excellence and equity, and that commitment is embodied in all of its programs, services, activities, and concerns.

A note about changes to the SAT Questionnaire:

In the 2006-2007 academic year, changes to the SAT Questionnaire were made. Sections of this report most notably affected by this change are Course-Taking Patterns and Intended College Major. In this year's report, the questionnaire responses of some students were not reported as their responses did not map to the current reporting tables. For complete details on the changes please visit www.collegeboard.com/cbs.

Total Group Mean SAT Reasoning Test Scores

College-Bound Seniors, 1972–2008

Year	Critical Reading			Mathematics			Writing		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
1972	531	529	530	527	489	509	-	-	-
1973	523	521	523	525	489	506	-	-	-
1974	524	520	521	524	488	505	-	-	-
1975	515	509	512	518	479	498	-	-	-
1976	511	508	509	520	475	497	-	-	-
1977	509	505	507	520	474	496	-	-	-
1978	511	503	507	517	474	494	-	-	-
1979	509	501	505	516	473	493	-	-	-
1980	506	498	502	515	473	492	-	-	-
1981	508	496	502	516	473	492	-	-	-
1982	509	499	504	516	473	493	-	-	-
1983	508	498	503	516	474	494	-	-	-
1984	511	498	504	518	478	497	-	-	-
1985	514	503	509	522	480	500	-	-	-
1986	515	504	509	523	479	500	-	-	-
1987	512	502	507	523	481	501	-	-	-
1988	512	499	505	521	483	501	-	-	-
1989	510	498	504	523	482	502	-	-	-
1990	505	496	500	521	483	501	-	-	-
1991	503	495	499	520	482	500	-	-	-
1992	504	496	500	521	484	501	-	-	-
1993	504	497	500	524	484	503	-	-	-
1994	501	497	499	523	487	504	-	-	-
1995	505	502	504	525	490	506	-	-	-
1996	507	503	505	527	492	508	-	-	-
1997	507	503	505	530	494	511	-	-	-
1998	509	502	505	531	496	512	-	-	-
1999	509	502	505	531	495	511	-	-	-
2000	507	504	505	533	498	514	-	-	-
2001	509	502	506	533	498	514	-	-	-
2002	507	502	504	534	500	516	-	-	-
2003	512	503	507	537	503	519	-	-	-
2004	512	504	508	537	501	518	-	-	-
2005	513	505	508	538	504	520	-	-	-
2006	505	502	503	536	502	518	491	502	497
2007	504	502	502	533	499	515	489	500	494
2008	504	500	502	533	500	515	488	501	494

NOTE: For 1972–1986 a formula was applied to the original mean and standard deviation to convert the mean to the recentered scale. For 1987–1995 individual student scores were converted to the recentered scale and then the mean was recomputed. From 1996–1999, nearly all students received scores on the recentered scale. Any score on the original scale was converted to the recentered scale prior to computing the mean. From 2000–2008, all scores are reported on the recentered scale.

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SAT Reasoning Test™ Data

Data in this report are for high school graduates in the year 2008. Information is summarized for seniors who took the SAT Reasoning Test™ at any time during their high school years through March 2008. If a student took the test more than once, the most recent score is used.

Table 1: Overall Mean Scores

SAT Reasoning Test	Test-Takers	Critical Reading		Mathematics		Writing *		Writing Sub-Scores			
		Number	Mean	SD	Mean	SD	Mean	SD	Multiple Choice	SD	Essay
Total	7,178	581	107	598	107	572	104	57.3	10.6	7.8	1.6

Table 2: Mean Scores by Gender

SAT Reasoning Test	Test-Takers	Critical Reading		Mathematics		Writing		Writing Sub-Scores			
		Number	Mean	SD	Mean	SD	Mean	SD	Multiple Choice	SD	Essay
Male	3,311	584	109	620	106	566	107	56.9	10.8	7.7	1.6
Female	3,862	578	105	579	103	578	102	57.6	10.4	8.0	1.5
No Response**	5	578		572		564		55.0		8.4	

Table 3: Year in Which Seniors Last Took the SAT Reasoning Test

Scores are from the last administration in which seniors took the SAT Reasoning Test.

