



2011 College-Bound Seniors

State Profile Report

MICHIGAN

Included in This Report

SAT® Data

SAT Subject Tests™ Data

Demographic and Academic Information

College Plans

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The SAT® Program

The SAT® (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 2011* includes students who tested through June 2011.

Using This Report

College-Bound Seniors presents data for high school graduates in the year 2011 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 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.
- Look at 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 and in schoolwork.
- Occasional updates are made to the optional Student Questionnaire to improve student response rates. Fluctuations from year to year should be interpreted with appropriate consideration.
- Not all students in a high school, school district, or state take the SAT. Since the population of test-takers is self-selected, using aggregate SAT 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 scores for subgroups requires unique considerations. The most significant factor to consider in interpreting SAT 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 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.org.

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 to 800 point 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: Inspiring Minds™

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 5,600 schools, colleges, universities, and other educational organizations. Each year, the College Board serves seven million students and their parents, 23,000 high schools, and 3,800 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.

Total Group Mean SAT Scores

College-Bound Seniors, 1972–2011

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	503	500	501	532	499	514	487	499	493
2008	502	499	500	532	499	514	486	499	493
2009	502	497	499	533	498	514	485	498	492
2010	502	498	500	533	499	515	485	497	491
2011	500	495	497	531	500	514	482	496	489

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 2000–2011, all scores are reported on the recentered scale. Cohort data presented prior to 2007 include students testing through March of the senior year, while cohort data from 2007 to present include students testing through June. For further information see <http://www.collegeboard.org/sat/cbs-2011-trends>.

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SAT® Data

Data in this report are for high school graduates in the year 2011. Information is summarized for seniors who took the SAT at any time during their high school years through June 2011. If a student took the test more than once, the most recent score is used.

Table 1: Overall Mean Scores

SAT	Test-Takers Number	Critical Reading		Mathematics		Writing *		Writing Subscores			
		Mean	SD	Mean	SD	Mean	SD	Multiple Choice		Essay	
								Mean	SD	Mean	SD
Total	5,376	583	115	604	111	573	111	57.5	11.2	7.9	1.5

Table 2: Mean Scores by Gender

SAT	Test-Takers Number	Critical Reading		Mathematics		Writing		Writing Subscores			
		Mean	SD	Mean	SD	Mean	SD	Multiple Choice		Essay	
								Mean	SD	Mean	SD
Male	2,526	586	116	624	110	569	113	57.2	11.4	7.8	1.5
Female	2,850	580	113	587	110	578	108	57.8	11.0	8.0	1.4

Table 3: Year in Which Seniors Last Took the SAT

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

SAT	Test-Takers Number	Critical Reading		Mathematics		Writing		Writing Subscores			
		Mean	SD	Mean	SD	Mean	SD	Multiple Choice		Essay	
								Mean	SD	Mean	SD
Senior (2010-2011)	2,193	562	127	583	120	551	120	55.4	12.2	7.7	1.5
Junior (2009-2010)	3,089	598	103	620	102	589	101	59.0	10.2	8.1	1.4
Sophomore (2008-2009)	75	584	94	602	108	575	101	58.2	10.0	7.6	1.5
Freshman (2007-2008)	19	507		515		474		48.1		6.6	
Total	5,376	583	115	604	111	573	111	57.5	11.2	7.9	1.5

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	Test-Takers Number	Critical Reading		Mathematics		Writing		Writing Subscores			
		Mean	SD	Mean	SD	Mean	SD	Multiple Choice		Essay	
								Mean	SD	Mean	SD
Total Group	1,647,123	497	114	514	117	489	113	49.1	11.4	7.3	1.6

*Writing data are based on students who took the current version of the SAT, first administered in March 2005. All students in the 2011 cohort took the SAT writing section. The writing section contains one essay (30 percent of the total score) and 49 multiple-choice questions (70 percent of the total score). Essay scores range from 2-12, with a very small percentage of students (less than 0.3 percent) receiving scores of 0 on the essay, for essays written completely off topic. Multiple-choice scores range from 20 to 80.

