

# SAT<sup>®</sup>

2015 College-Bound Seniors

# State Profile Report



MASSACHUSETTS

## Included in This Report

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**SAT<sup>®</sup> Data**

**SAT Subject Tests<sup>™</sup> Data**

**Demographic and Academic Information**

**College Plans**

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**DATA EMBARGO IN EFFECT.** This report contains information on college-bound students in the class of 2015 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 after the College Board makes state and total group-level data and information publically available. The embargo will be lifted no later than September 30, 2015.*** Prior to that time, you may use the data and other information in this report for internal purposes. The College Board will post updated information in the coming weeks about the embargo at <https://collegeboard.org/press>; if you have questions about the College Board Program Results press briefing, please contact the College Board communications department at [communications@collegeboard.org](mailto: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 2015* includes students who tested through June 2015.

## Using This Report

*College-Bound Seniors* presents data on high school graduates in the year 2015 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](http://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 a 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](http://www.collegeboard.org).

# Total Group Mean SAT Scores

## College-Bound Seniors, 1972–2015

<b>Year</b>	<b>Critical Reading</b>			<b>Mathematics</b>			<b>Writing</b>		
	<b>Male</b>	<b>Female</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>
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
2014	499	495	497	530	499	513	481	492	487
2015	497	493	495	527	496	511	478	490	484

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 2000–2015, 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](http://www.collegeboard.org/cbs).

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## SAT<sup>®</sup> Data

Data in this report are for high school graduates in the year 2015. Information is summarized for seniors who took the SAT at any time during their high school years through June 2015. 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	61,277	516	115	529	117	507	117	50.5	11.8	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	29,068	521	117	547	120	503	119	50.3	11.8	7.2	1.7
Female	32,209	512	113	514	113	511	116	50.7	11.7	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 (2014-2015)	43,667	503	110	517	112	494	112	49.1	11.2	7.3	1.6
Junior (2013-2014)	17,514	548	121	560	123	540	124	53.8	12.5	7.6	1.6
Sophomore (2012-2013)	86	631	120	636	119	621	124	62.1	12.5	8.2	1.6
Freshman (2011-2012)	10	549		608		533		54.2		7.3	
Total	61,277	516	115	529	117	507	117	50.5	11.8	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	1,698,521	495	116	511	120	484	115	48.7	11.6	7.0	1.7

\*Writing data are based on students who took the current version of the SAT, first administered in March 2005. All students in the 2015 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	590	560
50th	520	530	500	490	510	480
25th	440	450	420	410	430	400

Table 6: Score Distributions

SAT Score Range	Critical Reading			Mathematics			Writing		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
700–800	1,962	1,735	3,697	3,232	1,762	4,994	1,729	1,986	3,715
600-690	5,772	5,682	11,454	7,171	6,136	13,307	4,886	5,995	10,881
500-590	9,130	10,336	19,466	8,901	10,100	19,001	8,158	9,386	17,544
400-490	8,052	9,629	17,681	6,802	9,488	16,290	8,943	9,749	18,692
300-390	3,343	3,981	7,324	2,409	4,001	6,410	4,365	4,277	8,642
200-290	809	846	1,655	553	722	1,275	987	816	1,803

Table 7: Type of High School

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Public	50,808	84	46	54	507	521	497
Religiously Affiliated	5,384	9	56	44	540	549	539
Independent	4,339	7	51	49	592	613	593
Other or Unknown	746		45	55	496	497	484

Note: Percentiles are reported when there are 20 or more test-takers.  
The College Board is no longer collecting data regarding Disabling Conditions.