SAT Reasoning Test	Test-Takers	Critical Reading		Mathematics		Writing		Writing Sub-Scores			
		Number	Mean	SD	Mean	SD	Mean	SD	Multiple Choice	SD	Essay
Senior (2007-2008)	2,455	568	115	581	115	558	110	55.9	11.3	7.7	1.6
Junior (2006-2007)	4,623	589	101	607	100	581	100	58.1	10.1	7.9	1.5
Sophomore (2005-2006)	71	537	115	561	103	513	103	52.4	10.8	6.9	1.4
Freshman (2004-2005)	29	507	106	556	82	496	82	50.5	7.8	6.8	1.5
Total	7,178	581	107	598	107	572	104	57.3	10.6	7.8	1.6

Table 4: Mean Scores for Total Group

Mean scores for the total group may serve as points of reference when evaluating mean scores for the state.

SAT Reasoning Test	Test-Takers	Critical Reading		Mathematics		Writing		Writing Sub-Scores			
		Number	Mean	SD	Mean	SD	Mean	SD	Multiple Choice	SD	Essay
Total Group	1,518,859	502	112	515	116	494	110	49.5	11.1	7.1	1.7

*Writing data are based on students who took the current version of the SAT Reasoning Test, first administered in March 2005. Of the 7,178 students in this report, 7,169 students have scores on the SAT writing section. The Writing test contains one essay (30% of the total score) and 49 multiple-choice questions (70% of the total score). Essay scores range from 2-12, with a very small percentage of students (less than .3%) receiving scores of 0 on the essay, for essays written completely off topic. Multiple-choice scores range from 20-80.

**'No Response' indicates that students did not answer that question, did not complete the SAT Questionnaire, or stated that they did not wish to answer that question on their SAT Questionnaire.

NOTE: Mean scores are reported when there are 5 or more test-takers. Standard deviations are reported when there are 25 or more test-takers.

SAT Reasoning Test Data

Table 5: Percentiles for State and Total Group

A percentile represents the point below which a percentage of scores fall. Comparing the 25th percentile point to the 75th percentile point gives an idea of the range of performance in a group.

SAT Reasoning Test Percentile	State			Total Group		
	Critical Reading	Mathematics	Writing	Critical Reading	Mathematics	Writing
75th	660	670	650	580	590	570
50th	580	610	570	500	510	490
25th	510	530	500	420	430	420

Table 6: Score Distributions

SAT Reasoning Test Score Range	Critical Reading			Mathematics			Writing		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
750–800	195	191	386	384	188	572	147	191	338
700–740	300	317	617	450	299	749	256	310	567
650–690	509	526	1,036	680	631	1,312	375	531	906
600–640	614	708	1,323	570	644	1,215	545	690	1,235
550–590	537	694	1,232	501	712	1,215	628	693	1,324
500–540	496	624	1,122	311	551	862	524	618	1,142
450–490	319	382	701	199	430	630	405	426	831
400–440	182	241	423	118	244	362	237	248	486
350–390	86	118	204	60	107	167	115	113	228
300–340	45	39	84	22	37	59	46	29	75
250–290	18	15	33	8	10	18	16	4	20
200–240	10	7	17	8	9	17	13	4	17

Table 7: Type of High School

SAT Reasoning Test	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Public	5,088	78	46	54	579	602	570
Religiously Affiliated	766	12	52	48	586	595	579
Independent	686	10	45	55	606	600	600
Other or Unknown	638						

Table 8: Test-Taking Conditions

SAT Reasoning Test	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
Standard Conditions	7,130	99	581	107	598	106	573	104
Nonstandard Conditions	48	1	551	97	555	119	536	112

NOTE: Percentiles are reported when there are 20 or more test-takers.

Demographic Information

SAT Reasoning Test: Mean Scores by Gender Within Ethnicity

Table 9: Total Mean Scores by Ethnicity

SAT Reasoning Test Test-Takers Who Described Themselves As:	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
American Indian or Alaska Native	32	0	555	113	558	123	539	102
Asian, Asian American, or Pacific Islander	1,029	14	574	124	659	102	589	119
Black or African American	554	8	496	109	493	108	489	104
Mexican or Mexican American	68	1	577	102	581	95	564	98
Puerto Rican	14	0	556		541		530	
Other Hispanic, Latino, or Latin American	101	1	552	90	563	95	546	95
White	4,791	67	593	97	600	97	579	96
Other	250	3	578	106	590	109	584	101
No Response	339	5	588	112	579	107	570	110
Total	7,178	100	581	107	598	107	572	104

