



2013 College-Bound Seniors

State Profile Report



PENNSYLVANIA

Included in This Report

[SAT® Data](#)

[SAT Subject Tests™ 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	101,368	494	107	504	111	482	109	48.4	11.0	7.0	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	47,231	497	109	520	114	476	110	48.1	11.0	6.8	1.7
Female	54,137	491	105	489	106	487	108	48.6	10.9	7.2	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)	60,598	480	105	490	108	468	106	46.9	10.6	6.8	1.6
Junior (2011-2012)	40,653	514	107	524	111	503	111	50.5	11.1	7.3	1.5
Sophomore (2010-2011)	106	562	117	584	128	550	121	55.5	12.3	7.6	1.6
Freshman (2009-2010)	11	499		505		475		48.5		6.7	
Total	101,368	494	107	504	111	482	109	48.4	11.0	7.0	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	560	580	550	570	600	560
50th	490	500	480	490	510	480
25th	420	430	410	420	430	410

Table 6: Score Distributions

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

SAT Score Range	Critical Reading			Mathematics			Writing		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
700–800	1,813	1,701	3,514	3,033	1,579	4,612	1,377	1,831	3,208
600-690	6,922	6,877	13,799	9,258	7,162	16,420	5,502	6,956	12,458
500-590	14,767	17,034	31,801	15,189	16,586	31,775	12,416	15,552	27,968
400-490	15,836	19,230	35,066	13,503	18,996	32,499	16,747	19,096	35,843
300-390	6,426	7,664	14,090	5,043	8,077	13,120	9,156	9,015	18,171
200-290	1,467	1,631	3,098	1,205	1,737	2,942	2,033	1,687	3,720

Table 7: Type of High School

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Public	85,021	86	46	54	489	501	476
Religiously Affiliated	11,429	12	49	51	523	520	519
Independent	2,279	2	54	46	537	552	533
Other or Unknown	2,639		48	52	480	465	457

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	5,966	6	459	110	459	110	439	106
Nonstandard Conditions	2,598	3	452	120	456	126	444	116

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	268	0	464	106	464	109	441	109
Asian, Asian American, or Pacific Islander	4,834	5	503	137	575	132	507	141
Black or African American	11,503	11	411	98	411	98	395	96
Mexican or Mexican American	573	1	463	107	465	98	448	105
Puerto Rican	1,968	2	431	102	433	99	418	99
Other Hispanic, Latino, or Latin American	2,292	2	454	113	455	110	439	112
White	74,914	74	511	98	519	101	499	100
Other	2,274	2	485	117	487	118	471	116
No Response	2,742	3	456	119	457	114	437	117
Total	101,368	100	494	107	504	111	482	109

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	127	0	471	109	480	113	435	114
Asian, Asian American, or Pacific Islander	2,313	2	500	141	586	133	497	143
Black or African American	5,349	5	410	100	420	101	387	95
Mexican or Mexican American	272	0	467	113	479	108	448	106
Puerto Rican	868	1	437	105	448	104	418	102
Other Hispanic, Latino, or Latin American	954	1	464	117	477	115	441	114
White	34,920	34	515	99	537	103	493	101
Other	999	1	490	122	506	126	467	121
No Response	1,429	1	454	117	466	115	426	114
Total	47,231	47	497	109	520	114	476	110

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	141	0	458	103	449	103	446	104
Asian, Asian American, or Pacific Islander	2,521	2	506	133	564	130	516	137
Black or African American	6,154	6	412	97	404	94	402	96
Mexican or Mexican American	301	0	459	101	453	87	447	105
Puerto Rican	1,100	1	427	100	421	94	418	97
Other Hispanic, Latino, or Latin American	1,338	1	446	109	439	104	438	110
White	39,994	39	507	96	504	97	504	99
Other	1,275	1	481	112	471	109	473	112
No Response	1,313	1	458	121	448	111	449	119
Total	54,137	53	491	105	489	106	487	108

Demographic Information

SAT: Student Background Information and Characteristics

Table 12: Student Background Information and Characteristics

Student demographic information provides a broader context to aid in interpreting and understanding individual and group scores.