## Demographic Information

SAT: Mean Scores by Gender Within Ethnicity

Table 8: 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	190	0	480	102	489	107	470	99
Asian, Asian American, or Pacific Islander	5,123	8	530	135	604	127	535	140
Black or African American	4,987	8	436	106	442	104	427	102
Mexican or Mexican American	284	0	501	122	517	121	493	121
Puerto Rican	1,833	3	419	103	427	101	407	98
Other Hispanic, Latino, or Latin American	3,841	6	447	111	457	112	434	112
White	41,642	68	537	103	544	105	527	106
Other	1,875	3	507	134	516	132	498	132
No Response	1,502	2	478	123	487	128	462	127
Total	61,277	100	516	115	529	117	507	117

Table 9: 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	92	0	491	110	519	115	473	109
Asian, Asian American, or Pacific Islander	2,484	4	531	137	619	127	530	142
Black or African American	2,359	4	433	106	450	107	417	103
Mexican or Mexican American	138	0	506	130	534	122	487	126
Puerto Rican	804	1	424	107	441	108	403	101
Other Hispanic, Latino, or Latin American	1,712	3	452	116	476	116	430	115
White	19,872	32	541	105	561	106	522	107
Other	804	1	512	139	543	135	499	133
No Response	803	1	485	123	504	132	461	125
Total	29,068	47	521	117	547	120	503	119

Table 10: 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	98	0	469	92	462	91	467	88
Asian, Asian American, or Pacific Islander	2,639	4	529	133	589	125	539	137
Black or African American	2,628	4	438	106	435	100	436	100
Mexican or Mexican American	146	0	496	113	500	118	499	115
Puerto Rican	1,029	2	415	99	416	93	409	95
Other Hispanic, Latino, or Latin American	2,129	3	442	108	441	106	437	110
White	21,770	36	533	101	528	101	532	105
Other	1,071	2	503	129	496	126	497	132
No Response	699	1	470	123	468	121	463	128
Total	32,209	53	512	113	514	113	511	116

## Demographic Information

### SAT: Student Background Information and Characteristics

**Table 11: 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	61,277	100	516	115	529	117	507	117
<b>First Language Learned</b>								
English	46,745	78	528	107	535	109	518	109
English and Another	7,665	13	487	127	508	135	482	131
Another Language	5,766	10	460	131	514	147	461	138
No Response	1,101		490	133	506	137	477	137
<b>Citizenship</b>								
U.S. Citizen / U.S. National	55,331	95	523	111	532	113	513	113
U.S. Permanent Resident or Refugee	1,904	3	449	134	497	144	452	138
Citizen of Another Country	1,120	2	494	124	595	132	508	135
Other, Unknown, or No Response	2,922		437	129	474	147	428	134
<b>Plans to Apply for Financial Aid</b>								
Yes	39,418	77	514	106	524	108	504	107
No	3,332	7	572	111	594	113	573	116
Don't Know	8,288	16	541	117	558	119	535	120
No Response	10,239		484	135	505	137	475	137
<b>Family Income</b>								
\$0 - \$20,000	3,152	9	432	105	452	110	422	102
\$20,000–\$40,000	3,791	11	471	106	486	107	461	106
\$40,000–\$60,000	3,802	11	495	99	507	104	482	100
\$60,000–\$80,000	4,317	12	511	97	519	99	499	98
\$80,000–\$100,000	4,454	12	525	98	533	101	513	101
\$100,000–\$120,000	4,512	13	534	100	544	102	522	102
\$120,000–\$140,000	2,613	7	537	98	549	101	527	101
\$140,000–\$160,000	2,221	6	545	100	556	101	535	102
\$160,000–\$200,000	2,707	8	553	97	567	100	545	102
More than \$200,000	4,097	11	585	101	599	102	584	105
No Response	25,611		513	124	528	127	506	126
<b>Highest Level of Parental Education</b>								
No High School Diploma	2,460	4	416	104	448	117	409	104
High School Diploma	13,995	25	466	99	479	103	455	98
Associate Degree	4,674	8	486	94	498	97	474	94
Bachelor's Degree	19,263	34	532	99	546	103	524	103
Graduate Degree	16,506	29	583	107	591	110	576	111
No Response	4,379		441	118	463	124	432	119
<b>Took the PSAT/NMSQT®</b>								
Yes, As a Junior	18,164	33	520	110	532	112	511	111
Yes, As a Sophomore or Younger	10,054	19	517	107	528	110	507	109
Yes, As a Junior and As a Sophomore or Younger	18,689	34	551	105	564	106	546	107
No	7,342	14	475	112	486	119	459	114
No Response	7,028		453	128	477	134	445	130