Table 10: Male Mean Scores by Ethnicity

SAT Reasoning Test Test-Takers Who Described Themselves As:	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
American Indian or Alaska Native	15	0	573		611		561	
Asian, Asian American, or Pacific Islander	505	7	573	123	679	94	584	121
Black or African American	214	3	486	118	500	121	469	107
Mexican or Mexican American	34	0	562	111	589	105	547	106
Puerto Rican	6	0	580		560		520	
Other Hispanic, Latino, or Latin American	40	1	561	101	590	99	547	104
White	2,231	31	596	99	621	96	571	98
Other	108	2	599	98	625	104	593	108
No Response	158	2	591	108	597	105	567	107
Total	3,311	46	584	109	620	106	566	107

Table 11: Female Mean Scores by Ethnicity

SAT Reasoning Test Test-Takers Who Described Themselves As:	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
American Indian or Alaska Native	17	0	538		510		520	
Asian, Asian American, or Pacific Islander	524	7	575	125	640	106	594	116
Black or African American	339	5	502	103	488	99	501	101
Mexican or Mexican American	34	0	592	89	574	83	582	86
Puerto Rican	8	0	539		528		538	
Other Hispanic, Latino, or Latin American	61	1	546	81	546	88	544	88
White	2,557	36	591	95	581	93	586	93
Other	142	2	562	110	563	105	577	94
No Response	180	3	586	116	563	106	574	112
Total	3,862	54	578	105	579	103	578	102

Demographic Information

SAT Reasoning Test: Student Background Information and Characteristics

Table 12: Student Background Information and Characteristics

Student demographic information provides a broader context to aid in interpreting and understanding individual and group scores.

SAT Reasoning Test	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
All Test-Takers	7,178	100	581	107	598	107	572	104
First Language Learned								
English	5,397	81	585	102	590	103	571	100
English and Another	712	11	574	107	614	113	578	109
Another Language	517	8	535	127	638	111	553	123
No Response	552							
Citizenship								
U.S. Citizen / U.S. National	6,098	93	585	101	594	104	574	101
U.S. Permanent Resident or Refugee	244	4	573	118	638	109	585	109
Citizen of Another Country	226	3	463	120	608	119	487	121
Other, Unknown, or No Response	610							
Disabling Condition								
Yes	335	5	558	110	548	112	534	109
Unknown or No Response	6,843							
Plans to Apply for Financial Aid								
Yes	4,285	69	580	107	591	107	569	104
No	627	10	576	105	605	100	574	100
Don't Know	1,289	21	577	101	603	102	572	101
Family Income								
\$0 - \$20,000	172	4	508	122	530	129	504	109
\$20,000–\$40,000	350	8	540	117	554	123	530	111
\$40,000–\$60,000	542	12	565	110	568	109	551	105
\$60,000–\$80,000	743	16	576	103	585	106	560	100
\$80,000–\$100,000	736	16	579	102	601	102	568	102
\$100,000–\$120,000	657	14	581	101	601	102	574	100
\$120,000–\$140,000	318	7	580	104	596	99	576	97
\$140,000–\$160,000	223	5	594	101	608	101	585	101
\$160,000–\$200,000	341	7	597	100	611	95	584	103
More than \$200,000	511	11	600	96	617	92	594	92
No Response	2,585							
Highest Level of Parental Education								
No High School Diploma	46	1	492	113	529	128	488	109
High School Diploma	775	12	521	107	535	108	514	101
Associate Degree	327	5	540	98	558	102	526	96
Bachelor's Degree	2,042	32	572	101	589	100	561	98
Graduate Degree	3,183	50	605	99	620	99	597	97
Took the PSAT/NMSQT®								
Yes, As a Junior	2,938	49	584	103	599	102	575	99
Yes, As a Sophomore or Younger	904	15	573	93	583	98	559	93
Yes, As a Junior and As a Sophomore or Younger	1,290	21	618	94	635	95	612	93
No	897	15	528	111	550	112	515	108

Academic Information

Academic Record

Table 13: High School Rank

SAT Reasoning Test	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Highest Tenth	2,133	56	47	53	628	650	620
Second Tenth	948	25	46	53	557	578	548
Second Fifth	444	12	49	51	524	539	509
Final Three Fifths	279	7	52	48	480	490	464
No Response	3,374						