SAT 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 Percentile	State			Total Group		
	Critical Reading	Mathematics	Writing	Critical Reading	Mathematics	Writing
75th	670	690	650	570	600	560
50th	590	610	580	490	510	480
25th	510	530	500	420	430	410

Table 6: Score Distributions

The score ranges in the following table reflect SAT Skills Insight™, a resource that identifies skills demonstrated by typical students who score in each range. For more information and resources for educators and students, please visit www.collegeboard.org/sat-skills.

SAT Score Range	Critical Reading			Mathematics			Writing		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
700–800	474	454	928	690	491	1,181	348	399	747
600-690	811	896	1,707	960	928	1,888	727	901	1,628
500-590	689	841	1,530	533	841	1,374	801	896	1,697
400-490	392	496	888	249	463	712	462	505	967
300-390	127	136	263	81	110	191	165	126	291
200-290	33	27	60	13	17	30	23	23	46

Table 7: Type of High School

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Public	3,871	77	45	55	583	608	572
Religiously Affiliated	564	11	57	43	574	610	576
Independent	605	12	45	55	607	611	603
Other or Unknown	336		51	49	546	547	531

Table 8: Test-Taking Conditions

Nonstandard conditions reflect test-takers who received an accommodation. *Disabling conditions* are self-reported student responses.

SAT	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
Disabling Conditions	169	3	565	113	563	118	545	113
Nonstandard Conditions	64	1	577	108	585	114	569	105

Demographic Information

SAT: Mean Scores by Gender Within Ethnicity

Table 9: Total Mean Scores by Ethnicity

SAT 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	21	0	543		540		540	
Asian, Asian American, or Pacific Islander	954	18	580	136	677	94	597	126
Black or African American	474	9	489	116	482	114	474	111
Mexican or Mexican American	67	1	554	117	552	118	549	111
Puerto Rican	13	0	559		552		547	
Other Hispanic, Latino, or Latin American	74	1	574	116	588	92	555	105
White	3,439	64	599	100	605	98	583	97
Other	180	3	587	115	609	113	576	115
No Response	154	3	544	123	553	117	531	111
Total	5,376	100	583	115	604	111	573	111

Table 10: Male Mean Scores by Ethnicity

SAT 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	7	0	501		521		489	
Asian, Asian American, or Pacific Islander	458	9	581	137	690	87	594	128
Black or African American	194	4	478	118	484	123	459	113
Mexican or Mexican American	20	0	566		559		546	
Puerto Rican	5	0	554		564		554	
Other Hispanic, Latino, or Latin American	34	1	574	120	614	84	548	108
White	1,644	31	602	101	625	96	576	100
Other	84	2	611	103	650	99	591	110
No Response	80	1	549	119	572	122	535	108
Total	2,526	47	586	116	624	110	569	113

Table 11: Female Mean Scores by Ethnicity

SAT 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	14	0	564		550		565	
Asian, Asian American, or Pacific Islander	496	9	579	134	665	98	601	123
Black or African American	280	5	497	114	480	107	485	108
Mexican or Mexican American	47	1	549	107	549	111	550	105
Puerto Rican	8	0	563		545		543	
Other Hispanic, Latino, or Latin American	40	1	574	112	566	93	560	102
White	1,795	33	597	98	587	96	590	95
Other	96	2	566	120	573	113	563	117
No Response	74	1	538	126	533	107	528	113
Total	2,850	53	580	113	587	110	578	108