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 12: High School Rank

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Highest Tenth	5,906	30	42	58	604	629	603
Second Tenth	5,253	27	46	54	540	561	534
Second Fifth	3,884	20	50	50	508	524	496
Final Three Fifths	4,734	24	52	48	457	465	443
No Response	41,500		48	52	508	519	499

Table 13: High School Grade Point Average

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
A+ (97–100)	1,520	3	41	59	615	635	616
A (93–96)	8,036	14	39	61	592	612	592
A- (90–92)	11,774	21	41	59	563	581	559
B (80–89)	28,688	51	49	51	495	506	484
C (70–79)	6,059	11	61	39	425	432	408
D, E, or F (below 70)	258	0	61	39	399	404	371
No Response	4,942		52	48	494	502	479
<b>Mean Grade Point Average</b>	<b>All Students: 3.26</b>		<b>Male: 3.17</b>		<b>Female: 3.34</b>		

Table 14: 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	3.64	3.82	3.74
English and Language Arts	3.9	3.9	3.9	3.22	3.45	3.34
Foreign and Classical Languages	3.0	3.2	3.1	3.17	3.43	3.31
Mathematics	3.9	3.9	3.9	3.19	3.23	3.21
Natural Sciences	3.7	3.7	3.7	3.23	3.30	3.27
Social Sciences and History	3.7	3.7	3.7	3.34	3.41	3.38
<b>Total for All Subjects</b>	<b>20.2</b>	<b>20.8</b>	<b>20.5</b>			

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 15: 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	5,359	11	44	56	537	553	534
4 Years	35,379	75	47	53	531	542	522
3 Years	4,607	10	46	54	480	494	470
2 Years	702	1	49	51	479	505	471
1 Year	407	1	41	59	480	496	469
1/2 Year or Less	487	1	54	46	453	477	436
No Response	14,336		50	50	488	505	478
AP®/Honors Courses	21,524	46	39	61	570	576	564
<b>Course Work or Experience</b>							
English/Language Arts	41,196	96	46	54	526	536	517
Journalism	3,851	9	40	60	524	523	518
Creative Writing	10,994	26	40	60	523	524	515
American Literature	25,916	60	45	55	537	546	529
Composition/Writing	19,727	46	44	56	525	534	518
British Literature	9,784	23	44	56	550	554	542
World Literature	12,631	29	46	54	539	546	530
Communications	2,452	6	48	52	501	515	497
Public Speaking	6,338	15	46	54	534	541	527
English As Second Language	1,965	5	44	56	444	507	451

Mathematics Years of Study	Test-Takers		Percent by Gender		SAT Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	7,208	15	48	52	542	573	538
4 Years	33,032	70	46	54	530	538	520
3 Years	5,326	11	45	55	485	490	474
2 Years	654	1	54	46	485	514	478
1 Year	331	1	49	51	481	504	468
1/2 Year or Less	527	1	50	50	446	455	429
No Response	14,199		50	50	488	505	479
AP/Honors Courses	19,513	41	47	53	573	604	569
<b>Highest Level of Mathematics Achieved*</b>							
Calculus	17,082	38	50	50	581	615	577
Pre-calculus	14,150	32	42	58	517	522	507
Geometry	11,983	27	45	55	461	451	447
Algebra II	484	1	48	52	435	436	425
Algebra I	122	0	52	48	435	424	421

\*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 16: Natural Sciences, Social Sciences and History

