



2011 College-Bound Seniors

State Profile Report

MASSACHUSETTS

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	61,813	513	114	527	115	509	117	50.6	11.6	7.6	1.6

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	29,397	518	115	544	116	502	117	50.2	11.6	7.4	1.7
Female	32,416	509	112	512	112	514	116	50.9	11.6	7.8	1.5

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)	44,907	503	109	518	110	499	111	49.6	11.1	7.6	1.6
Junior (2009-2010)	16,811	538	123	551	123	534	126	53.1	12.6	7.8	1.7
Sophomore (2008-2009)	93	618	115	640	104	623	126	62.1	12.5	8.4	1.8
Freshman (2007-2008)	2										
Total	61,813	513	114	527	115	509	117	50.6	11.6	7.6	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	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	590	610	590	570	600	560
50th	510	520	500	490	510	480
25th	430	450	430	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	1,991	1,871	3,862	2,913	1,713	4,626	1,758	2,304	4,062
600–690	5,597	5,446	11,043	7,262	6,005	13,267	4,666	5,571	10,237
500–590	9,150	9,799	18,949	9,081	9,905	18,986	8,456	9,814	18,270
400–490	8,519	10,389	18,908	7,225	9,981	17,206	9,241	9,816	19,057
300–390	3,373	4,209	7,582	2,435	4,040	6,475	4,374	4,213	8,587
200–290	767	702	1,469	481	772	1,253	902	698	1,600

Table 7: Type of High School

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Public	49,991	83	46	54	505	521	500
Religiously Affiliated	5,982	10	54	46	538	543	540
Independent	4,317	7	51	49	590	608	596
Other or Unknown	1,523		51	49	446	453	432

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	4,659	8	477	112	480	112	464	110
Nonstandard Conditions	3,224	5	487	118	495	124	485	119

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	216	0	493	99	502	101	473	100
Asian, Asian American, or Pacific Islander	4,346	7	520	134	600	125	529	139
Black or African American	4,588	7	426	102	432	101	418	102
Mexican or Mexican American	191	0	505	113	510	106	490	110
Puerto Rican	1,383	2	423	99	432	101	416	97
Other Hispanic, Latino, or Latin American	3,244	5	441	106	452	109	434	108
White	44,086	71	531	105	541	104	527	107
Other	1,751	3	496	127	505	124	493	129
No Response	2,008	3	489	121	490	118	476	121
Total	61,813	100	513	114	527	115	509	117

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	105	0	506	107	526	99	473	111
Asian, Asian American, or Pacific Islander	2,151	3	519	138	611	126	521	143
Black or African American	2,104	3	423	103	441	104	408	101
Mexican or Mexican American	86	0	517	117	535	108	500	113
Puerto Rican	557	1	427	102	449	103	410	100
Other Hispanic, Latino, or Latin American	1,431	2	449	110	475	108	432	108
White	21,219	34	536	106	558	105	519	108
Other	743	1	503	130	526	126	489	130
No Response	1,001	2	495	121	507	117	472	118
Total	29,397	48	518	115	544	116	502	117

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	111	0	480	88	478	98	472	87
Asian, Asian American, or Pacific Islander	2,195	4	520	130	589	123	538	135
Black or African American	2,484	4	429	102	425	98	428	102
Mexican or Mexican American	105	0	495	109	489	99	481	107
Puerto Rican	826	1	420	97	420	97	420	95
Other Hispanic, Latino, or Latin American	1,813	3	435	103	435	106	436	108
White	22,867	37	527	103	526	101	534	106
Other	1,008	2	490	125	490	120	496	128
No Response	1,007	2	484	120	474	117	480	123
Total	32,416	52	509	112	512	112	514	116

