

SAT[®]

2016 College-Bound Seniors

State Profile Report



MASSACHUSETTS

Included in This Report

SAT[®] Data

SAT Subject Tests[™] Data

Demographic and Academic Information

College Plans

DATA EMBARGO IN EFFECT. This report contains information on college-bound students in the class of 2016 who took the pre-March 2016 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, 2016.*** 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, please contact the College Board communications department at communications@collegeboard.org.

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The SAT® Program

The SAT® 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 2016* includes students who tested through January 2016. The College Board administered the first redesigned SAT in March 2016. While a majority of the Class of 2016 took only the pre-March 2016 SAT, a small percentage took the new SAT. The report includes senior test-takers in this class who took the SAT prior to March 2016. To help schools with the transition to the new SAT, we have included an addendum on results from the March - June 2016 administrations.

Using This Report

College-Bound Seniors presents data on high school graduates in the year 2016 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 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.

Total Group Mean SAT Scores

College-Bound Seniors, 1972–2016

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
2014	499	495	497	530	499	513	481	492	487
2015	497	493	495	527	496	511	478	490	484
2016	495	493	494	524	494	508	475	487	482

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 2000–2016, 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 2015 include students testing through June. Cohort data presented for 2016 includes test-takers through January 2016. 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 2016. Information is summarized for seniors who took the SAT at any time during their high school years through January 2016. If a student took the pre-March 2016 SAT more than once, the most recent score is used. A small percentage of seniors take their first SAT between March and June of their senior years.

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	60,300	517	116	530	117	506	117	50.4	11.7	7.3	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	28,418	520	118	546	120	501	118	50.1	11.8	7.2	1.7
Female	31,882	514	114	515	112	511	115	50.7	11.6	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 pre-March 2016 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 (2015-2016)	42,471	503	110	517	111	493	110	49.1	11.1	7.2	1.6
Junior (2014-2015)	17,719	549	124	562	124	537	125	53.6	12.6	7.5	1.6
Sophomore (2013-2014)	96	598	124	640	122	605	128	60.3	13.2	8.2	1.4
Freshman (2012-2013)	14	541		605		525		53.4		6.9	
Total	60,300	517	116	530	117	506	117	50.4	11.7	7.3	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	1,637,589	494	117	508	121	482	115	48.4	11.7	6.9	1.7

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	600	610	590	570	590	560
50th	520	530	500	490	500	480
25th	440	450	430	410	420	400

Table 6: Score Distributions

SAT Score Range	Critical Reading			Mathematics			Writing		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
700–800	2,110	2,013	4,123	3,225	1,800	5,025	1,612	1,901	3,513
600-690	5,555	5,732	11,287	6,813	5,942	12,755	4,651	5,658	10,309
500-590	8,795	9,880	18,675	8,790	10,138	18,928	8,090	9,799	17,889
400-490	7,894	9,611	17,505	6,577	9,611	16,188	8,733	9,493	18,226
300-390	3,190	3,785	6,975	2,405	3,643	6,048	4,286	4,235	8,521
200-290	874	861	1,735	608	748	1,356	1,046	796	1,842

Table 7: Type of High School

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Public	50,647	85	46	54	509	522	496
Religiously Affiliated	5,218	9	57	43	538	550	535
Independent	4,069	7	50	50	592	607	591
Other or Unknown	366		45	55	539	533	523

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	136	0	481	101	486	99	455	98
Asian or Asian American	4,840	8	538	139	609	127	541	141
Black or African American	4,645	8	433	108	442	105	424	102
Native Hawaiian or Pacific Islander	14	0	419		440		404	
Hispanic, Latino, or Latin American	6,746	11	444	113	455	110	431	110
White	40,070	66	537	103	545	104	525	105
Two or More Races, non-Hispanic	856	1	530	112	526	116	509	115
Other	481	1	515	148	526	144	513	144
No Response	2,512	4	508	129	512	127	493	131
Total	60,300	100	517	116	530	117	506	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	70	0	464	104	486	112	436	104
Asian or Asian American	2,432	4	539	142	625	125	536	144
Black or African American	2,146	4	428	108	446	111	413	102
Native Hawaiian or Pacific Islander	6	0	422		452		427	
Hispanic, Latino, or Latin American	3,008	5	449	116	471	115	428	112
White	18,942	31	540	105	561	107	519	107
Two or More Races, non-Hispanic	352	1	539	105	552	115	508	113
Other	207	0	534	142	552	137	524	136
No Response	1,255	2	512	132	526	129	489	132
Total	28,418	47	520	118	546	120	501	118