Table 14: High School Grade Point Average

SAT Reasoning Test	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
A+ (97–100)	900	14	45	55	647	661	639
A (93–96)	2,197	34	43	57	611	635	606
A- (90–92)	1,574	24	45	55	577	597	568
B (80–89)	1,680	26	50	50	520	527	505
C (70–79)	175	3	61	39	463	463	448
D, E, or F (below 70)	4	0	75	25			
No Response	648						
Mean Grade Point Average	All Students: 3.69		Male: 3.65		Female: 3.72		

Table 15: Average Years of Study in Six Academic Subjects

SAT Reasoning Test	Average Years of Study			Grade Point Average: Each Subject		
	Male	Female	Total	Male	Female	Total
Arts and Music	2.1	2.5	2.3	3.87	3.96	3.92
English and Language Arts	4.0	4.0	4.0	3.62	3.78	3.71
Foreign and Classical Languages	3.0	3.2	3.1	3.60	3.72	3.66
Mathematics	4.0	3.9	4.0	3.58	3.53	3.55
Natural Sciences	3.9	3.8	3.8	3.63	3.63	3.63
Social Sciences and History	3.6	3.6	3.6	3.69	3.75	3.72
Total for All Subjects	20.6	21.0	20.8			

Academic Information

Course-Taking Patterns

Table 16: English, Mathematics

English and Language Arts	Test-Takers		Percent by Gender		SAT Reasoning Test Mean Scores		
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics
More Than 4 Years	678	12	39	61	607	613	597
4 Years	4,644	80	46	54	583	598	573
3 Years	422	7	47	53	533	552	529
2 Years	73	1	47	53	534	586	527
1 Year	8	0	38	63	504	551	496
1/2 Year or Less	7	0	29	71	386	523	446
No Response	1,346						
Course Work or Experience							
English/Language Arts	5,459	96	45	55	584	597	574
Journalism	846	15	34	66	581	579	570
Creative Writing	1,662	29	40	60	573	576	563
American Literature	3,941	69	45	55	585	597	575
Composition/Writing	2,883	51	44	56	581	594	572
British Literature	1,757	31	41	59	599	601	585
World Literature	2,104	37	43	57	593	602	583
Communications	897	16	43	57	570	589	562
Public Speaking	2,445	43	43	56	587	596	579
English As Second Language	226	4	46	54	479	604	503
AP®/Honors Courses	2,886	49	40	60	622	627	613

Mathematics	Test-Takers		Percent by Gender		SAT Reasoning Test Mean Scores		
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics
More Than 4 Years	760	13	53	47	597	643	590
4 Years	4,278	73	46	54	584	599	574
3 Years	704	12	38	62	553	537	541
2 Years	89	2	38	62	546	528	522
1 Year	12	0	25	75	480	509	477
1/2 Year or Less	6	0	67	33	510	588	533
No Response	1,329						
Highest Level of Mathematics Achieved*							
Calculus	2,980	51	49	51	615	651	609
Pre-calculus	1,538	26	42	58	561	567	550
Trigonometry	446	8	38	62	541	527	524
Algebra II	677	12	38	62	528	503	515
Algebra I	105	2	50	50	485	425	452
AP/Honors Courses	2,785	48	49	51	619	652	612

*To better reflect the relationship between students' SAT scores and their Mathematics course work, course work is now being displayed as the highest level of mathematics achieved. This means that each student is counted only once under their highest level of mathematics course taken.

Academic Information

Course-Taking Patterns

Table 17: Natural Sciences, Social Sciences and History

Natural Sciences	Test-Takers		Percent by Gender		SAT Reasoning Test Mean Scores		
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics
More Than 4 Years	837	14	48	52	612	647	605
4 Years	3,533	61	46	54	586	603	576
3 Years	1,141	20	42	58	558	554	549
2 Years	245	4	41	59	544	549	520
1 Year	46	1	41	59	516	507	500
1/2 Year or Less	17	0	24	76	485	517	506
No Response	1,359						
Course Work or Experience							
Biology	5,596	97	45	55	583	597	574
Chemistry	5,386	94	45	55	585	602	576
Physics	4,046	70	49	51	595	619	586
Geology, Earth, or Space Science	2,916	51	44	55	568	578	557
Other Sciences	2,226	39	37	63	573	584	565
AP/Honors Courses	2,647	45	47	53	619	643	610