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	61,813	100	513	114	527	115	509	117
First Language Learned								
English	48,522	80	524	108	533	108	518	110
English and Another	6,504	11	478	121	501	129	477	126
Another Language	5,416	9	457	128	514	142	464	136
No Response	1,371		497	133	503	134	487	136
Citizenship								
U.S. Citizen / U.S. National	56,185	95	518	111	529	111	513	113
U.S. Permanent Resident or Refugee	1,860	3	450	135	499	139	453	140
Citizen of Another Country	1,019	2	487	126	593	139	512	134
Other, Unknown, or No Response	2,749		454	124	481	134	449	129
Plans to Apply for Financial Aid								
Yes	40,640	77	507	108	519	108	501	110
No	3,471	7	566	114	588	114	573	117
Don't Know	8,697	16	535	114	556	116	533	118
No Response	9,005		497	129	515	129	492	132
Family Income								
\$0 - \$20,000	2,874	9	432	104	455	110	423	104
\$20,000–\$40,000	3,606	11	468	103	483	106	458	103
\$40,000–\$60,000	4,093	12	492	100	504	102	484	102
\$60,000–\$80,000	4,677	14	504	101	516	101	496	100
\$80,000–\$100,000	4,558	14	516	101	530	100	512	102
\$100,000–\$120,000	4,215	13	530	103	545	102	527	105
\$120,000–\$140,000	2,184	7	540	102	552	101	536	103
\$140,000–\$160,000	1,815	5	547	102	562	102	543	104
\$160,000–\$200,000	2,008	6	552	102	568	102	552	105
More than \$200,000	3,029	9	588	101	605	102	592	105
No Response	28,754		513	119	527	120	510	122
Highest Level of Parental Education								
No High School Diploma	2,192	4	415	98	451	112	410	99
High School Diploma	15,168	27	468	97	481	101	459	97
Associate Degree	5,186	9	484	94	496	96	475	95
Bachelor's Degree	18,549	33	531	101	545	102	528	103
Graduate Degree	15,602	28	579	110	590	110	578	113
No Response	5,116		454	113	472	118	447	115
Took the PSAT/NMSQT®								
Yes, As a Junior	20,851	37	515	110	529	111	511	112
Yes, As a Sophomore or Younger	9,434	17	513	109	528	110	509	111
Yes, As a Junior and As a Sophomore or Younger	16,827	30	551	107	566	105	552	108
No	9,119	16	464	105	475	109	450	105
No Response	5,582		471	124	489	129	465	127

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	6,425	30	43	57	602	625	606
Second Tenth	5,563	26	46	54	537	561	536
Second Fifth	4,114	19	52	48	507	526	500
Final Three Fifths	5,290	25	54	46	454	466	445
No Response	40,421		47	53	504	515	499

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)	1,219	2	42	58	611	629	618
A (93–96)	6,391	11	39	61	595	614	600
A- (90–92)	10,474	19	41	59	569	589	572
B (80–89)	30,069	53	48	52	499	513	494
C (70–79)	7,781	14	58	42	432	439	418
D, E, or F (below 70)	369	1	61	39	415	427	401
No Response	5,510		50	50	487	493	474
Mean Grade Point Average	All Students: 3.17		Male: 3.09		Female: 3.24		

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	2.0	2.4	2.2	3.57	3.77	3.68
English and Language Arts	3.9	3.9	3.9	3.11	3.36	3.24
Foreign and Classical Languages	3.0	3.2	3.1	3.05	3.32	3.20
Mathematics	3.9	3.9	3.9	3.11	3.13	3.12
Natural Sciences	3.7	3.6	3.7	3.14	3.20	3.17
Social Sciences and History	3.7	3.7	3.7	3.25	3.31	3.28
Total for All Subjects	20.2	20.7	20.5			

Academic Information

Course-Taking Patterns

Table 16: English, Mathematics

English and Language Arts	Test-Takers		Percent by Gender		SAT Mean Scores			
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	5,264	11	46	54	533	549	532	
4 Years	37,316	75	47	53	523	536	519	
3 Years	5,528	11	44	56	477	491	473	
2 Years	688	1	49	51	469	502	470	
1 Year	326	1	46	54	469	495	463	
1/2 Year or Less	426	1	52	48	449	465	432	
No Response	12,265		51	49	495	512	490	
AP®/Honors Courses	19,258	39	39	61	572	577	571	
Course Work or Experience								
English/Language Arts	43,487	97	46	54	518	530	513	
Journalism	4,412	10	40	60	516	518	515	
Creative Writing	12,917	29	41	59	520	522	517	
American Literature	30,908	69	46	54	526	537	522	
Composition/Writing	24,795	55	45	55	518	528	515	
British Literature	12,233	27	46	54	541	547	536	
World Literature	15,370	34	47	53	528	536	523	
Communications	3,137	7	48	52	501	515	498	
Public Speaking	6,929	15	44	56	531	539	529	
English As Second Language	2,353	5	45	55	437	502	446	

