



2013 College-Bound Seniors

State Profile Report



MASSACHUSETTS

Included in This Report

[SAT® Data](#)

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DATA EMBARGO IN EFFECT *This report contains information on college-bound students in the class of 2013 who took the SAT® or SAT Subject Tests™ at any time during high school. **Data and other information in this report are embargoed from dissemination to the media and general public until the College Board's press conference in mid-September.** You may use the data and other information in this report for internal purposes prior to the College-Bound Seniors press conference. If you have any questions about the embargo or the College-Board national press conference, please contact the College Board communications department at communications@collegeboard.org.*

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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 2013 includes students who tested through June 2013.

Using This Report

College-Bound Seniors presents data on high school graduates in the year 2013 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.
- 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 and in schoolwork.
- 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 website 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.

About the College Board

The College Board is a mission-driven not-for-profit organization that connects students to college success and opportunity. Founded in 1900, the College Board was created to expand access to higher education. Today, the membership association is made up of over 6,000 of the world's leading educational institutions and is dedicated to promoting excellence and equity in education. Each year, the College Board helps more than seven million students prepare for a successful transition to college through programs and services in college readiness and college success — including the SAT® and the Advanced Placement Program® (AP®). The organization also serves the education community through research and advocacy on behalf of students, educators and schools. For further information, visit www.collegeboard.org.

Total Group Mean SAT Scores

College-Bound Seniors, 1972–2013

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
2012	498	493	496	532	499	514	481	494	488
2013	499	494	496	531	499	514	482	493	488

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 2000–2013, 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 www.collegeboard.org/cbs.

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SAT® Data

Data in this report are for high school graduates in the year 2013. Information is summarized for seniors who took the SAT at any time during their high school years through June 2013. 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	60,791	515	115	529	115	509	116	50.6	11.6	7.4	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	28,751	518	117	546	116	505	117	50.5	11.6	7.3	1.7
Female	32,040	511	113	514	112	513	115	50.8	11.5	7.5	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 (2012-2013)	44,226	504	110	521	110	500	110	49.7	11.0	7.3	1.6
Junior (2011-2012)	16,505	541	123	551	125	534	127	53.3	12.6	7.7	1.6
Sophomore (2010-2011)	56	629	128	644	109	602	122	61.1	12.4	7.9	1.5
Freshman (2009-2010)	4										
Total	60,791	515	115	529	115	509	116	50.6	11.6	7.4	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	1,660,047	496	115	514	118	488	114	49.0	11.5	7.1	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 2013 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.

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

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	530	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	2,104	1,984	4,088	3,151	1,992	5,143	1,736	2,081	3,817
600-690	5,318	5,352	10,670	6,734	5,678	12,412	4,721	5,666	10,387
500-590	8,885	9,962	18,847	9,098	10,106	19,204	8,269	9,474	17,743
400-490	8,420	10,157	18,577	6,916	9,741	16,657	9,021	10,091	19,112
300-390	3,243	3,778	7,021	2,393	3,798	6,191	4,146	3,996	8,142
200-290	781	807	1,588	459	725	1,184	858	732	1,590

Table 7: Type of High School

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Public	49,829	83	46	54	506	521	500
Religiously Affiliated	5,694	10	55	45	537	546	538
Independent	4,327	7	50	50	592	608	594
Other or Unknown	941		46	54	466	465	455

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	4,487	7	478	113	481	112	467	109
Nonstandard Conditions	3,530	6	490	122	498	125	486	120

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

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	177	0	501	105	516	100	494	100
Asian, Asian American, or Pacific Islander	4,791	8	527	138	604	124	531	140
Black or African American	4,686	8	431	107	439	103	425	103
Mexican or Mexican American	232	0	497	103	503	104	484	97
Puerto Rican	1,394	2	430	99	441	97	422	98
Other Hispanic, Latino, or Latin American	3,337	5	439	109	455	108	435	107
White	42,591	70	533	105	541	105	527	106
Other	1,854	3	504	132	511	128	498	132
No Response	1,729	3	492	125	498	120	481	121
Total	60,791	100	515	115	529	115	509	116