Demographic Information

SAT: 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	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
All Test-Takers	5,376	100	583	115	604	111	573	111
First Language Learned								
English	4,097	78	589	108	592	108	572	105
English and Another	579	11	590	124	640	117	598	120
Another Language	583	11	537	137	659	101	559	129
No Response	117		564	125	585	115	558	116
Citizenship								
U.S. Citizen / U.S. National	4,700	91	592	109	600	111	578	107
U.S. Permanent Resident or Refugee	189	4	593	110	657	101	602	104
Citizen of Another Country	303	6	476	127	650	99	513	127
Other, Unknown, or No Response	184		512	131	579	117	513	115
Plans to Apply for Financial Aid								
Yes	3,516	74	583	114	598	113	571	110
No	368	8	579	108	613	109	576	107
Don't Know	847	18	576	120	617	108	576	113
No Response	645		590	114	620	105	579	113
Family Income								
\$0 - \$20,000	198	6	483	120	528	128	483	110
\$20,000–\$40,000	296	9	535	116	549	119	523	113
\$40,000–\$60,000	401	12	552	116	565	117	536	112
\$60,000–\$80,000	427	13	576	111	590	108	564	103
\$80,000–\$100,000	439	14	589	111	609	107	577	106
\$100,000–\$120,000	463	14	592	104	617	104	580	99
\$120,000–\$140,000	214	7	595	103	620	98	583	94
\$140,000–\$160,000	176	5	608	98	625	104	601	105
\$160,000–\$200,000	215	7	614	94	639	92	605	93
More than \$200,000	405	13	608	103	630	98	599	103
No Response	2,142		591	116	615	109	584	112
Highest Level of Parental Education								
No High School Diploma	38	1	479	123	529	117	469	105
High School Diploma	587	11	508	116	534	117	498	110
Associate Degree	260	5	533	105	544	110	525	98
Bachelor's Degree	1,778	34	576	109	598	107	565	104
Graduate Degree	2,502	48	617	103	637	100	608	101
No Response	211		528	130	562	111	521	118
Took the PSAT/NMSQT®								
Yes, As a Junior	2,015	40	599	108	616	105	588	103
Yes, As a Sophomore or Younger	892	18	574	104	592	110	562	104
Yes, As a Junior and As a Sophomore or Younger	1,144	23	629	97	645	99	622	95
No	960	19	512	119	551	117	503	110
No Response	365		557	117	583	110	550	111

Note: Occasional updates are made to the optional Student Questionnaire to improve student response rates. Fluctuations from year to year should be interpreted with appropriate consideration.

Academic Information

Academic Record

Table 13: High School Rank

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Highest Tenth	1,721	60	47	53	632	656	624
Second Tenth	627	22	51	49	555	583	547
Second Fifth	305	11	55	45	520	551	509
Final Three Fifths	198	7	56	44	473	498	466
No Response	2,525		45	55	572	590	562

Table 14: High School Grade Point Average

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
A+ (97–100)	848	17	42	58	647	665	641
A (93–96)	1,863	36	44	56	616	645	611
A- (90–92)	1,159	23	48	52	572	594	558
B (80–89)	1,104	21	51	49	515	529	502
C (70–79)	157	3	64	36	474	475	451
D, E, or F (below 70)	6	0	67	33	432	387	470
No Response	239		54	46	537	568	530
Mean Grade Point Average	All Students: 3.73		Male: 3.68		Female: 3.77		

Table 15: Average Years of Study in Six Academic Subjects

SAT	Average Years of Study			Grade Point Average: Each Subject		
	Male	Female	Total	Male	Female	Total
Arts and Music	2.3	2.8	2.5	3.87	3.94	3.91
English and Language Arts	4.0	4.1	4.1	3.65	3.79	3.73
Foreign and Classical Languages	3.1	3.3	3.2	3.62	3.78	3.71
Mathematics	4.2	4.1	4.2	3.62	3.58	3.60
Natural Sciences	3.9	3.9	3.9	3.66	3.65	3.66
Social Sciences and History	3.7	3.7	3.7	3.73	3.76	3.75
Total for All Subjects	21.2	21.9	21.6			

Note: Occasional updates are made to the optional Student Questionnaire to improve student response rates. Fluctuations from year to year should be interpreted with appropriate consideration.