<b>Natural Sciences</b>		<b>Test-Takers</b>		<b>Percent by Gender</b>		<b>SAT Mean Scores</b>		
<b>Years of Study</b>	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing	
More Than 4 Years	5,612	12	46	54	551	575	547	
4 Years	26,468	57	47	53	538	549	530	
3 Years	10,162	22	45	55	499	505	489	
2 Years	1,837	4	55	45	489	504	474	
1 Year	918	2	48	52	485	503	470	
1/2 Year or Less	1,088	2	45	55	444	457	431	
No Response	15,192		50	50	487	504	478	
AP/Honors Courses	19,476	42	45	55	578	599	572	
<b>Course Work or Experience</b>								
Biology	42,393	97	46	54	526	537	517	
Chemistry	40,640	93	46	54	530	542	522	
Physics	31,523	72	49	51	539	557	531	
Geology, Earth, or Space Science	15,685	36	47	53	517	523	507	
Other Sciences	18,860	43	40	60	518	526	510	

  

<b>Social Sciences and History</b>		<b>Test-Takers</b>		<b>Percent by Gender</b>		<b>SAT Mean Scores</b>		
<b>Years of Study</b>	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing	
More Than 4 Years	4,838	10	46	54	543	555	538	
4 Years	26,449	57	47	53	537	544	528	
3 Years	12,731	27	45	55	505	524	496	
2 Years	1,455	3	49	51	494	516	484	
1 Year	550	1	47	53	480	498	469	
1/2 Year or Less	577	1	51	49	439	465	422	
No Response	14,677		50	50	487	504	478	
AP/Honors Courses	21,427	46	45	55	573	582	565	
<b>Course Work or Experience</b>								
U.S. History	41,746	96	46	54	526	537	517	
World History or Cultures	34,608	80	45	55	530	541	522	
U.S. Government or Civics	12,557	29	49	51	524	531	513	
Economics	7,148	16	59	41	546	567	540	
Geography	3,607	8	51	49	500	518	496	
Psychology	17,299	40	35	65	529	534	522	
European History	11,300	26	49	51	554	559	545	
Sociology	6,931	16	36	64	509	512	500	
Ancient History	6,001	14	50	50	546	553	537	
Other Courses	8,100	19	45	55	527	532	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 17: 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	4,045	9	43	57	565	580	565
4 Years	15,443	33	43	57	567	576	564
3 Years	14,341	31	48	52	522	534	511
2 Years	8,760	19	51	49	479	489	463
1 Year	1,154	2	48	52	458	475	441
1/2 Year or Less	2,589	6	51	49	434	458	419
No Response	14,945		51	49	486	503	476
AP/Honors Courses	14,809	32	40	60	582	595	580
<b>Course Work or Experience</b>							
Chinese	1,736	4	52	48	556	592	551
French	8,230	19	39	61	551	556	542
German	785	2	58	42	561	572	546
Greek	308	1	54	46	574	578	562
Hebrew	138	0	46	54	573	574	569
Italian	1,412	3	43	57	511	522	502
Japanese	190	0	55	45	556	578	542
Korean	61	0	48	52	501	537	505
Latin	5,230	12	47	53	570	576	559
Russian	175	0	55	45	547	559	537
Spanish	27,848	64	46	54	521	532	514
Other Languages	1,620	4	43	57	493	507	486

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: Arts and Music, Computers

<b>Arts and Music*</b>	<b>Test-Takers</b>		<b>Percent by Gender</b>		<b>SAT Mean Scores</b>			
	<b>Years of Study</b>	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	2,805	6	38	62	550	558	546	
4 Years	9,388	22	38	62	553	556	546	
3 Years	5,911	14	41	59	526	533	520	
2 Years	8,922	21	48	52	528	542	520	
1 Year	6,805	16	51	49	523	541	515	
1/2 Year or Less	9,415	22	53	47	497	515	485	
No Response	18,031		51	49	490	507	480	
AP/Honors Courses	4,644	11	37	63	585	590	580	
<b>Course Work or Experience</b>								
Acting or Play Production	7,482	18	34	66	562	552	552	
Art History or Appreciation	5,856	14	41	59	525	529	518	
Dance	4,451	11	11	89	524	527	526	
Drama: Study or Appreciation	5,953	14	32	68	541	536	534	
Music: Study or Appreciation	6,309	15	53	47	552	553	543	
Music Performance	14,425	35	43	57	554	561	547	
Photography or Film	10,495	26	39	61	532	539	525	
Studio Art and Design	13,597	33	37	63	540	547	533	
None	8,545	21	58	42	494	514	481	