Mathematics	Test-Takers		Percent by Gender		SAT Mean Scores			
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	7,129	14	50	50	535	570	534	
4 Years	33,591	68	47	53	523	535	519	
3 Years	7,461	15	43	57	484	484	476	
2 Years	669	1	49	51	469	493	463	
1 Year	299	1	45	55	466	492	463	
1/2 Year or Less	440	1	50	50	453	458	434	
No Response	12,224		51	49	495	511	490	
AP/Honors Courses	17,783	36	48	52	573	607	573	
Highest Level of Mathematics Achieved*								
Calculus	12,309	26	50	50	579	617	581	
Pre-calculus	14,688	31	44	56	531	548	528	
Trigonometry	4,862	10	45	55	492	496	485	
Algebra II	13,173	28	45	55	466	460	456	
Algebra I	1,422	3	47	53	430	416	420	

*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	5,554	11	48	52	545	573	544	
4 Years	27,221	56	47	53	531	545	528	
3 Years	12,191	25	45	55	493	500	487	
2 Years	1,987	4	52	48	477	493	466	
1 Year	843	2	50	50	481	497	472	
1/2 Year or Less	1,000	2	44	56	447	460	435	
No Response	13,017		50	50	493	510	488	
AP/Honors Courses	17,413	36	45	55	578	601	578	
Course Work or Experience								
Biology	44,853	98	46	54	518	531	514	
Chemistry	41,758	91	46	54	523	538	519	
Physics	27,548	60	50	50	535	556	532	
Geology, Earth, or Space Science	17,175	37	47	53	507	515	500	
Other Sciences	17,441	38	41	59	509	519	504	

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	4,866	10	49	51	542	553	538	
4 Years	27,578	56	48	52	530	540	526	
3 Years	14,068	29	44	56	494	514	491	
2 Years	1,714	3	48	52	478	503	470	
1 Year	442	1	49	51	471	495	464	
1/2 Year or Less	554	1	47	53	438	462	426	
No Response	12,591		51	49	494	511	489	
AP/Honors Courses	19,585	40	45	55	574	583	571	
Course Work or Experience								
U.S. History	43,676	96	46	54	517	530	513	
World History or Cultures	37,367	82	46	54	522	535	518	
U.S. Government or Civics	13,596	30	49	51	511	520	505	
Economics	5,922	13	58	42	531	552	525	
Geography	4,852	11	47	53	499	510	495	
Psychology	13,855	30	36	64	519	525	517	
European History	13,401	29	49	51	546	554	542	
Sociology	6,284	14	38	62	503	508	497	
Ancient History	8,352	18	50	50	540	547	535	
Other Courses	7,700	17	45	55	521	528	514	

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	4,463	9	42	58	565	580	569
4 Years	16,500	34	42	58	559	570	561
3 Years	14,926	30	48	52	513	528	508
2 Years	9,311	19	53	47	468	480	454
1 Year	1,286	3	51	49	442	457	426
1/2 Year or Less	2,490	5	53	47	428	449	412
No Response	12,837		51	49	493	510	488
AP/Honors Courses	14,228	29	40	60	581	595	586
Course Work or Experience							
Chinese	1,487	3	51	49	546	591	544
French	9,162	20	40	60	542	548	538
German	982	2	59	41	555	561	544
Greek	271	1	54	46	572	570	563
Hebrew	188	0	47	53	577	583	587
Italian	1,455	3	44	56	501	514	499
Japanese	244	1	48	52	555	576	542
Korean	76	0	55	45	511	581	529
Latin	5,950	13	47	53	564	572	557
Russian	217	0	56	44	527	546	532
Spanish	30,158	66	46	54	513	526	510
Other Languages	1,634	4	44	56	477	495	470