Academic Information

Course-Taking Patterns

Table 16: English, Mathematics

English and Language Arts Years of Study	Test-Takers		Percent by Gender		SAT Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	841	18	41	59	598	622	590
4 Years	3,356	73	47	53	589	606	578
3 Years	296	6	46	54	524	546	516
2 Years	57	1	46	54	535	581	536
1 Year	29	1	45	55	491	606	492
1/2 Year or Less	19	0	74	26	512	618	498
No Response	778		51	49	571	603	565
AP®/Honors Courses	2,426	53	42	58	629	636	618
Course Work or Experience							
English/Language Arts	4,177	96	45	55	587	604	576
Journalism	597	14	35	65	578	581	570
Creative Writing	1,161	27	39	61	577	584	569
American Literature	3,103	72	45	55	589	604	578
Composition/Writing	2,529	58	44	56	581	596	571
British Literature	1,322	31	45	55	594	605	582
World Literature	1,790	41	46	54	591	603	583
Communications	532	12	45	55	562	600	560
Public Speaking	1,407	32	46	54	584	601	576
English As Second Language	274	6	46	54	476	624	505

Mathematics Years of Study	Test-Takers		Percent by Gender		SAT Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	1,359	29	51	49	610	651	598
4 Years	2,804	61	44	56	581	592	571
3 Years	348	8	40	60	534	530	526
2 Years	55	1	53	47	547	579	538
1 Year	25	1	52	48	449	590	481
1/2 Year or Less	16	0	63	38	513	559	500
No Response	769		51	49	572	604	566
AP/Honors Courses	2,546	55	50	50	621	658	613
Highest Level of Mathematics Achieved*							
Calculus	2,265	51	50	50	620	662	613
Pre-calculus	1,241	28	42	58	565	572	554
Trigonometry	326	7	43	57	546	533	525
Algebra II	558	12	40	60	512	498	501
Algebra I	39	1	46	54	483	452	452

*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.

Note: Occasional updates are made to the optional Student Questionnaire to improve student response rates. Fluctuations from year to year should be interpreted with appropriate consideration.

Academic Information

Course-Taking Patterns

Table 17: Natural Sciences, Social Sciences and History

Natural Sciences	Test-Takers		Percent by Gender		SAT Mean Scores			
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	990	22	49	51	614	654	603	
4 Years	2,419	53	46	54	591	609	582	
3 Years	890	19	43	57	553	553	540	
2 Years	156	3	47	53	553	563	547	
1 Year	81	2	51	49	509	558	501	
1/2 Year or Less	36	1	56	44	510	568	501	
No Response	804		52	48	570	602	563	
AP/Honors Courses	2,309	51	48	52	625	656	618	
Course Work or Experience								
Biology	4,254	98	46	54	586	604	576	
Chemistry	4,127	95	46	54	588	608	578	
Physics	3,022	69	49	51	596	623	586	
Geology, Earth, or Space Science	2,065	47	44	56	570	585	558	
Other Sciences	1,526	35	39	61	574	590	566	

Social Sciences and History	Test-Takers		Percent by Gender		SAT Mean Scores			
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	620	14	46	54	605	628	592	
4 Years	2,267	49	48	52	596	611	586	
3 Years	1,466	32	44	56	567	588	557	
2 Years	164	4	46	54	547	594	548	
1 Year	40	1	60	40	492	580	501	
1/2 Year or Less	24	1	58	42	481	559	477	
No Response	795		51	49	572	603	565	
AP/Honors Courses	2,171	47	47	53	632	644	619	
Course Work or Experience								
U.S. History	4,112	94	46	54	586	605	576	
World History or Cultures	3,789	87	45	55	586	603	576	
U.S. Government or Civics	3,776	87	46	54	586	604	574	
Economics	3,210	74	45	55	583	602	572	
Geography	1,110	25	46	54	560	582	551	
Psychology	1,447	33	38	62	585	598	573	
European History	1,125	26	47	53	608	615	593	
Sociology	534	12	38	62	563	576	548	
Ancient History	871	20	44	56	594	605	584	
Other Courses	757	17	41	59	585	599	575	

Note: Occasional updates are made to the optional Student Questionnaire to improve student response rates. Fluctuations from year to year should be interpreted with appropriate consideration.