<b>Computers†</b>	<b>Test-Takers</b>		<b>Percent by Gender</b>		<b>SAT Mean Scores</b>		
	<b>Course Work or Experience</b>	Number	Pct	Male	Female	Critical Reading	Mathematics
Computer Literacy	3,172	51	49	51	603	626	602
Computer Programming	1,445	23	67	33	614	655	612
Word Processing	2,948	47	48	52	605	627	603
Internet Activity	2,678	43	49	51	606	630	605
Using Computer Graphics	2,091	34	53	47	600	628	596
Creating Spreadsheets/Databases	1,865	30	50	50	605	631	604
None	1,424	23	41	59	595	614	599

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.

\*Information about Arts & Music is incomplete for the 2015 cohort as data was not collected through the online registration process between January and June 2015. The full collection of this data has resumed.

†Information about Computer Experience represents a small sample of the 2015 cohort as this information is no longer collected through the online registration process as of November 2013.

SAT Subject Tests™ Data

Table 19: 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
13,841	36,064	13,437	626	650	627

  

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	1,839	13
2	5,144	37
3	4,478	32
4 or More	2,380	17

Table 20: 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
<b>English</b>										
Literature	4,296	625	95	4,195	646	91	630	87	642	91
<b>History and Social Studies</b>										
U.S. History	4,783	646	96	4,656	647	86	649	87	643	90
World History	736	613	104	719	660	88	655	89	649	90
<b>Mathematics</b>										
Mathematics Level 1	5,452	622	90	5,307	605	95	637	84	609	97
Mathematics Level 2	6,681	688	87	6,476	646	93	696	70	651	89
<b>Science</b>										
Biology-E	2,467	641	89	2,384	634	89	653	89	634	93
Biology-M	2,912	651	90	2,838	638	91	662	85	641	92
Chemistry	4,021	653	97	3,903	647	92	692	77	649	91
Physics	1,834	657	94	1,789	641	98	703	74	642	93
<b>Foreign and Classical Languages</b>										
Chinese/Listening	140	746	81	133	592	130	680	96	612	133
French	643	624	110	624	650	86	644	88	653	86
French/Listening	134	651	100	132	639	89	639	87	645	92
German	42	617	138	42	638	84	653	73	651	82
German/Listening	36	634	129	34	641	125	639	93	636	122
Modern Hebrew	19	641		15	657		667		659	
Italian	26	697	84	24	633		625		641	
Japanese/Listening	50	685	123	50	583	100	676	86	601	90
Korean/Listening	23	770		23	548		684		599	
Latin	502	619	114	491	677	84	679	80	677	86
Spanish	1,113	623	109	1,079	633	102	635	92	643	101
Spanish/Listening	154	640	110	151	632	95	631	85	637	97

SAT Subject Tests Score Distributions

Table 21: 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	392	9	747	16	92	13
700-740	711	17	960	20	84	11
650-690	888	21	970	20	131	18
600-640	792	18	752	16	117	16
550-590	659	15	586	12	102	14
500-540	416	10	388	8	95	13
450-490	266	6	229	5	67	9
400-440	110	3	98	2	43	6
350-390	49	1	40	1	4	1
300-340	13	0	13	0	1	0
250-290						
200-240						
Total	4,296		4,783		736	
Mean	625		646		613	
SD	95		96		104	
75th percentile	700		720		690	
50th percentile	640		660		620	
25th percentile	560		580		530	