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	90	0	501	107	531	103	487	101
Asian, Asian American, or Pacific Islander	2,314	4	528	141	614	124	525	142
Black or African American	2,190	4	429	107	448	104	417	102
Mexican or Mexican American	112	0	487	102	503	106	472	91
Puerto Rican	594	1	431	103	457	101	417	102
Other Hispanic, Latino, or Latin American	1,467	2	444	111	475	109	433	108
White	20,334	33	536	106	558	106	522	108
Other	801	1	511	135	530	133	498	133
No Response	849	1	495	126	514	123	474	122
Total	28,751	47	518	117	546	116	505	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	87	0	500	102	499	94	500	100
Asian, Asian American, or Pacific Islander	2,477	4	526	135	595	123	537	138
Black or African American	2,496	4	432	107	432	101	432	103
Mexican or Mexican American	120	0	506	103	502	101	496	100
Puerto Rican	800	1	429	95	428	93	426	95
Other Hispanic, Latino, or Latin American	1,870	3	434	107	440	105	435	107
White	22,257	37	529	103	526	102	531	104
Other	1,053	2	499	130	496	122	499	131
No Response	880	1	489	124	482	114	487	119
Total	32,040	53	511	113	514	112	513	115

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	60,791	100	515	115	529	115	509	116
First Language Learned								
English	46,323	79	526	108	534	108	520	109
English and Another	6,725	12	486	124	509	128	483	126
Another Language	5,403	9	455	129	516	141	461	131
No Response	2,340		498	135	512	134	493	137
Citizenship								
U.S. Citizen / U.S. National	54,059	95	521	111	532	112	515	112
U.S. Permanent Resident or Refugee	1,821	3	447	139	499	138	451	136
Citizen of Another Country	1,017	2	476	123	587	132	499	131
Other, Unknown, or No Response	3,894		464	130	492	136	461	130
Plans to Apply for Financial Aid								
Yes	38,260	77	509	108	520	108	502	107
No	3,064	6	571	113	592	113	575	117
Don't Know	8,106	16	540	117	559	117	536	119
No Response	11,361		501	129	521	129	497	130
Family Income								
\$0 - \$20,000	2,187	9	428	105	454	111	420	102
\$20,000–\$40,000	2,808	11	467	105	483	103	458	101
\$40,000–\$60,000	2,907	12	492	102	503	100	483	101
\$60,000–\$80,000	3,217	13	504	99	511	99	493	97
\$80,000–\$100,000	3,166	13	514	103	525	103	506	101
\$100,000–\$120,000	3,090	12	527	101	542	103	519	100
\$120,000–\$140,000	1,817	7	534	105	545	108	527	105
\$140,000–\$160,000	1,337	5	546	106	556	106	536	105
\$160,000–\$200,000	1,754	7	552	105	567	105	551	107
More than \$200,000	2,824	11	586	105	606	104	590	107
No Response	35,684		516	118	530	118	512	119
Highest Level of Parental Education								
No High School Diploma	2,031	4	419	106	460	118	416	105
High School Diploma	13,278	25	469	98	484	101	461	96
Associate Degree	4,749	9	483	93	494	95	475	92
Bachelor's Degree	17,624	33	532	102	545	105	528	103
Graduate Degree	15,314	29	583	109	593	110	580	111
No Response	7,795		462	112	484	111	457	110
Took the PSAT/NMSQT®								
Yes, As a Junior	19,126	36	516	111	530	112	512	112
Yes, As a Sophomore or Younger	9,725	18	514	108	527	109	508	109
Yes, As a Junior and As a Sophomore or Younger	15,919	30	551	106	566	105	549	106
No	8,065	15	471	112	482	113	459	111
No Response	7,956		482	127	502	127	478	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	5,599	31	42	58	600	625	601
Second Tenth	4,663	26	45	55	535	558	531
Second Fifth	3,378	19	52	48	504	523	498
Final Three Fifths	4,196	24	52	48	452	463	443
No Response	42,955		47	53	508	520	503

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)	1,376	3	41	59	614	628	616
A (93–96)	7,236	13	38	62	593	612	593
A- (90–92)	10,753	20	41	59	563	582	563
B (80–89)	27,799	52	49	51	495	509	489
C (70–79)	6,332	12	60	40	431	439	419
D, E, or F (below 70)	278	1	61	39	415	416	401
No Response	7,017		50	50	497	506	487
Mean Grade Point Average	All Students: 3.23		Male: 3.14		Female: 3.31		