Academic Information

Course-Taking Patterns

Table 18: Foreign and Classical Languages

Foreign and Classical Languages Years of Study	Test-Takers		Percent by Gender		SAT Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	555	12	40	60	613	640	610
4 Years	1,571	34	43	57	616	632	610
3 Years	1,034	23	48	52	584	604	571
2 Years	1,073	23	50	50	553	569	538
1 Year	196	4	53	47	498	524	482
1/2 Year or Less	151	3	57	43	508	558	496
No Response	796		51	49	570	603	563
AP/Honors Courses	1,100	24	41	59	644	661	638
Course Work or Experience							
Chinese	211	5	46	54	588	672	595
French	976	22	34	66	598	603	588
German	355	8	54	46	598	617	577
Greek	17	0	59	41	666	653	640
Hebrew	21	0	62	38	632	628	617
Italian	38	1	39	61	582	593	555
Japanese	126	3	48	52	579	626	575
Korean	21	0	38	62	542	656	545
Latin	313	7	54	46	627	628	608
Russian	18	0	39	61	502	532	499
Spanish	2,685	61	46	54	581	596	571
Other Languages	110	3	36	64	524	572	529

Note: Occasional updates are made to the optional Student Questionnaire to improve student response rates. Fluctuations from year to year should be interpreted with appropriate consideration.

Academic Information

Course-Taking Patterns

Table 19: Arts and Music, Computers

Arts and Music Years of Study	Test-Takers		Percent by Gender		SAT Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	521	12	37	63	591	605	581
4 Years	1,138	25	41	59	605	620	596
3 Years	492	11	37	63	571	589	564
2 Years	900	20	46	54	581	599	572
1 Year	920	20	51	49	582	610	568
1/2 Year or Less	554	12	64	36	559	586	550
No Response	851		53	47	574	605	566
AP/Honors Courses	345	8	36	64	626	633	622
Course Work or Experience							
Acting or Play Production	1,034	24	33	67	604	596	589
Art History or Appreciation	655	15	38	62	585	595	575
Dance	502	12	13	87	574	576	572
Drama: Study or Appreciation	651	15	31	69	585	585	574
Music: Study or Appreciation	680	16	41	59	601	607	591
Music Performance	2,394	56	42	58	602	620	593
Photography or Film	866	20	36	64	578	584	567
Studio Art and Design	1,125	26	35	65	586	600	578
None	565	13	67	33	546	586	533

Computers Course Work or Experience	Test-Takers		Percent by Gender		SAT Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Computer Literacy	2,748	66	45	55	588	604	577
Computer Programming	903	22	62	38	588	628	575
Word Processing	2,739	66	44	56	586	603	576
Internet Activity	2,157	52	46	54	588	604	576
Using Computer Graphics	1,489	36	49	51	578	597	568
Creating Spreadsheets/Databases	1,695	41	46	54	585	601	574
None	546	13	43	57	582	607	574

Note: Occasional updates are made to the optional Student Questionnaire to improve student response rates. Fluctuations from year to year should be interpreted with appropriate consideration.