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	Test-Takers		Percent by Gender		SAT Mean Scores			
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	3,046	6	40	60	542	550	541	
4 Years	10,191	22	39	61	547	550	546	
3 Years	6,797	14	42	58	522	531	520	
2 Years	9,291	20	49	51	518	533	514	
1 Year	7,173	15	51	49	513	532	508	
1/2 Year or Less	10,743	23	54	46	486	507	477	
No Response	14,572		51	49	496	514	491	
AP/Honors Courses	4,421	9	38	62	580	585	581	
Course Work or Experience								
Acting or Play Production	8,162	19	35	65	561	550	556	
Art History or Appreciation	6,304	14	41	59	521	525	518	
Dance	5,601	13	11	89	515	519	523	
Drama: Study or Appreciation	6,377	15	33	67	540	533	537	
Music: Study or Appreciation	7,012	16	55	45	553	553	547	
Music Performance	15,282	35	43	57	550	557	548	
Photography or Film	10,936	25	38	62	529	535	527	
Studio Art and Design	13,015	30	37	63	535	544	534	
None	9,635	22	58	42	481	506	473	

Computers	Test-Takers		Percent by Gender		SAT Mean Scores		
Course Work or Experience	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Computer Literacy	23,874	56	47	53	524	535	519
Computer Programming	7,633	18	61	39	512	541	506
Word Processing	23,155	54	45	55	524	535	519
Internet Activity	18,187	43	47	53	525	537	520
Using Computer Graphics	14,939	35	51	49	520	536	514
Creating Spreadsheets/Databases	14,064	33	47	53	527	541	521
None	8,331	20	41	59	509	522	508

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
16,573	43,522	16,381	611	633	615

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	1,469	9
2	6,822	41
3	5,741	35
4 or More	2,541	15

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			SAT						
	N	Mean	SD	N	Critical Reading Mean	SD	Mathematics Mean	SD	Writing Mean	SD
English										
Literature	6,346	607	100	6,279	631	96	612	90	630	97
History and Social Studies										
U.S. History	6,388	634	98	6,331	634	90	632	88	632	93
World History	738	618	110	731	644	96	635	99	635	100
Mathematics										
Mathematics Level 1	7,579	609	88	7,501	587	98	619	85	595	100
Mathematics Level 2	7,215	678	89	7,143	631	100	684	74	641	98
Science										
Biology-E	2,482	629	99	2,444	621	99	639	92	623	102
Biology-M	2,751	646	95	2,726	631	95	652	86	638	94
Chemistry	4,136	643	101	4,097	631	103	678	82	639	101
Physics	1,830	651	92	1,815	630	103	696	75	634	100
Foreign and Classical Languages										
Chinese/Listening	175	731	96	174	557	128	659	88	568	125
French	840	611	110	832	643	98	635	91	653	100
French/Listening	248	655	97	247	641	88	637	78	648	88
German	55	624	107	54	672	82	652	90	659	77
German/Listening	40	643	108	39	637	101	637	96	663	100
Modern Hebrew	28	645	135	27	661	87	692	70	680	76
Italian	51	663	106	50	609	109	604	80	625	115
Japanese/Listening	52	673	102	49	626	121	658	88	623	120
Korean/Listening	71	783	44	69	578	99	695	80	620	99
Latin	548	622	101	545	671	87	678	78	674	86
Spanish	1,686	620	114	1,670	606	109	615	101	622	112
Spanish/Listening	263	627	105	263	623	95	620	93	637	95

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	455	7	858	13	105	14
700-740	952	15	1,177	18	110	15
650-690	1,090	17	1,132	18	106	14
600-640	1,122	18	1,069	17	93	13
550-590	1,031	16	840	13	108	15
500-540	755	12	683	11	86	12
450-490	513	8	390	6	83	11
400-440	292	5	170	3	38	5
350-390	111	2	60	1	9	1
300-340	25	0	9	0		
250-290						
200-240						
Total	6,346		6,388		738	
Mean	607		634		618	
SD	100		98		110	
75th percentile	680		710		710	
50th percentile	620		640		620	
25th percentile	540		560		530	

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	329	4	2,080	29	297	12	424	15	751	18	321	18
700-740	1,037	14	1,153	16	444	18	540	20	673	16	298	16
650-690	1,503	20	1,248	17	455	18	521	19	751	18	366	20
600-640	1,505	20	1,400	19	439	18	488	18	639	15	324	18
550-590	1,429	19	828	11	350	14	366	13	567	14	272	15
500-540	948	13	351	5	243	10	219	8	391	9	156	9
450-490	503	7	107	1	144	6	107	4	219	5	72	4
400-440	230	3	42	1	60	2	54	2	113	3	15	1
350-390	88	1	5	0	35	1	26	1	29	1	6	0
300-340	6	0	1	0	15	1	6	0	3	0		
250-290	1	0										
200-240												
Total	7,579		7,215		2,482		2,751		4,136		1,830	
Mean	609		678		629		646		643		651	
SD	88		89		99		95		101		92	
75th percentile	680		750		710		720		720		720	
50th percentile	620		680		640		660		650		650	
25th percentile	550		610		560		580		570		580	