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	3.58	3.80	3.70
English and Language Arts	3.9	3.9	3.9	3.15	3.41	3.29
Foreign and Classical Languages	3.0	3.2	3.1	3.09	3.37	3.24
Mathematics	3.9	3.9	3.9	3.15	3.18	3.16
Natural Sciences	3.7	3.7	3.7	3.18	3.25	3.22
Social Sciences and History	3.7	3.7	3.7	3.28	3.36	3.32
Total for All Subjects	20.2	20.8	20.5			

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	5,025	11	45	55	534	550	533
4 Years	34,665	76	47	53	525	537	519
3 Years	4,692	10	45	55	476	489	472
2 Years	703	2	48	52	486	513	481
1 Year	339	1	47	53	465	489	461
1/2 Year or Less	476	1	52	48	441	467	434
No Response	14,891		50	50	502	520	497
AP®/Honors Courses	19,536	43	39	61	569	575	566
Course Work or Experience							
English/Language Arts	39,629	96	45	55	520	532	514
Journalism	3,765	9	40	60	514	517	513
Creative Writing	10,613	26	41	59	522	524	518
American Literature	25,999	63	45	55	530	540	525
Composition/Writing	19,290	47	44	56	520	530	516
British Literature	10,364	25	43	57	542	547	536
World Literature	12,721	31	45	55	531	540	527
Communications	2,422	6	47	53	496	512	494
Public Speaking	6,023	15	45	55	532	541	530
English As Second Language	1,990	5	44	56	433	502	443

Mathematics Years of Study	Test-Takers		Percent by Gender		SAT Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	6,812	15	49	51	538	571	536
4 Years	31,790	69	46	54	524	535	518
3 Years	5,863	13	43	57	484	486	477
2 Years	629	1	50	50	482	510	479
1 Year	326	1	50	50	471	510	466
1/2 Year or Less	535	1	49	51	438	450	430
No Response	14,836		50	50	502	519	497
AP/Honors Courses	17,945	39	47	53	569	603	567
Highest Level of Mathematics Achieved*							
Calculus	14,821	34	49	51	576	612	574
Pre-calculus	13,979	32	43	57	514	524	509
Geometry	13,153	30	45	55	465	458	456
Algebra II	536	1	46	54	450	455	442
Algebra I	152	0	46	54	433	414	418

*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	5,355	12	47	53	547	574	545	
4 Years	25,639	57	46	54	532	545	527	
3 Years	10,399	23	45	55	493	499	487	
2 Years	1,809	4	53	47	482	496	472	
1 Year	861	2	49	51	481	501	470	
1/2 Year or Less	1,060	2	46	54	445	464	440	
No Response	15,668		50	50	500	518	495	
AP/Honors Courses	17,715	39	45	55	575	597	572	
Course Work or Experience								
Biology	40,811	97	45	55	520	533	515	
Chemistry	38,691	92	45	55	524	538	519	
Physics	29,096	69	49	51	534	554	529	
Geology, Earth, or Space Science	15,748	37	47	53	511	518	504	
Other Sciences	18,152	43	40	60	511	519	505	

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	4,673	10	47	53	540	554	537	
4 Years	25,790	57	47	53	532	541	526	
3 Years	12,539	27	44	56	496	515	491	
2 Years	1,537	3	48	52	481	506	474	
1 Year	476	1	49	51	471	502	468	
1/2 Year or Less	609	1	49	51	433	457	426	
No Response	15,167		50	50	501	519	496	
AP/Honors Courses	19,633	43	44	56	571	580	566	
Course Work or Experience								
U.S. History	39,942	96	45	55	519	532	514	
World History or Cultures	33,179	80	45	55	524	537	519	
U.S. Government or Civics	12,420	30	48	52	514	523	507	
Economics	6,149	15	58	42	534	555	528	
Geography	3,524	8	49	51	495	512	492	
Psychology	16,355	39	35	65	523	531	520	
European History	10,736	26	48	52	551	556	545	
Sociology	7,037	17	37	63	506	510	500	
Ancient History	5,977	14	49	51	542	549	535	
Other Courses	8,141	20	44	56	523	529	517	