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			
Number of Test-Takers	Number of Tests	Number of Test-Takers	Critical Reading Mean	Mathematics Mean	Writing Mean
2,210	5,695	1,452	659	693	656

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	106	5
2	1,024	46
3	849	38
4 or More	231	10

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

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

	SAT Subject Test			N	SAT						
	N	Mean	SD		Critical Reading Mean	SD	Mathematics Mean	SD	Writing Mean	SD	
English											
Literature	743	646	83	486	677	79	662	84	667	79	
History and Social Studies											
U.S. History	596	668	90	398	674	80	678	85	669	79	
World History	103	659	91	72	672	79	666	84	655	79	
Mathematics											
Mathematics Level 1	533	654	84	311	627	90	661	79	627	85	
Mathematics Level 2	1,507	720	77	1,045	662	90	717	63	665	83	
Science											
Biology-E	187	664	90	123	664	89	682	86	658	86	
Biology-M	378	689	83	264	677	77	706	70	676	78	
Chemistry	872	690	89	619	659	89	720	65	664	84	
Physics	388	685	86	272	655	99	721	65	650	90	
Foreign and Classical Languages											
Chinese/Listening	53	755	78	49	674	91	744	57	673	85	
French	70	606	100	50	674	85	667	86	676	65	
French/Listening	14	601		10	660		607		652		
German	6	652		4							
German/Listening	6	683		6	690		692		683		
Modern Hebrew	10	564		6	675		720		682		
Italian	2			2							
Japanese/Listening	10	686		7	599		691		620		
Korean/Listening	22	775		19	559		713		593		
Latin	15	563		13	680		671		672		
Spanish	154	607	108	105	672	74	675	70	673	70	
Spanish/Listening	26	608	90	23	664		672		683		

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	85	11	138	23	23	22
700-740	157	21	132	22	16	16
650-690	154	21	109	18	14	14
600-640	152	20	87	15	26	25
550-590	110	15	66	11	11	11
500-540	47	6	34	6	9	9
450-490	24	3	22	4	4	4
400-440	11	1	6	1		
350-390	3	0	2	0		
300-340						
250-290						
200-240						
Total	743		596		103	
Mean	646		668		659	
SD	83		90		91	
75th percentile	710		740		740	
50th percentile	650		680		650	
25th percentile	590		610		600	

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	60	11	712	47	41	22	104	28	281	32	105	27
700-740	136	26	280	19	34	18	99	26	188	22	94	24
650-690	129	24	227	15	37	20	76	20	163	19	75	19
600-640	87	16	173	11	37	20	52	14	99	11	55	14
550-590	64	12	84	6	23	12	25	7	77	9	31	8
500-540	34	6	24	2	7	4	8	2	38	4	19	5
450-490	12	2	5	0	4	2	9	2	14	2	4	1
400-440	6	1	2	0	2	1	3	1	9	1	4	1
350-390	5	1			2	1	2	1	3	0	1	0
300-340												
250-290												
200-240												
Total	533		1,507		187		378		872		388	
Mean	654		720		664		689		690		685	
SD	84		77		90		83		89		86	
75th percentile	720		800		730		750		760		750	
50th percentile	670		740		670		700		700		700	
25th percentile	600		660		610		640		630		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	42	79	5	7	3	21	2	33	2	33	2	20
700-740	5	9	7	10	1	7			1	17	1	10
650-690	3	6	15	21			1	17	1	17		
600-640			17	24	2	14	1	17	1	17		
550-590			8	11	4	29			1	17	1	10
500-540			9	13	1	7	1	17			1	10
450-490	3	6	3	4	1	7	1	17			3	30
400-440			4	6	2	14					1	10
350-390			1	1							1	10
300-340			1	1								
250-290												
200-240												
Total	53		70		14		6		6		10	
Mean	755		606		601		652		683		564	
SD	78		100									
75th percentile	800		670									
50th percentile	780		620									
25th percentile	750		540									

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	1	50	3	30	17	77	1	7	20	13	2	8
700-740			4	40	3	14			19	12	3	12
650-690	1	50			2	9	2	13	22	14	5	19
600-640							3	20	28	18	5	19
550-590			1	10			3	20	17	11	4	15
500-540			2	20			2	13	24	16	4	15
450-490							2	13	12	8	3	12
400-440							1	7	9	6		
350-390							1	7	2	1		
300-340									1	1		
250-290												
200-240												
Total	2		10		22		15		154		26	
Mean			686		775		563		607		608	
SD									108		90	
75th percentile					800				690		660	
50th percentile					800				610		600	
25th percentile					740				520		520	