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	66	0	498	95	487	84	476	88
Asian or Asian American	2,408	4	537	136	593	127	546	138
Black or African American	2,499	4	438	107	439	100	435	100
Native Hawaiian or Pacific Islander	8	0	418		431		386	
Hispanic, Latino, or Latin American	3,738	6	440	111	443	103	434	108
White	21,128	35	534	101	530	99	531	103
Two or More Races, non-Hispanic	504	1	523	116	508	113	509	116
Other	274	0	500	151	507	146	505	149
No Response	1,257	2	503	126	497	123	498	130
Total	31,882	53	514	114	515	112	511	115

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	60,300	100	517	116	530	117	506	117
First Language Learned								
English	46,118	78	529	107	536	108	517	108
English and Another	8,162	14	487	129	508	133	480	130
Another Language	5,197	9	458	136	514	148	460	140
No Response	823		489	142	497	138	475	140
Citizenship								
U.S. Citizen / U.S. National	56,075	95	522	112	531	113	510	113
U.S. Permanent Resident or Refugee	1,852	3	440	138	487	144	440	138
Citizen of Another Country	1,234	2	493	132	601	137	508	138
Other, Unknown, or No Response	1,139		431	144	468	155	425	145
Plans to Apply for Financial Aid								
Yes	38,931	79	516	107	526	108	504	107
No	3,269	7	575	113	596	114	573	114
Don't Know	7,219	15	548	117	566	119	540	120
No Response	10,881		482	133	501	133	472	133
Family Income								
Less than \$20,000	2,931	8	440	108	457	107	427	103
About \$20,000 to \$40,000	3,784	11	469	105	484	105	455	101
About \$40,001 to \$60,000	3,676	11	495	100	505	100	480	99
About \$60,001 to \$80,000	3,878	11	512	97	517	99	496	96
About \$80,001 to \$100,000	4,762	14	523	99	533	101	510	100
About \$100,001 to \$140,000	6,562	19	535	99	546	103	523	101
About \$140,001 to \$200,000	4,578	13	549	102	563	103	541	103
More than \$200,000	4,524	13	583	102	601	104	581	104
No Response	25,605		513	125	528	125	504	125
Highest Level of Parental Education								
No High School Diploma	2,465	4	416	106	444	110	408	100
High School Diploma	13,677	24	469	99	483	102	455	98
Associate Degree	4,601	8	487	92	497	94	474	91
Bachelor's Degree	18,658	33	532	101	544	103	522	101
Graduate Degree	16,572	30	581	108	591	110	573	109
No Response	4,327		445	131	467	132	435	131
Took the PSAT/NMSQT®								
Yes, As a Junior	16,485	33	529	112	542	112	519	112
Yes, As a Sophomore or Younger	9,178	18	520	109	534	110	510	109
Yes, As a Junior and As a Sophomore or Younger	19,116	39	550	106	564	105	544	106
No	4,859	10	492	114	505	118	475	113
No Response	10,662		447	114	458	115	430	111

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

Academic Information

Academic Record

Table 12: High School Rank

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Highest Tenth	6,110	31	42	58	608	630	604
Second Tenth	5,323	27	46	54	538	561	531
Second Fifth	3,887	20	51	49	507	523	495
Final Three Fifths	4,558	23	51	49	456	466	443
No Response	40,422		47	53	508	519	497

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)	1,784	3	38	62	615	628	608
A (93–96)	7,954	14	37	63	592	611	590
A- (90–92)	11,629	21	41	59	562	581	557
B (80–89)	28,010	50	49	51	494	506	481
C (70–79)	5,854	11	61	39	429	435	410
D, E, or F (below 70)	256	0	62	38	394	396	371
No Response	4,813		51	49	495	500	478
Mean Grade Point Average	All Students: 3.27		Male: 3.17		Female: 3.35		