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	115	66	111	13	53	21	9	16	11	28	9	32
700-740	15	9	104	12	37	15	5	9	4	10	1	4
650-690	14	8	137	16	53	21	9	16	7	18	6	21
600-640	11	6	116	14	42	17	10	18	4	10	2	7
550-590	4	2	102	12	25	10	8	15	9	23	3	11
500-540	8	5	128	15	23	9	7	13	2	5	2	7
450-490	7	4	80	10	11	4	5	9			1	4
400-440	1	1	51	6	4	2	1	2	1	3	3	11
350-390			10	1			1	2	2	5	1	4
300-340			1	0								
250-290												
200-240												
Total	175		840		248		55		40		28	
Mean	731		611		655		624		643		645	
SD	96		110		97		107		108		135	
75th percentile	800		700		730		690		750		790	
50th percentile	780		610		660		610		650		660	
25th percentile	680		520		590		530		570		530	

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	11	22	18	35	64	90	72	13	261	15	43	16
700-740	12	24	8	15	4	6	91	17	256	15	34	13
650-690	11	22	5	10	2	3	78	14	252	15	47	18
600-640	4	8	7	13			81	15	246	15	44	17
550-590	6	12	8	15			86	16	221	13	33	13
500-540	2	4	4	8	1	1	65	12	195	12	29	11
450-490	3	6	1	2			57	10	124	7	16	6
400-440	1	2	1	2			17	3	80	5	13	5
350-390	1	2					1	0	34	2	3	1
300-340									15	1	1	0
250-290									2	0		
200-240												
Total	51		52		71		548		1,686		263	
Mean	663		673		783		622		620		627	
SD	106		102		44		101		114		105	
75th percentile	740		760		800		700		710		710	
50th percentile	680		680		800		620		630		640	
25th percentile	580		580		790		540		540		550	

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	251	0	485	490	468
Architecture and Related Services	835	2	500	545	498
Area, Ethnic, Cultural and Gender Studies	56	0	607	570	590
Biological and Biomedical Sciences	3,139	6	556	573	555
Business Management, Marketing, and Related Support Services	6,352	12	502	537	501
Communication, Journalism and Related Programs	1,554	3	528	513	531
Computer and Information Sciences and Support Services	1,019	2	528	559	502
Construction Trades	81	0	422	451	403
Education	2,778	5	492	499	494
Engineering	3,778	7	538	592	526
Engineering Technologies/Technicians	731	1	474	521	456
English Language and Literature/Letters	972	2	597	545	588
Family and Consumer Sciences/Human Sciences	166	0	465	466	462
Foreign Languages, Literatures, and Linguistics	472	1	602	578	601
Health Professions and Related Clinical Services	7,903	15	494	511	499
History	916	2	562	531	536
Legal Professions and Studies	1,505	3	515	515	506
Liberal Arts and Sciences, General Studies, and Humanities	789	2	563	545	558
Library Science And Administration	12	0	549	488	523
Mathematics and Statistics	642	1	538	622	538
Mechanic and Repair Technologies/Technician	133	0	415	443	392
Military Technologies And Applied Sciences	59	0	469	483	436
Multi/Interdisciplinary Studies	87	0	593	588	583
Natural Resources and Conservation	315	1	545	549	538
Parks, Recreation, Leisure and Fitness Studies	433	1	467	501	465
Personal and Culinary Services	264	1	455	460	440
Philosophy and Religious Studies	110	0	583	562	561
Physical Sciences	704	1	571	605	563
Precision Production	3	0			
Psychology	2,693	5	516	506	512
Public Administration and Social Services Professions	161	0	474	468	470
Security and Protective Services	1,618	3	460	471	449
Social Sciences	1,024	2	598	572	587
Theology and Religious Vocations	48	0	521	515	516
Transportation and Materials Moving	28	0	495	512	483
Visual and Performing Arts	3,832	7	519	509	515
Other	1,115	2	462	475	454
Undecided	5,948	11	545	563	544
Degree-Level Goal					
Certificate Program	416	1	452	470	434
Associate Degree	656	1	414	422	403
Bachelor's Degree	17,785	33	489	504	483
Master's Degree	15,416	29	524	539	521
Doctoral or Related Degree	8,011	15	557	572	557
Other	322	1	428	453	423
Undecided	11,204	21	530	541	525

College Plans

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

Of the 62,005 students from your state who took the SAT and/or an SAT Subject Test, 48,028 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 1,899 institutions received score reports from your students.