College Plans

Table 26: Intended College Major, Degree-Level Goal

SAT Intended College Major	Test-Takers		Mean Scores		
	Number	Pct	Critical Reading	Mathematics	Writing
Agriculture, Agriculture Operations, and Related Sciences	24	1	568	598	560
Architecture and Related Services	61	1	533	588	523
Area, Ethnic, Cultural and Gender Studies	9	0	583	584	576
Biological and Biomedical Sciences	417	9	617	643	608
Business Management, Marketing, and Related Support Services	436	9	543	599	546
Communication, Journalism and Related Programs	131	3	582	561	571
Computer and Information Sciences and Support Services	101	2	575	619	556
Construction Trades	1	0			
Education	145	3	568	566	562
Engineering	595	13	603	658	587
Engineering Technologies/Technicians	31	1	519	594	509
English Language and Literature/Letters	106	2	663	597	633
Family and Consumer Sciences/Human Sciences	12	0	541	562	519
Foreign Languages, Literatures, and Linguistics	59	1	619	606	606
Health Professions and Related Clinical Services	907	19	575	607	575
History	55	1	642	621	611
Legal Professions and Studies	174	4	586	575	571
Liberal Arts and Sciences, General Studies, and Humanities	81	2	628	594	601
Library Science And Administration	4	0			
Mathematics and Statistics	52	1	596	680	587
Mechanic and Repair Technologies/Technician	2	0			
Military Technologies And Applied Sciences	5	0	528	530	498
Multi/Interdisciplinary Studies	16	0	578	631	605
Natural Resources and Conservation	29	1	588	606	569
Parks, Recreation, Leisure and Fitness Studies	4	0			
Personal and Culinary Services	8	0	470	468	485
Philosophy and Religious Studies	12	0	677	617	635
Physical Sciences	107	2	633	673	617
Precision Production					
Psychology	163	3	560	555	548
Public Administration and Social Services Professions	18	0	562	547	564
Security and Protective Services	33	1	492	517	489
Social Sciences	124	3	640	614	616
Theology and Religious Vocations	12	0	569	588	553
Transportation and Materials Moving	2	0			
Visual and Performing Arts	426	9	582	565	567
Other	40	1	535	551	512
Undecided	328	7	620	637	606
Degree-Level Goal					
Certificate Program	20	0	552	600	548
Associate Degree	13	0	411	487	418
Bachelor's Degree	947	20	540	553	525
Master's Degree	1,505	31	576	602	565
Doctoral or Related Degree	1,731	36	609	633	606
Other	14	0	561	566	562
Undecided	612	13	598	610	582

College Plans

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

Of the 6,134 students from your state who took the SAT and/or an SAT Subject Test, 4,510 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 1,078 institutions received score reports from your students.