Social Sciences and History	Test-Takers		Percent by Gender		SAT Reasoning Test Mean Scores		
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics
More Than 4 Years	476	8	44	56	597	613	588
4 Years	3,140	54	45	54	589	599	579
3 Years	1,842	32	45	55	571	591	562
2 Years	294	5	48	52	552	576	536
1 Year	49	1	49	51	533	574	542
1/2 Year or Less	25	0	60	40	503	542	526
No Response	1,352						
Course Work or Experience							
U.S. History	5,442	95	45	55	584	598	574
World History or Cultures	4,171	73	45	55	587	599	576
U.S. Government or Civics	5,198	91	44	55	584	598	573
Economics	3,371	59	44	56	579	596	569
Geography	1,307	23	44	56	551	559	538
Psychology	2,018	35	36	64	579	589	571
European History	1,639	29	48	51	602	611	594
Sociology	820	14	35	65	563	571	555
Ancient History	1,090	19	47	53	593	600	584
Other Courses	1,352	24	43	57	585	593	573
AP/Honors Courses	2,485	43	44	56	624	632	614

Academic Information

Course-Taking Patterns

Table 18: Foreign and Classical Languages

Foreign and Classical Languages	Test-Takers		Percent by Gender		SAT Reasoning Test Mean Scores			
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	339	6	41	59	603	623	605	
4 Years	2,323	40	41	59	606	620	602	
3 Years	1,417	24	46	54	580	594	568	
2 Years	1,328	23	51	49	553	568	537	
1 Year	244	4	52	48	524	538	502	
1/2 Year or Less	174	3	58	42	509	544	492	
No Response	1,353							
Course Work or Experience								
Chinese	136	2	48	52	561	632	571	
French	1,404	24	35	65	594	600	587	
German	568	10	53	47	598	611	586	
Greek	22	0	41	59	654	586	614	
Hebrew	26	0	42	58	604	598	579	
Italian	45	1	29	71	588	570	571	
Japanese	169	3	44	56	557	588	538	
Korean	28	0	43	57	506	617	511	
Latin	424	7	52	48	624	614	608	
Russian	24	0	50	50	548	575	586	
Spanish	3,424	60	46	54	578	592	569	
Other Languages	121	2	38	62	557	575	559	
AP/Honors Courses	1,395	24	41	59	632	646	631	

Academic Information

Course-Taking Patterns

Table 19: Arts and Music, Computers

Arts and Music	Test-Takers		Percent by Gender		SAT Reasoning Test Mean Scores		
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics
More Than 4 Years	395	7	38	62	599	595	581
4 Years	1,513	27	41	59	602	608	590
3 Years	613	11	36	64	574	586	565
2 Years	916	16	43	57	576	592	570
1 Year	1,056	19	47	53	573	590	562
1/2 Year or Less	1,211	21	57	43	566	596	559
No Response	1,474						
Course Work or Experience							
Acting or Play Production	1,361	25	34	66	601	593	589
Art History or Appreciation	739	14	34	66	573	575	567
Dance	616	11	10	90	564	561	564
Drama: Study or Appreciation	841	15	29	71	586	576	574
Music: Study or Appreciation	772	14	45	55	602	600	589
Music Performance	2,839	52	42	58	600	610	589
Photography or Film	905	17	35	65	577	581	566
Studio Art and Design	1,278	23	33	67	580	587	571
None	914	17	62	38	554	589	545
AP/Honors Courses	409	7	40	60	617	622	610

Computers	Test-Takers		Percent by Gender		SAT Reasoning Test Mean Scores		
	Course Work or Experience	Number	Pct	Male	Female	Critical Reading	Mathematics
Computer Literacy	3,858	71	46	54	583	597	572
Computer Programming	1,141	21	63	37	582	618	570
Word Processing	4,061	74	46	54	584	596	572
Internet Activity	3,073	56	47	52	585	599	573
Using Computer Graphics	1,792	33	53	47	577	598	564
Creating Spreadsheets/Databases	2,156	39	49	51	585	604	574
None	522	10	35	65	588	598	588