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	3.72	3.86	3.81
English and Language Arts	3.8	3.9	3.9	3.21	3.46	3.35
Foreign and Classical Languages	3.1	3.3	3.2	3.22	3.47	3.36
Mathematics	3.9	3.9	3.9	3.18	3.24	3.21
Natural Sciences	3.7	3.7	3.7	3.25	3.32	3.29
Social Sciences and History	3.7	3.7	3.7	3.36	3.44	3.40
Total for All Subjects	20.2	20.9	20.6			

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

Academic Information

Course-Taking Patterns

Table 15: English, Mathematics

English and Language Arts	Test-Takers		Percent by Gender		SAT Mean Scores		
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics
More Than 4 Years	6,271	14	42	58	540	553	534
4 Years	32,958	72	46	54	539	549	527
3 Years	3,694	8	46	54	477	491	465
2 Years	732	2	45	55	484	512	475
1 Year	549	1	41	59	471	488	461
1/2 Year or Less	1,449	3	51	49	430	454	419
No Response	14,647		52	48	480	497	470
AP [®] /Honors Courses	22,410	49	39	61	571	577	562
Course Work or Experience							
English/Language Arts	44,876	97	45	55	524	535	513
Journalism	3,470	8	39	61	525	523	518
Creative Writing	10,505	23	39	61	531	529	522
American Literature	25,516	55	46	54	538	548	528
Composition/Writing	18,868	41	44	56	533	540	523
British Literature	8,836	19	46	54	549	555	538
World Literature	11,199	24	47	53	539	549	529
Communications	2,018	4	47	53	515	529	508
Public Speaking	5,801	13	46	54	542	550	533
English As Second Language	1,867	4	45	55	437	506	444
Mathematics							
Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	8,494	17	46	54	545	571	537
4 Years	32,570	67	46	54	535	544	524
3 Years	4,210	9	46	54	482	487	468
2 Years	713	1	47	53	474	509	468
1 Year	608	1	48	52	460	494	452
1/2 Year or Less	2,018	4	46	54	430	439	419
No Response	11,687		50	50	479	496	469
AP/Honors Courses	22,456	46	46	54	570	598	562
Highest Level of Mathematics Achieved*							
Calculus	18,273	38	49	51	583	616	576
Pre-calculus	15,892	33	43	57	515	521	503
Geometry	12,845	27	45	55	460	450	443
Algebra II	733	2	47	53	433	424	414
Algebra I	196	0	42	58	427	415	416

*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

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	6,391	14	43	57	547	568	540	
4 Years	26,312	59	47	53	543	554	532	
3 Years	8,797	20	44	56	502	505	489	
2 Years	1,236	3	53	47	488	513	475	
1 Year	644	1	45	55	484	504	469	
1/2 Year or Less	1,495	3	46	54	438	454	427	
No Response	15,425		51	49	481	497	470	
AP/Honors Courses	20,247	45	44	56	576	595	567	
Course Work or Experience								
Biology	46,213	98	45	55	525	536	514	
Chemistry	44,262	94	45	55	528	541	518	
Physics	33,978	72	49	51	538	556	528	
Geology, Earth, or Space Science	15,644	33	46	54	519	525	506	
Other Sciences	20,157	43	40	60	519	525	508	