Institution	State	Type	Number of Students	Percent of Score Senders*
UNIVERSITY OF MICHIGAN ANN ARBOR	MI	Public	2,157	47.8
MICHIGAN STATE UNIVERSITY	MI	Public	1,347	29.9
HARVARD UNDERGRADUATE ADMISSIONS	MA	Private	702	15.6
NORTHWESTERN UNIVERSITY'S MIDWEST ACDMC T	IL	Scholarship	680	15.1
NORTHWESTERN UNIVERSITY	IL	Private	674	14.9
NATIONAL MERIT SCHOLARSHIP PROGRAM	IL	Scholarship	574	12.7
PRINCETON UNIVERSITY	NJ	Private	516	11.4
MICHIGAN DEPARTMENT OF EDUCATION GIFTED	MI	Scholarship	496	11.0
CORNELL UNIVERSITY	NY	Private	474	10.5
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	MA	Private	474	10.5
YALE UNIVERSITY	CT	Private	455	10.1
COLUMBIA UNIVERSITY UNDERGRADUATE ADMISSIONS	NY	Private	439	9.7
STANFORD UNIVERSITY	CA	Private	418	9.3
UNIVERSITY OF PENNSYLVANIA UNDERGRADUATE	PA	Private	390	8.6
UNIVERSITY OF CHICAGO	IL	Private	353	7.8
BROWN UNIVERSITY	RI	Private	335	7.4
DUKE UNIVERSITY	NC	Private	295	6.5
GRAND VALLEY STATE UNIVERSITY	MI	Public	282	6.3
WASHINGTON UNIVERSITY	MO	Private	281	6.2
DARTMOUTH COLLEGE	NH	Private	276	6.1
WESTERN MICHIGAN UNIVERSITY	MI	Public	254	5.6
NEW YORK UNIVERSITY	NY	Private	238	5.3
PURDUE UNIVERSITY WEST LAFAYETTE	IN	Public	231	5.1
JOHNS HOPKINS UNIVERSITY UNDERGRADUATE ADMISSIONS	MD	Private	230	5.1
CARNEGIE MELLON UNIVERSITY	PA	Private	225	5.0
WAYNE STATE UNIVERSITY	MI	Public	222	4.9
UNIVERSITY OF NOTRE DAME	IN	Private	209	4.6
CENTRAL MICHIGAN UNIVERSITY	MI	Public	202	4.5
BOSTON UNIVERSITY	MA	Private	183	4.1
GEORGETOWN UNIVERSITY	DC	Private	174	3.9
EASTERN MICHIGAN UNIVERSITY	MI	Public	172	3.8
UNIVERSITY OF CALIFORNIA BERKELEY	CA	Public	169	3.7
KALAMAZOO COLLEGE	MI	Private	164	3.6
MICHIGAN TECHNOLOGICAL UNIVERSITY	MI	Public	161	3.6
NCAA ELIGIBILITY CENTER	IN	Public	159	3.5
CASE WESTERN RESERVE UNIVERSITY	OH	Private	158	3.5
VANDERBILT UNIVERSITY	TN	Private	139	3.1
OAKLAND UNIVERSITY	MI	Public	136	3.0
UNIVERSITY OF CALIFORNIA LOS ANGELES	CA	Public	136	3.0
UNIVERSITY OF ILLINOIS URBANA	IL	Public	133	2.9
CALIFORNIA INSTITUTE OF TECHNOLOGY	CA	Private	125	2.8
UNIVERSITY OF SOUTHERN CALIFORNIA	CA	Private	122	2.7
PENNSYLVANIA STATE UNIVERSITY	PA	Public	119	2.6
INDIANA UNIVERSITY BLOOMINGTON	IN	Public	117	2.6
UNIVERSITY OF WISCONSIN MADISON	WI	Public	117	2.6

*Of your students who designated that their SAT 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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866-392-3019
610-227-2580 (Fax)

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866-392-4086
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Western Regional Office

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866-392-4078
408-367-1459 (Fax)

Puerto Rico and Latin America Office

208 Ponce de León Avenue, Suite 1501
San Juan, PR 00918-1017
Mailing address:
P.O. Box 71101
San Juan, PR 00936-8001
787-772-1200
787-759-8629 (Fax - Reception area)
787-764-4306 (Fax - Director's office)

International Education Office

1233 20th Street NW, Suite 600
Washington, DC 20036-2375
202-741-4700
202-741-4745 (Fax)

Washington Office

1233 20th Street NW, Suite 600
Washington, DC 20036-2375
202-741-4700
202-741-4743 (Fax)

Florida Office

1545 Raymond Diehl Road, Suite 250
Tallahassee, FL 32308-1500
850-521-4900
850-521-4921 (Fax)