SAT Subject Tests™ Data

Table 20: Number of Test-Takers and Tests for SAT Subject Tests

Students Who Took SAT Subject Tests		Students Who Took an SAT Subject Test and Also Took the SAT Reasoning Test			
Number of Test-Takers	Number of Tests	Number of Test-Takers	Critical Reading Mean	Mathematics Mean	Writing Mean
2,120	5,614	1,565	656	683	657

Students Who Took One or More Different SAT Subject Tests		
Number of Tests Taken	Number of Test-Takers	Percent of Total Test-Takers Who Took One or More Tests
1	108	5
2	748	35
3	1,091	51
4 or More	173	8

Table 21: Mean Scores for SAT Subject Tests and for Students Who Also Took the SAT Reasoning Test

Most, but not all, students who take SAT Subject Tests also take the SAT Reasoning Test. This table provides SAT Subject Test scores for students who took SAT Subject Tests. It also provides the SAT Reasoning Test scores for those students who also took the SAT Reasoning Test.

	SAT Subject Test			SAT Reasoning Test						
	N	Mean	SD	N	Critical Reading Mean	SD	Mathematics Mean	SD	Writing Mean	SD
English										
Literature	798	649	86	556	678	79	654	85	668	79
History and Social Studies										
U.S. History	626	660	94	485	675	81	671	86	665	80
World History	80	629	100	55	672	91	650	105	668	78
Mathematics										
Mathematics Level 1	585	638	92	379	623	92	648	79	631	89
Mathematics Level 2	1,379	708	85	1,053	662	87	712	65	664	81
Science										
Biology-E	195	646	88	135	654	90	673	73	659	88
Biology-M	327	685	76	259	670	77	697	72	666	76
Chemistry	748	684	91	589	662	90	718	68	667	82
Physics	343	688	84	257	646	99	725	63	652	87
Foreign and Classical Languages										
Chinese/Listening	66	774	46	60	665	99	743	53	676	77
French	103	615	107	84	678	83	669	79	682	75
French/Listening	28	620	119	21	674		660		689	
German	17	593		13	685		665		713	
German/Listening	14	587		14	643		648		663	
Modern Hebrew	5	560		3						
Italian										
Japanese/Listening	16	647		13	660		695		652	
Korean/Listening	26	785	25	21	592		715		629	
Latin	26	597	83	25	706	65	679	81	695	63
Spanish	203	593	105	161	649	81	656	87	660	78
Spanish/Listening	29	661	89	23	690		663		694	

SAT Subject Tests Score Distributions

Table 22: English, History and Social Studies

SAT Subject Tests	English		History and Social Studies			
	Literature		U.S. History		World History	
	N	Pct	N	Pct	N	Pct
750-800	101	13	130	21	12	15
700-740	163	20	134	21	12	15
650-690	185	23	106	17	12	15
600-640	133	17	104	17	11	14
550-590	112	14	69	11	16	20
500-540	62	8	42	7	6	8
450-490	33	4	28	4	9	11
400-440	7	1	10	2	2	3
350-390	1	0	3	0		
300-340	1	0				
250-290						
200-240						
Total	798		626		80	
Mean	649		660		629	
SD	86		94		100	
75th percentile	710		740		720	
50th percentile	660		670		620	
25th percentile	590		600		560	

Table 23: Mathematics, Science

SAT Subject Tests	Mathematics				Science							
	Mathematics Level 1		Mathematics Level 2		Biology-E		Biology-M		Chemistry		Physics	
	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct
750-800	54	9	602	44	24	12	74	23	233	31	103	30
700-740	133	23	233	17	34	17	91	28	157	21	76	22
650-690	110	19	213	15	50	26	71	22	129	17	64	19
600-640	121	21	167	12	38	19	50	15	95	13	40	12
550-590	79	14	98	7	24	12	26	8	72	10	36	10
500-540	37	6	51	4	12	6	11	3	33	4	19	6
450-490	29	5	13	1	10	5	2	1	22	3	4	1
400-440	16	3	1	0	2	1	1	0	6	1	1	0
350-390	6	1	1	0	1	1			1	0		
300-340							1	0				
250-290												
200-240												
Total	585		1,379		195		327		748		343	
Mean	638		708		646		685		684		688	
SD	92		85		88		76		91		84	
75th percentile	710		790		720		740		760		760	
50th percentile	650		720		650		700		700		700	
25th percentile	580		650		590		640		620		630	