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	5,283	12	43	57	545	555	537	
4 Years	25,022	56	47	53	544	552	533	
3 Years	10,830	24	43	57	510	526	498	
2 Years	1,330	3	50	50	494	523	484	
1 Year	619	1	45	55	478	499	471	
1/2 Year or Less	1,283	3	47	53	429	451	419	
No Response	15,933		51	49	481	498	470	
AP/Honors Courses	20,664	47	44	56	573	583	564	
Course Work or Experience								
U.S. History	45,366	98	46	54	525	536	514	
World History or Cultures	37,164	80	46	54	530	541	519	
U.S. Government or Civics	12,580	27	48	52	527	534	515	
Economics	7,190	15	60	40	552	574	543	
Geography	2,951	6	52	48	504	521	496	
Psychology	18,027	39	34	66	532	537	523	
European History	10,105	22	51	49	561	567	551	
Sociology	6,767	15	34	66	512	513	499	
Ancient History	4,941	11	50	50	553	561	544	
Other Courses	9,247	20	44	56	528	535	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	5,492	12	40	60	564	577	559
4 Years	15,181	34	43	57	568	579	563
3 Years	12,536	28	47	53	525	537	512
2 Years	7,518	17	49	51	483	491	463
1 Year	1,186	3	46	54	455	469	440
1/2 Year or Less	2,544	6	51	49	432	452	415
No Response	15,843		51	49	480	497	469
AP/Honors Courses	16,089	36	40	60	580	593	574
Course Work or Experience							
Chinese	1,912	4	54	46	554	588	544
French	8,799	19	39	61	554	557	542
German	745	2	52	48	575	578	561
Greek	246	1	52	48	569	575	557
Hebrew	138	0	41	59	580	590	578
Italian	1,490	3	45	55	511	521	500
Japanese	195	0	46	54	546	558	531
Korean	52	0	38	62	479	535	486
Latin	5,446	12	47	53	570	575	557
Russian	169	0	49	51	534	564	527
Spanish	30,442	66	46	54	518	530	508
Other Languages	1,763	4	36	64	494	504	483

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

Arts and Music Years of Study	Test-Takers		Percent by Gender		SAT Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	2,456	10	34	66	554	555	542
4 Years	4,830	20	35	65	549	548	538
3 Years	2,861	12	38	62	525	531	513
2 Years	4,642	19	44	56	518	528	507
1 Year	4,348	18	46	54	513	529	502
1/2 Year or Less	5,127	21	53	47	491	508	477
No Response	36,036		50	50	513	530	504
AP/Honors Courses	3,804	16	34	66	565	569	556
Course Work or Experience							
Acting or Play Production	7,846	18	34	66	562	552	549
Art History or Appreciation	5,634	13	39	61	530	530	520
Dance	5,503	13	10	90	522	525	520
Drama: Study or Appreciation	6,339	15	33	67	544	537	533
Music: Study or Appreciation	6,530	15	49	51	555	554	542
Music Performance	16,012	37	42	58	555	561	544
Photography or Film	11,089	26	37	63	534	540	526
Studio Art and Design	13,474	32	36	64	543	550	534
None	8,582	20	58	42	493	514	480

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
13,067	34,275	12,324	629	653	626

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	1,703	13
2	4,694	36
3	4,420	34
4 or More	2,250	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 pre-March 2016 SAT.

	SAT Subject Test			SAT						
	N	Mean	SD	N	Critical Reading Mean	SD	Mathematics Mean	SD	Writing Mean	SD
English										
Literature	4,186	625	105	3,913	648	95	634	92	642	97
History and Social Studies										
U.S. History	4,212	633	102	3,991	646	90	651	89	641	91
World History	651	617	104	624	662	86	658	86	653	87
Mathematics										
Mathematics Level 1	4,925	622	97	4,639	607	98	637	89	607	100
Mathematics Level 2	6,811	691	90	6,445	650	93	697	71	651	92
Science										
Biology-E	2,360	647	94	2,200	642	90	660	90	639	93
Biology-M	2,798	654	92	2,671	641	92	665	84	640	91
Chemistry	3,801	656	101	3,590	649	97	691	81	647	95
Physics	1,819	656	92	1,748	642	100	702	77	639	97
Foreign and Classical Languages										
Chinese/Listening	124	740	83	116	606	134	681	97	616	122
French	566	625	111	541	660	91	653	89	658	90
French/Listening	137	656	95	132	646	87	633	82	639	85
German	37	641	125	36	678	73	672	57	678	76
German/Listening	24	644		23	654		628		650	
Modern Hebrew	25	623	157	22	647		670		670	
Italian	45	664	107	40	648	77	623	92	648	82
Japanese/Listening	49	705	130	46	601	104	686	74	604	96
Korean/Listening	23	762		20	617		700		638	
Latin	451	643	106	438	679	88	686	79	684	84
Spanish	1,072	630	101	1,004	629	106	637	104	636	106
Spanish/Listening	159	633	108	151	632	91	636	87	637	90