Table 22: 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	343	6	2,227	33	310	13	437	15	865	22	394	21
700-740	968	18	1,067	16	447	18	567	19	681	17	299	16
650-690	1,058	19	1,148	17	491	20	656	23	662	16	325	18
600-640	1,047	19	1,084	16	465	19	520	18	657	16	318	17
550-590	855	16	802	12	393	16	385	13	523	13	258	14
500-540	664	12	246	4	222	9	188	6	380	9	145	8
450-490	352	6	84	1	90	4	96	3	171	4	79	4
400-440	117	2	17	0	34	1	33	1	70	2	13	1
350-390	38	1	4	0	10	0	22	1	12	0	3	0
300-340	9	0	2	0	5	0	7	0				
250-290	1	0					1	0				
200-240												
Total	5,452		6,681		2,467		2,912		4,021		1,834	
Mean	622		688		641		651		653		657	
SD	90		87		89		90		97		94	
75th percentile	690		770		700		720		740		730	
50th percentile	630		690		650		660		660		660	
25th percentile	560		620		580		590		580		590	

**SAT Subject Tests Score Distributions**

Table 23: 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	100	71	101	16	30	22	8	19	9	25	9	47
700-740	13	9	92	14	18	13	9	21	5	14	2	11
650-690	9	6	98	15	20	15	6	14	4	11		
600-640	7	5	92	14	23	17	3	7	6	17		
550-590	5	4	85	13	19	14	3	7	3	8	3	16
500-540	4	3	79	12	17	13	3	7	4	11		
450-490	1	1	61	9	4	3	4	10	1	3		
400-440			28	4	2	1	2	5	2	6	3	16
350-390	1	1	6	1	1	1	2	5	1	3	1	5
300-340			1	0			1	2			1	5
250-290							1	2	1	3		
200-240												
Total	140		643		134		42		36		19	
Mean	746		624		651		617		634		641	
SD	81		110		100		138		129			
75th percentile	800		710		730		720		730			
50th percentile	780		630		650		650		630			
25th percentile	740		540		570		490		530			

Table 24: 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	9	35	25	50	19	83	94	19	168	15	41	27
700-740	4	15	7	14	2	9	65	13	173	16	15	10
650-690	8	31	2	4	1	4	56	11	171	15	17	11
600-640	3	12	3	6			68	14	184	17	25	16
550-590	1	4	6	12	1	4	70	14	130	12	19	12
500-540			3	6			75	15	117	11	20	13
450-490			2	4			42	8	98	9	13	8
400-440							26	5	46	4	2	1
350-390	1	4	1	2			6	1	23	2	2	1
300-340									2	0		
250-290			1	2					1	0		
200-240												
Total	26		50		23		502		1,113		154	
Mean	697		685		770		619		623		640	
SD	84		123				114		109		110	
75th percentile	750		780		800		720		710		750	
50th percentile	690		730		790		610		630		640	
25th percentile	650		580		750		530		540		550	



## College Plans

Table 25: 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	400	1	487	489	478
Architecture and Related Services	649	1	502	540	497
Area, Ethnic, Cultural and Gender Studies	66	0	555	537	543
Biological and Biomedical Sciences	3,636	7	558	569	549
Business Management, Marketing, and Related Support Services	7,209	13	510	539	504
Communication, Journalism and Related Programs	1,384	3	534	516	530
Computer and Information Sciences and Support Services	1,665	3	548	582	522
Construction Trades	51	0	415	455	392
Education	2,753	5	495	494	490
Engineering	4,677	9	540	587	525
Engineering Technologies/Technicians	671	1	485	533	470
English Language and Literature/Letters	761	1	582	534	570
Family and Consumer Sciences/Human Sciences	113	0	466	482	466
Foreign Languages, Literatures, and Linguistics	312	1	596	572	583
Health Professions and Related Clinical Services	8,306	16	496	508	495
History	626	1	560	524	530
Legal Professions and Studies	1,051	2	527	524	517
Liberal Arts and Sciences, General Studies, and Humanities	555	1	571	558	567
Library Science And Administration	8	0	598	538	548
Mathematics and Statistics	521	1	558	633	560
Mechanic and Repair Technologies/Technician	98	0	426	450	409
Military Technologies And Applied Sciences	233	0	494	514	475
Multi/Interdisciplinary Studies	377	1	599	604	590
Natural Resources and Conservation	314	1	545	540	525
Parks, Recreation, Leisure and Fitness Studies	440	1	448	475	445
Personal and Culinary Services	213	0	453	459	435
Philosophy and Religious Studies	80	0	558	541	561
Physical Sciences	752	1	575	603	558
Precision Production	5	0	438	522	424
Psychology	2,450	5	511	500	504
Public Administration and Social Services Professions	168	0	486	474	485
Security and Protective Services	2,202	4	464	472	453
Social Sciences	963	2	582	566	568
Theology and Religious Vocations	29	0	545	538	524
Transportation and Materials Moving	24	0	493	499	483
Visual and Performing Arts	3,278	6	522	511	511
Other	845	2	468	473	455
Undecided	5,668	11	551	565	544
<b>Degree-Level Goal</b>					
Certificate Program	397	1	439	455	421
Associate Degree	511	1	409	421	393
Bachelor's Degree	17,478	34	498	508	488
Master's Degree	16,193	31	530	544	523
Doctoral or Related Degree	8,197	16	562	574	557
Other	260	0	417	444	417
Undecided	9,031	17	532	543	522