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	4,004	9	41	59	569	581	572
4 Years	14,816	33	42	58	561	572	560
3 Years	13,717	30	48	52	514	530	509
2 Years	8,984	20	52	48	474	485	462
1 Year	1,253	3	48	52	445	460	434
1/2 Year or Less	2,524	6	52	48	432	449	415
No Response	15,493		50	50	499	518	495
AP/Honors Courses	13,914	31	39	61	577	592	579
Course Work or Experience							
Chinese	1,618	4	49	51	544	585	540
French	8,239	20	38	62	544	549	538
German	896	2	54	46	555	553	538
Greek	262	1	49	51	567	574	561
Hebrew	158	0	44	56	572	583	573
Italian	1,369	3	43	57	505	516	503
Japanese	234	1	47	53	531	570	525
Korean	78	0	35	65	504	555	511
Latin	5,171	12	49	51	564	572	557
Russian	191	0	50	50	561	566	558
Spanish	27,089	65	46	54	515	528	511
Other Languages	1,681	4	42	58	486	505	478

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		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Years of Study							
More Than 4 Years	2,932	7	40	60	548	555	546
4 Years	9,367	21	38	62	547	550	544
3 Years	6,133	14	41	59	519	528	516
2 Years	8,662	20	46	54	517	533	513
1 Year	6,691	15	51	49	515	535	509
1/2 Year or Less	9,832	23	55	45	489	509	479
No Response	17,174		51	49	502	521	497
AP/Honors Courses	4,431	10	36	64	578	583	578
Course Work or Experience							
Acting or Play Production	7,147	18	35	65	559	550	553
Art History or Appreciation	5,405	14	39	61	521	525	518
Dance	4,582	11	11	89	519	523	524
Drama: Study or Appreciation	5,849	15	33	67	540	535	537
Music: Study or Appreciation	6,199	16	52	48	550	550	542
Music Performance	13,992	35	43	57	551	558	546
Photography or Film	9,605	24	38	62	528	535	525
Studio Art and Design	11,896	30	36	64	535	543	532
None	8,748	22	57	43	483	506	474

Computers	Test-Takers		Percent by Gender		SAT Mean Scores		
Course Work or Experience	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Computer Literacy	20,540	53	47	53	526	536	519
Computer Programming	7,034	18	62	38	520	546	511
Word Processing	19,191	50	46	54	526	536	520
Internet Activity	15,842	41	47	53	527	538	521
Using Computer Graphics	13,201	34	52	48	522	538	516
Creating Spreadsheets/Databases	11,692	30	48	52	528	541	522
None	8,458	22	39	61	511	523	507

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
15,188	39,772	14,969	619	643	621

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	1,651	11
2	6,022	40
3	4,980	33
4 or More	2,535	17

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		Mean	SD	Mean	SD	Mean	SD	
English											
Literature	5,054	620	97	4,994	640	92	620	87	637	93	
History and Social Studies											
U.S. History	5,575	650	98	5,518	643	88	643	88	640	90	
World History	745	619	104	731	650	93	647	92	646	95	
Mathematics											
Mathematics Level 1	6,511	621	87	6,412	596	99	631	84	601	100	
Mathematics Level 2	6,885	685	86	6,783	640	98	692	70	646	94	
Science											
Biology-E	2,602	636	91	2,554	631	92	650	88	633	94	
Biology-M	2,990	654	96	2,946	637	96	662	86	640	95	
Chemistry	4,229	653	100	4,172	640	99	689	76	643	98	
Physics	1,773	658	92	1,753	633	103	696	75	633	99	
Foreign and Classical Languages											
Chinese/Listening	172	738	85	172	600	143	671	96	611	136	
French	776	629	110	770	646	100	642	88	653	96	
French/Listening	186	638	104	184	641	108	634	85	637	107	
German	39	603	117	39	663	83	656	85	639	83	
German/Listening	43	615	96	39	654	80	642	76	642	72	
Modern Hebrew	31	655	128	29	642	103	667	82	659	97	
Italian	40	658	128	40	619	88	625	94	625	105	
Japanese/Listening	51	688	128	51	602	108	664	89	605	101	
Korean/Listening	47	752	98	45	566	110	686	71	608	111	
Latin	522	623	108	517	672	83	682	76	675	84	
Spanish	1,324	618	116	1,314	619	103	627	97	634	102	
Spanish/Listening	177	624	104	173	615	105	616	94	623	104	