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	479	11	581	14	76	12
700-740	724	17	752	18	96	15
650-690	782	19	758	18	110	17
600-640	740	18	738	18	80	12
550-590	560	13	540	13	111	17
500-540	356	9	405	10	83	13
450-490	260	6	212	5	68	10
400-440	166	4	130	3	15	2
350-390	92	2	75	2	11	2
300-340	23	1	16	0	1	0
250-290	4	0	5	0		
200-240						
Total	4,186		4,212		651	
Mean	625		633		617	
SD	105		102		104	
75th percentile	710		710		700	
50th percentile	640		640		620	
25th percentile	560		570		540	

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	378	8	2,448	36	353	15	492	18	902	24	345	19
700-740	918	19	1,062	16	477	20	542	19	621	16	339	19
650-690	930	19	1,182	17	439	19	550	20	662	17	353	19
600-640	922	19	988	15	458	19	518	19	571	15	310	17
550-590	708	14	745	11	318	13	371	13	435	11	238	13
500-540	507	10	265	4	177	8	206	7	322	8	142	8
450-490	297	6	74	1	60	3	56	2	183	5	65	4
400-440	167	3	35	1	36	2	27	1	91	2	27	1
350-390	81	2	9	0	30	1	23	1	14	0		
300-340	14	0	3	0	10	0	10	0				
250-290	3	0			2	0	3	0				
200-240												
Total	4,925		6,811		2,360		2,798		3,801		1,819	
Mean	622		691		647		654		656		656	
SD	97		90		94		92		101		92	
75th percentile	700		770		720		720		740		730	
50th percentile	630		700		650		660		670		660	
25th percentile	560		620		590		600		590		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	84	68	102	18	29	21	8	22	2	8	9	36
700-740	12	10	72	13	14	10	8	22	4	17	2	8
650-690	10	8	86	15	35	26	6	16	8	33	3	12
600-640	8	6	72	13	22	16	4	11	5	21	1	4
550-590	4	3	76	13	19	14	1	3	2	8	1	4
500-540	4	3	88	16	9	7	4	11	2	8	2	8
450-490	2	2	42	7	7	5	2	5			2	8
400-440			16	3	2	1	3	8	1	4	2	8
350-390			10	2			1	3			2	8
300-340			2	0							1	4
250-290												
200-240												
Total	124		566		137		37		24		25	
Mean	740		625		656		641		644		623	
SD	83		111		95		125				157	
75th percentile	800		720		720		730		680		750	
50th percentile	780		630		660		670		660		650	
25th percentile	710		540		590		520		600		470	

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	12	27	28	57	18	78	103	23	148	14	30	19
700-740	8	18	7	14	2	9	64	14	171	16	22	14
650-690	6	13	4	8	1	4	62	14	192	18	22	14
600-640	9	20			2	9	67	15	189	18	29	18
550-590	4	9	5	10			56	12	139	13	21	13
500-540	4	9	1	2			54	12	120	11	11	7
450-490			1	2			34	8	62	6	16	10
400-440			1	2			9	2	36	3	7	4
350-390	2	4	1	2			2	0	13	1		
300-340									2	0	1	1
250-290												
200-240			1	2								
Total	45		49		23		451		1,072		159	
Mean	664		705		762		643		630		633	
SD	107		130				106		101		108	
75th percentile	740		790		800		730		710		730	
50th percentile	670		770		790		650		640		640	
25th percentile	600		660		730		560		560		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	327	1	490	485	476
Architecture and Related Services	547	1	504	542	496
Area, Ethnic, Cultural and Gender Studies	78	0	575	535	559
Biological and Biomedical Sciences	3,608	7	559	568	550
Business Management, Marketing, and Related Support Services	6,874	14	511	540	507
Communication, Journalism and Related Programs	1,264	3	539	521	531
Computer and Information Sciences and Support Services	1,821	4	548	579	522
Construction Trades	37	0	435	455	413
Education	2,400	5	496	497	489
Engineering	4,601	9	545	590	525
Engineering Technologies/Technicians	638	1	498	535	477
English Language and Literature/Letters	727	1	594	541	574
Family and Consumer Sciences/Human Sciences	101	0	459	482	458
Foreign Languages, Literatures, and Linguistics	319	1	602	580	589
Health Professions and Related Clinical Services	7,883	16	497	511	494
History	498	1	569	534	541
Legal Professions and Studies	895	2	535	531	524
Liberal Arts and Sciences, General Studies, and Humanities	466	1	574	553	565
Library Science And Administration	7	0	559	483	519
Mathematics and Statistics	545	1	578	652	576
Mechanic and Repair Technologies/Technician	71	0	436	471	421
Military Technologies And Applied Sciences	197	0	490	498	463
Multi/Interdisciplinary Studies	391	1	598	605	590
Natural Resources and Conservation	324	1	546	541	527
Parks, Recreation, Leisure and Fitness Studies	398	1	469	492	457
Personal and Culinary Services	141	0	466	478	443
Philosophy and Religious Studies	73	0	602	572	580
Physical Sciences	698	1	577	604	556
Precision Production	3	0			
Psychology	2,403	5	513	504	505
Public Administration and Social Services Professions	181	0	507	491	500
Security and Protective Services	2,024	4	464	475	450
Social Sciences	1,078	2	587	569	574
Theology and Religious Vocations	31	0	525	529	526
Transportation and Materials Moving	15	0	505	549	492
Visual and Performing Arts	3,097	6	526	515	512
Other	766	2	464	472	450
Undecided	4,773	9	554	567	544
Degree-Level Goal					
Certificate Program	234	0	442	455	422
Associate Degree	295	1	409	416	388
Bachelor's Degree	13,797	28	492	504	479
Master's Degree	17,724	36	531	544	522
Doctoral or Related Degree	9,119	18	563	574	555
Other	194	0	424	445	412
Undecided	8,378	17	537	547	525