## College Plans

Table 26: Institutions That Received the Most SAT Program Score Reports from Your Students

Of the 61,681 students from your state who took the SAT and/or an SAT Subject Test, 49,207 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 1,919 institutions received score reports from your students.

Institution	State	Type	Number of Students	Percent of Score Senders*
University of Massachusetts Amherst	MA	Public	19,314	39.3
University of Massachusetts Lowell	MA	Public	8,799	17.9
Northeastern University	MA	Private	8,578	17.4
Boston University	MA	Private	6,781	13.8
University of New Hampshire	NH	Public	6,619	13.5
University of Massachusetts Dartmouth	MA	Public	6,493	13.2
Bridgewater State University	MA	Public	5,989	12.2
University of Massachusetts Boston	MA	Public	5,838	11.9
Salem State University	MA	Public	5,645	11.5
University of Rhode Island	RI	Public	4,911	10.0
Westfield State University	MA	Public	4,776	9.7
University of Vermont	VT	Public	4,728	9.6
Framingham State University	MA	Public	4,381	8.9
University of Connecticut	CT	Public	4,379	8.9
Boston College	MA	Private	4,226	8.6
Fitchburg State University	MA	Public	3,805	7.7
Quinnipiac University	CT	Private	3,758	7.6
Suffolk University	MA	Private	3,509	7.1
Worcester State University	MA	Public	3,482	7.1
Worcester Polytechnic Institute	MA	Private	3,127	6.4
Merrimack College	MA	Private	2,852	5.8
Wentworth Institute of Technology	MA	Private	2,783	5.7
Tufts University	MA	Private	2,769	5.6
Curry College	MA	Private	2,720	5.5
Harvard College	MA	Private	2,488	5.1
Bentley University	MA	Private	2,425	4.9
Roger Williams University	RI	Private	2,424	4.9
Syracuse University	NY	Private	2,387	4.9
Brown University	RI	Private	2,276	4.6
University of Maine	ME	Public	2,273	4.6
Providence College	RI	Private	2,131	4.3
New York University	NY	Private	2,065	4.2
Cornell University	NY	Private	2,003	4.1
Western New England University	MA	Private	1,972	4.0
MCPHS University	MA	Private	1,962	4.0
Stonehill College	MA	Private	1,936	3.9
Endicott College	MA	Private	1,918	3.9
NCAA Eligibility Center	IN	Public	1,857	3.8
Fordham University	NY	Private	1,823	3.7
Emmanuel College	MA	Private	1,777	3.6
Bryant University	RI	Private	1,760	3.6
Keene State College	NH	Public	1,693	3.4
Assumption College	MA	Private	1,589	3.2
Brandeis University	MA	Private	1,535	3.1
Simmons College	MA	Private	1,513	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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