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	413	8	1,010	18	110	15
700-740	837	17	1,160	21	81	11
650-690	993	20	994	18	123	17
600-640	942	19	859	15	108	14
550-590	722	14	660	12	130	17
500-540	556	11	439	8	93	12
450-490	344	7	293	5	72	10
400-440	170	3	119	2	22	3
350-390	58	1	32	1	6	1
300-340	17	0	9	0		
250-290	2	0				
200-240						
Total	5,054		5,575		745	
Mean	620		650		619	
SD	97		98		104	
75th percentile	690		730		700	
50th percentile	630		660		610	
25th percentile	550		580		540	

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	346	5	2,168	31	320	12	600	20	937	22	365	21
700-740	1,178	18	1,050	15	415	16	530	18	706	17	290	16
650-690	1,240	19	1,320	19	502	19	583	19	699	17	331	19
600-640	1,410	22	1,226	18	545	21	500	17	655	15	342	19
550-590	1,077	17	743	11	428	16	375	13	559	13	226	13
500-540	663	10	274	4	224	9	226	8	359	8	143	8
450-490	396	6	78	1	98	4	89	3	215	5	55	3
400-440	134	2	19	0	50	2	50	2	87	2	19	1
350-390	57	1	4	0	14	1	29	1	12	0	2	0
300-340	8	0	3	0	6	0	8	0				
250-290	2	0										
200-240												
Total	6,511		6,885		2,602		2,990		4,229		1,773	
Mean	621		685		636		654		653		658	
SD	87		86		91		96		100		92	
75th percentile	690		760		700		730		730		730	
50th percentile	630		690		640		660		660		660	
25th percentile	560		620		580		590		580		590	

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	111	65	142	18	36	19	6	15	5	12	12	39
700-740	25	15	108	14	18	10	4	10	5	12	3	10
650-690	14	8	114	15	38	20	4	10	5	12	2	6
600-640	7	4	107	14	34	18	6	15	12	28	1	3
550-590	7	4	98	13	19	10	4	10	6	14	3	10
500-540	2	1	103	13	21	11	7	18	4	9	5	16
450-490	4	2	68	9	14	8	6	15	4	9	4	13
400-440	2	1	30	4	5	3	2	5	1	2	1	3
350-390			4	1	1	1			1	2		
300-340			2	0								
250-290												
200-240												
Total	172		776		186		39		43		31	
Mean	738		629		638		603		615		655	
SD	85		110		104		117		96		128	
75th percentile	800		720		720		680		660		780	
50th percentile	780		640		640		570		620		680	
25th percentile	710		540		560		500		530		510	