Institution	State	Type	Number of Students	Percent of Score Senders*
UNIVERSITY OF MASSACHUSETTS AMHERST	MA	Public	17,764	37.0
NORTHEASTERN UNIVERSITY	MA	Private	9,820	20.4
UNIVERSITY OF MASSACHUSETTS DARTMOUTH	MA	Public	7,103	14.8
BOSTON UNIVERSITY	MA	Private	6,380	13.3
UNIVERSITY OF MASSACHUSETTS LOWELL	MA	Public	6,201	12.9
UNIVERSITY OF NEW HAMPSHIRE DURHAM	NH	Public	6,127	12.8
BRIDGEWATER STATE COLLEGE	MA	Public	6,125	12.8
UNIVERSITY OF RHODE ISLAND	RI	Public	5,080	10.6
BOSTON COLLEGE	MA	Private	4,818	10.0
WESTFIELD STATE UNIVERSITY	MA	Public	4,753	9.9
SALEM STATE COLLEGE	MA	Public	4,742	9.9
UNIVERSITY OF MASSACHUSETTS BOSTON	MA	Public	4,641	9.7
UNIVERSITY OF VERMONT	VT	Public	4,609	9.6
FRAMINGHAM STATE COLLEGE	MA	Public	4,365	9.1
UNIVERSITY OF CONNECTICUT	CT	Public	4,058	8.4
SUFFOLK UNIVERSITY	MA	Private	3,863	8.0
QUINNIPIAC UNIVERSITY	CT	Private	3,617	7.5
WORCESTER STATE COLLEGE	MA	Public	3,406	7.1
ROGER WILLIAMS UNIVERSITY	RI	Private	3,204	6.7
TUFTS UNIVERSITY	MA	Private	2,932	6.1
FITCHBURG STATE UNIVERSITY	MA	Public	2,906	6.1
BROWN UNIVERSITY	RI	Private	2,678	5.6
STONEHILL COLLEGE	MA	Private	2,538	5.3
HARVARD UNDERGRADUATE ADMISSIONS	MA	Private	2,507	5.2
CURRY COLLEGE	MA	Private	2,415	5.0
EMMANUEL COLLEGE	MA	Private	2,412	5.0
WORCESTER POLYTECHNIC INSTITUTE	MA	Private	2,368	4.9
NCAA ELIGIBILITY CENTER	IN	Public	2,253	4.7
SYRACUSE UNIVERSITY	NY	Private	2,212	4.6
BENTLEY UNIVERSITY	MA	Private	2,191	4.6
PROVIDENCE COLLEGE	RI	Private	2,130	4.4
ENDICOTT COLLEGE	MA	Private	2,000	4.2
CORNELL UNIVERSITY	NY	Private	1,916	4.0
NEW YORK UNIVERSITY	NY	Private	1,897	3.9
MASSACHUSETTS COLLEGE OF PHARMACY AND HE	MA	Private	1,862	3.9
KEENE STATE COLLEGE	NH	Public	1,858	3.9
WENTWORTH INSTITUTE OF TECHNOLOGY	MA	Private	1,806	3.8
MERRIMACK COLLEGE	MA	Private	1,778	3.7
WESTERN NEW ENGLAND COLLEGE	MA	Private	1,765	3.7
ASSUMPTION COLLEGE	MA	Private	1,745	3.6
DARTMOUTH COLLEGE	NH	Private	1,641	3.4
BRYANT UNIVERSITY	RI	Private	1,640	3.4
COLLEGE OF THE HOLY CROSS	MA	Private	1,598	3.3
SAINT ANSELM COLLEGE	NH	Private	1,595	3.3
BRANDEIS UNIVERSITY	MA	Private	1,556	3.2

*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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