SAT Subject Tests Score Distributions

Table 24: Foreign and Classical Languages

SAT Subject Tests	Foreign and Classical Languages											
	Chinese/Listening		French		French/Listening		German		German/Listening		Modern Hebrew	
	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct
750-800	58	88	15	15	5	18	2	12	2	14		
700-740	5	8	13	13	4	14	2	12	2	14	1	20
650-690	2	3	15	15	6	21	2	12	2	14	2	40
600-640			15	15	2	7	1	6				
550-590			16	16	2	7	3	18	2	14		
500-540			12	12	5	18	3	18	2	14		
450-490	1	2	13	13	1	4	3	18	2	14	1	20
400-440			3	3	3	11	1	6				
350-390			1	1					2	14		
300-340												
250-290											1	20
200-240												
Total	66		103		28		17		14		5	
Mean	774		615		620		593		587		560	
SD	46		107		119							
75th percentile	800		700		710							
50th percentile	790		610		650							
25th percentile	760		520		520							

Table 25: Foreign and Classical Languages (continued)

SAT Subject Tests	Foreign and Classical Languages											
	Italian		Japanese/Listening		Korean/Listening		Latin		Spanish		Spanish/Listening	
	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct
750-800			4	25	25	96			16	8	7	24
700-740			2	13			3	12	21	10	4	14
650-690			4	25	1	4	4	15	29	14	5	17
600-640			4	25			8	31	39	19	5	17
550-590							3	12	31	15	3	10
500-540							4	15	26	13	5	17
450-490							3	12	21	10		
400-440			1	6			1	4	15	7		
350-390									4	2		
300-340												
250-290			1	6					1	0		
200-240												
Total			16		26		26		203		29	
Mean			647		785		597		593		661	
SD					25		83		105		89	
75th percentile					800		640		670		740	
50th percentile					790		610		600		670	
25th percentile					780		510		520		580	

College Plans

Table 26: Intended College Major, Degree-Level Goal

SAT Reasoning Test Intended College Major	Test-Takers		Mean Scores		
	Number	Pct	Critical Reading	Mathematics	Writing
Agriculture, Agriculture Operations, and Related Sciences	13	0	585	556	559
Architecture and Related Services	111	2	550	598	550
Area, Ethnic, Cultural and Gender Studies	5	0	660	602	590
Biological and Biomedical Sciences	432	8	610	632	600
Business Management, Marketing, and Related Support Services	563	11	535	578	534
Communication, Journalism and Related Programs	173	3	572	549	565
Computer and Information Sciences and Support Services	115	2	590	628	564
Construction Trades					
Education	229	4	549	551	541
Engineering	623	12	592	644	575
Engineering Technologies/Technicians	41	1	484	556	492
English Language and Literature/Letters	139	3	648	589	630
Family and Consumer Sciences/Human Sciences	9	0	548	540	556
Foreign Languages, Literatures, and Linguistics	79	2	624	591	623
Health Professions and Related Clinical Services	1,036	20	566	590	567
History	66	1	620	570	590
Legal Professions and Studies	214	4	584	584	577
Liberal Arts and Sciences, General Studies, and Humanities	86	2	620	615	608
Library Science/Librarianship	1	0			
Mathematics and Statistics	59	1	614	698	604
Mechanic and Repair Technologies/Technician	2	0			
Military Sciences	10	0	585	629	579
Multi/Interdisciplinary Studies	19	0	668	674	665
Natural Resources and Conservation	18	0	612	608	615
Parks, Recreation, Leisure and Fitness Studies	10	0	492	539	462
Personal and Culinary Services	6	0	497	452	483
Philosophy and Religious Studies	18	0	623	580	618
Physical Sciences	143	3	619	661	610
Precision Production					
Psychology	213	4	566	560	555
Public Administration and Social Services Professions	10	0	547	513	524
Security and Protective Services	26	0	515	523	472
Social Sciences	116	2	654	626	629
Theology and Religious Vocations	12	0	628	613	588
Transportation and Materials Moving	4	0			
Visual and Performing Arts	452	9	575	557	559
Other	41	1	561	558	541
Undecided	157	3	618	626	601
Degree-Level Goal					
Certificate Program	18	0	482	506	464
Associate Degree	17	0	465	495	466
Bachelor's Degree	961	15	543	553	529
Master's Degree	2,005	32	572	590	562
Doctoral or Related Degree	2,161	35	599	618	593
Other	19	0	524	538	519
Undecided	1,061	17	591	603	582

College Plans

Table 27: Institutions That Received the Most SAT Program Score Reports from Your Students

Of the 7,733 students from your state who took the SAT Reasoning Test and/or an SAT Subject Test, 6,028 designated that their score reports be sent to institutions. Students may designate more than one institution to receive scores. This list includes only the 45 institutions that received the most score reports. A total of 1,267 institutions received score reports from your students.