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	15	38	22	43	37	79	80	15	209	16	21	12
700-740	2	5	10	20	4	9	94	18	207	16	29	16
650-690	10	25	9	18	1	2	62	12	196	15	34	19
600-640	2	5	1	2	1	2	72	14	169	13	28	16
550-590	5	13	2	4	1	2	69	13	172	13	23	13
500-540	2	5	2	4			60	11	149	11	19	11
450-490	1	3			1	2	66	13	109	8	11	6
400-440			2	4	1	2	17	3	62	5	11	6
350-390	1	3	1	2	1	2	2	0	39	3	1	1
300-340	1	3	2	4					11	1		
250-290	1	3							1	0		
200-240												
Total	40		51		47		522		1,324		177	
Mean	658		688		752		623		618		624	
SD	128		128		98		108		116		104	
75th percentile	750		770		800		720		710		710	
50th percentile	680		730		790		630		630		630	
25th percentile	570		660		760		530		530		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	336	1	485	485	472
Architecture and Related Services	699	1	505	539	500
Area, Ethnic, Cultural and Gender Studies	60	0	544	531	536
Biological and Biomedical Sciences	3,472	7	559	575	554
Business Management, Marketing, and Related Support Services	6,558	13	502	537	503
Communication, Journalism and Related Programs	1,355	3	529	512	530
Computer and Information Sciences and Support Services	1,308	3	538	563	510
Construction Trades	75	0	420	461	406
Education	2,669	5	492	497	492
Engineering	4,078	8	541	594	528
Engineering Technologies/Technicians	545	1	484	534	469
English Language and Literature/Letters	817	2	596	541	585
Family and Consumer Sciences/Human Sciences	148	0	467	470	470
Foreign Languages, Literatures, and Linguistics	338	1	593	571	585
Health Professions and Related Clinical Services	8,022	16	495	511	498
History	706	1	555	527	530
Legal Professions and Studies	1,204	2	532	532	524
Liberal Arts and Sciences, General Studies, and Humanities	662	1	561	543	554
Library Science And Administration	7	0	587	490	564
Mathematics and Statistics	468	1	546	625	547
Mechanic and Repair Technologies/Technician	109	0	415	447	395
Military Technologies And Applied Sciences	231	0	506	519	478
Multi/Interdisciplinary Studies	267	1	602	604	592
Natural Resources and Conservation	296	1	527	524	518
Parks, Recreation, Leisure and Fitness Studies	464	1	456	484	456
Personal and Culinary Services	254	0	451	462	441
Philosophy and Religious Studies	73	0	576	563	566
Physical Sciences	727	1	573	603	561
Precision Production	3	0			
Psychology	2,561	5	511	502	508
Public Administration and Social Services Professions	189	0	496	477	484
Security and Protective Services	1,954	4	460	473	453
Social Sciences	1,040	2	589	570	576
Theology and Religious Vocations	26	0	515	491	516
Transportation and Materials Moving	26	0	440	464	428
Visual and Performing Arts	3,273	6	522	510	515
Other	921	2	469	480	465
Undecided	5,524	11	552	569	549
Degree-Level Goal					
Certificate Program	390	1	450	467	440
Associate Degree	568	1	408	422	395
Bachelor's Degree	16,446	33	492	505	486
Master's Degree	14,838	30	524	540	521
Doctoral or Related Degree	7,754	15	559	573	556
Other	290	1	422	436	417
Undecided	9,915	20	529	540	521

College Plans

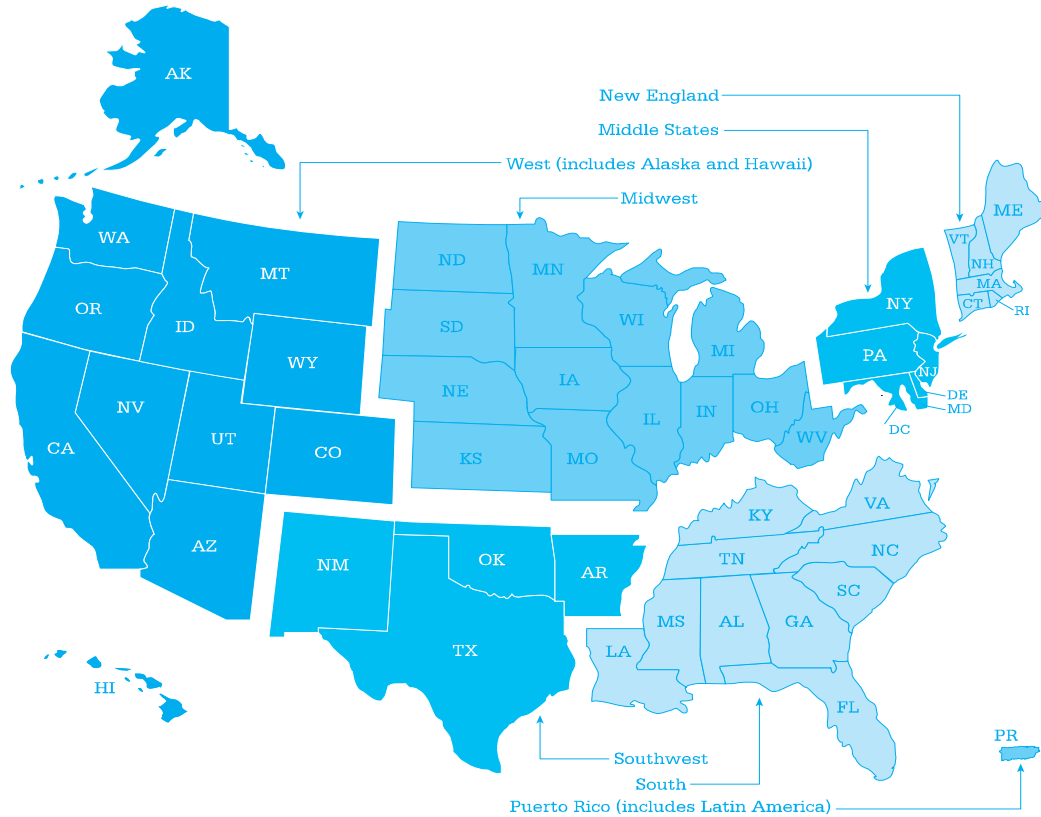
Table 27: Institutions That Received the Most SAT Program Score Reports from Your Students

Of the 61,010 students from your state who took the SAT and/or an SAT Subject Test, 48,845 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 1,926 institutions received score reports from your students.