College Plans

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

Of the 61,043 students from your state who took the SAT and/or an SAT Subject Test, 47,875 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 1,857 institutions received score reports from your students.

Institution	State	Type	Number of Students	Percent of Score Senders*
University of Massachusetts Amherst	MA	Public	18,508	38.7
University of Massachusetts Lowell	MA	Public	8,318	17.4
Northeastern University	MA	Private	8,033	16.8
Boston University	MA	Private	6,885	14.4
University of New Hampshire	NH	Public	6,799	14.2
University of Massachusetts Dartmouth	MA	Public	6,342	13.2
University of Massachusetts Boston	MA	Public	5,957	12.4
Bridgewater State University	MA	Public	5,723	12.0
Salem State University	MA	Public	5,365	11.2
Framingham State University	MA	Public	5,003	10.5
University of Rhode Island	RI	Public	4,956	10.4
University of Connecticut	CT	Public	4,309	9.0
Westfield State University	MA	Public	4,256	8.9
Boston College	MA	Private	4,091	8.5
University of Vermont	VT	Public	3,917	8.2
Suffolk University	MA	Private	3,765	7.9
Worcester State University	MA	Public	3,464	7.2
Quinnipiac University	CT	Private	3,409	7.1
Fitchburg State University	MA	Public	3,341	7.0
Worcester Polytechnic Institute	MA	Private	3,087	6.4
Wentworth Institute of Technology	MA	Private	2,951	6.2
Tufts University	MA	Private	2,812	5.9
University of Maine	ME	Public	2,704	5.6
Curry College	MA	Private	2,704	5.6
Merrimack College	MA	Private	2,669	5.6
Harvard College	MA	Private	2,541	5.3
Brown University	RI	Private	2,349	4.9
Bentley University	MA	Private	2,295	4.8
Roger Williams University	RI	Private	2,261	4.7
Syracuse University	NY	Private	2,142	4.5
New York University	NY	Private	2,089	4.4
MCPHS University	MA	Private	2,088	4.4
Cornell University	NY	Private	1,997	4.2
Providence College	RI	Private	1,968	4.1
Bryant University	RI	Private	1,853	3.9
Stonehill College	MA	Private	1,846	3.9
Endicott College	MA	Private	1,807	3.8
Fordham University	NY	Private	1,746	3.6
Brandeis University	MA	Private	1,624	3.4
Emmanuel College	MA	Private	1,619	3.4
Western New England University	MA	Private	1,558	3.3
Dartmouth College	NH	Private	1,500	3.1
Keene State College	NH	Public	1,486	3.1
Lesley University	MA	Private	1,440	3.0
Assumption College	MA	Private	1,405	2.9

*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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