Institution	State	Type	Number of Students	Percent of Score Senders*
UNIVERSITY OF MICHIGAN ANN ARBOR	MI	Public	3,434	57.0
MICHIGAN STATE UNIVERSITY	MI	Public	2,432	40.3
NORTHWESTERN UNIVERSITY	IL	Private	828	13.7
HARVARD UNDERGRADUATE ADMISSIONS	MA	Private	649	10.8
NATIONAL MERIT SCHOLARSHIP PROGRAM	IL	Scholarship	627	10.4
GRAND VALLEY STATE UNIVERSITY	MI	Public	541	9.0
YALE UNIVERSITY	CT	Private	494	8.2
WESTERN MICHIGAN UNIVERSITY	MI	Public	475	7.9
CORNELL UNIVERSITY	NY	Private	470	7.8
PRINCETON UNIVERSITY	NJ	Private	469	7.8
NEW YORK UNIVERSITY	NY	Private	463	7.7
UNIVERSITY OF CHICAGO	IL	Private	430	7.1
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	MA	Private	428	7.1
STANFORD UNIVERSITY	CA	Private	419	7.0
WAYNE STATE UNIVERSITY	MI	Public	384	6.4
COLUMBIA UNIVERSITY COLUMBIA COLLEGE	NY	Private	378	6.3
CENTRAL MICHIGAN UNIVERSITY	MI	Public	377	6.3
UNIVERSITY OF NOTRE DAME	IN	Private	370	6.1
EASTERN MICHIGAN UNIVERSITY	MI	Public	355	5.9
KALAMAZOO COLLEGE	MI	Private	339	5.6
PURDUE UNIVERSITY WEST LAFAYETTE	IN	Public	330	5.5
UNIVERSITY OF PENNSYLVANIA UNDERGRADUATE	PA	Private	328	5.4
BROWN UNIVERSITY	RI	Private	286	4.7
WASHINGTON UNIVERSITY	MO	Private	286	4.7
DUKE UNIVERSITY	NC	Private	271	4.5
BOSTON UNIVERSITY	MA	Private	263	4.4
MICHIGAN TECHNOLOGICAL UNIVERSITY	MI	Public	261	4.3
JOHNS HOPKINS UNIVERSITY	MD	Private	251	4.2
GEORGETOWN UNIVERSITY	DC	Private	249	4.1
UNIVERSITY OF CALIFORNIA BERKELEY	CA	Public	240	4.0
CARNEGIE MELLON UNIVERSITY	PA	Private	233	3.9
ALBION COLLEGE	MI	Private	229	3.8
LOYOLA UNIVERSITY CHICAGO	IL	Private	229	3.8
UNIVERSITY OF SOUTHERN CALIFORNIA	CA	Private	220	3.6
DARTMOUTH COLLEGE	NH	Private	212	3.5
HOPE COLLEGE	MI	Private	209	3.5
UNIVERSITY OF CALIFORNIA LOS ANGELES	CA	Public	207	3.4
BOSTON COLLEGE	MA	Private	206	3.4
INDIANA UNIVERSITY BLOOMINGTON	IN	Public	203	3.4
UNIVERSITY OF WISCONSIN MADISON	WI	Public	182	3.0
OHIO STATE UNIVERSITY COLUMBUS	OH	Public	178	3.0
UNIVERSITY OF MICHIGAN DEARBORN	MI	Public	177	2.9
NCAA ELIGIBILITY CENTER	IA	Public	171	2.8
OAKLAND UNIVERSITY	MI	Public	165	2.7
MIAMI UNIVERSITY OXFORD	OH	Public	156	2.6

*Of your students who designated that their SAT Reasoning Test and/or SAT Subject Test score reports be sent to institutions, the 'Percent of Score Senders' indicates the percent of those students who had their scores sent to each institution listed.

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