Institution	State	Type	Number of Students	Percent of Score Senders*
UNIVERSITY OF MASSACHUSETTS AMHERST	MA	Public	18,821	38.5
NORTHEASTERN UNIVERSITY	MA	Private	9,580	19.6
UNIVERSITY OF MASSACHUSETTS DARTMOUTH	MA	Public	7,385	15.1
UNIVERSITY OF MASSACHUSETTS LOWELL	MA	Public	7,236	14.8
BOSTON UNIVERSITY	MA	Private	7,048	14.4
UNIVERSITY OF NEW HAMPSHIRE DURHAM	NH	Public	6,396	13.1
BRIDGEWATER STATE COLLEGE	MA	Public	6,031	12.3
UNIVERSITY OF MASSACHUSETTS BOSTON	MA	Public	5,570	11.4
SALEM STATE COLLEGE	MA	Public	5,392	11.0
UNIVERSITY OF RHODE ISLAND	RI	Public	4,941	10.1
FRAMINGHAM STATE UNIVERSITY	MA	Public	4,767	9.8
WESTFIELD STATE UNIVERSITY	MA	Public	4,680	9.6
UNIVERSITY OF VERMONT	VT	Public	4,521	9.3
BOSTON COLLEGE	MA	Private	3,878	7.9
SUFFOLK UNIVERSITY	MA	Private	3,867	7.9
UNIVERSITY OF CONNECTICUT	CT	Public	3,816	7.8
QUINNIPIAC UNIVERSITY	CT	Private	3,703	7.6
WORCESTER STATE COLLEGE	MA	Public	3,479	7.1
FITCHBURG STATE UNIVERSITY	MA	Public	3,408	7.0
WORCESTER POLYTECHNIC INSTITUTE	MA	Private	2,920	6.0
TUFTS UNIVERSITY	MA	Private	2,897	5.9
CURRY COLLEGE	MA	Private	2,683	5.5
ROGER WILLIAMS UNIVERSITY	RI	Private	2,569	5.3
EMMANUEL COLLEGE	MA	Private	2,556	5.2
WENTWORTH INSTITUTE OF TECHNOLOGY	MA	Private	2,473	5.1
HARVARD UNDERGRADUATE ADMISSIONS	MA	Private	2,469	5.1
MERRIMACK COLLEGE	MA	Private	2,423	5.0
BROWN UNIVERSITY	RI	Private	2,372	4.9
BENTLEY UNIVERSITY	MA	Private	2,279	4.7
STONEHILL COLLEGE	MA	Private	2,156	4.4
ENDICOTT COLLEGE	MA	Private	2,145	4.4
MASSACHUSETTS COLLEGE OF PHARMACY AND HE	MA	Private	2,140	4.4
SYRACUSE UNIVERSITY	NY	Private	2,139	4.4
PROVIDENCE COLLEGE	RI	Private	1,979	4.1
NEW YORK UNIVERSITY	NY	Private	1,935	4.0
CORNELL UNIVERSITY	NY	Private	1,915	3.9
WESTERN NEW ENGLAND UNIVERSITY	MA	Private	1,824	3.7
KEENE STATE COLLEGE	NH	Public	1,737	3.6
UNIVERSITY OF MAINE ORONO	ME	Public	1,719	3.5
NCAA ELIGIBILITY CENTER	IN	Public	1,702	3.5
PLYMOUTH STATE UNIVERSITY	NH	Public	1,698	3.5
BRANDEIS UNIVERSITY	MA	Private	1,677	3.4
FORDHAM UNIVERSITY	NY	Private	1,608	3.3
ASSUMPTION COLLEGE	MA	Private	1,541	3.2
DARTMOUTH COLLEGE	NH	Private	1,530	3.1

*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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