SAT	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
All Test-Takers	101,368	100	494	107	504	111	482	109
First Language Learned								
English	87,578	89	498	103	505	107	485	106
English and Another	6,722	7	472	118	490	125	464	121
Another Language	4,307	4	449	131	510	141	451	132
No Response	2,761		470	131	480	132	457	133
Citizenship								
U.S. Citizen / U.S. National	93,401	97	498	104	506	108	486	107
U.S. Permanent Resident or Refugee	1,761	2	439	135	487	138	439	135
Citizen of Another Country	986	1	450	125	560	143	463	130
Other, Unknown, or No Response	5,220		439	122	457	128	426	123
Plans to Apply for Financial Aid								
Yes	69,138	79	495	103	502	106	481	104
No	4,049	5	523	108	540	113	519	113
Don't Know	14,099	16	503	108	519	112	493	112
No Response	14,082		472	122	487	125	462	125
Family Income								
\$0 - \$20,000	4,267	9	429	104	436	104	412	99
\$20,000–\$40,000	6,902	14	462	99	468	100	445	96
\$40,000–\$60,000	7,944	16	481	94	487	98	463	94
\$60,000–\$80,000	8,065	17	490	92	497	96	473	94
\$80,000–\$100,000	6,711	14	499	95	510	98	486	96
\$100,000–\$120,000	5,279	11	514	97	525	100	502	98
\$120,000–\$140,000	2,709	6	518	95	532	99	508	98
\$140,000–\$160,000	1,838	4	526	99	539	101	517	99
\$160,000–\$200,000	2,101	4	536	98	546	103	528	101
More than \$200,000	2,973	6	562	102	580	104	560	107
No Response	52,579		495	112	505	116	485	115
Highest Level of Parental Education								
No High School Diploma	2,058	2	406	101	431	113	393	99
High School Diploma	30,165	34	461	95	469	99	445	94
Associate Degree	8,844	10	477	90	484	94	462	90
Bachelor's Degree	28,401	32	518	97	529	102	507	100
Graduate Degree	19,951	22	555	106	562	110	546	110
No Response	11,949		447	108	460	111	436	109
Took the PSAT/NMSQT®								
Yes, As a Junior	29,779	33	494	101	504	103	482	101
Yes, As a Sophomore or Younger	13,801	15	509	99	521	104	498	102
Yes, As a Junior and As a Sophomore or Younger	23,358	26	541	103	552	107	535	106
No	23,904	26	456	96	461	99	437	94
No Response	10,526		454	120	468	122	443	121

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	12,595	31	42	58	578	601	574
Second Tenth	10,947	27	45	55	514	532	504
Second Fifth	7,899	20	51	49	485	498	469
Final Three Fifths	8,932	22	52	48	438	443	423
No Response	60,995		46	54	482	488	469

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)	7,717	8	39	61	581	601	578
A (93–96)	22,367	24	39	61	544	560	538
A- (90–92)	19,166	20	44	56	511	524	502
B (80–89)	37,888	40	51	49	459	465	443
C (70–79)	6,945	7	60	40	407	408	386
D, E, or F (below 70)	245	0	61	39	399	399	385
No Response	7,040		51	49	464	468	446
Mean Grade Point Average	All Students: 3.45		Male: 3.37		Female: 3.53		

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	1.9	2.4	2.2	3.65	3.83	3.75
English and Language Arts	3.9	3.9	3.9	3.35	3.58	3.48
Foreign and Classical Languages	2.7	2.9	2.8	3.22	3.48	3.36
Mathematics	3.9	3.9	3.9	3.28	3.32	3.30
Natural Sciences	3.7	3.7	3.7	3.31	3.38	3.35
Social Sciences and History	3.7	3.7	3.7	3.47	3.52	3.50
Total for All Subjects	19.8	20.5	20.2			

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	9,829	12	43	57	509	519	500
4 Years	57,818	71	46	54	507	516	495
3 Years	10,804	13	44	56	464	471	452
2 Years	1,535	2	47	53	454	473	444
1 Year	771	1	46	54	444	462	432
1/2 Year or Less	1,234	2	53	47	423	437	403
No Response	19,377		50	50	472	486	461
AP®/Honors Courses	29,988	37	38	62	561	564	552
Course Work or Experience							
English/Language Arts	72,974	96	45	55	500	508	488
Journalism	7,319	10	35	65	496	489	487
Creative Writing	17,658	23	38	62	497	491	485
American Literature	48,913	64	44	56	505	510	493
Composition/Writing	37,576	49	43	57	500	504	489
British Literature	22,506	30	44	56	519	521	506
World Literature	27,331	36	45	55	508	512	496
Communications	9,957	13	44	56	489	496	478
Public Speaking	18,522	24	43	57	503	508	492
English As Second Language	3,359	4	44	56	422	465	419

Mathematics Years of Study	Test-Takers		Percent by Gender		SAT Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	14,914	18	47	53	518	545	509
4 Years	49,707	61	46	54	506	513	494
3 Years	14,102	17	43	57	467	463	452
2 Years	1,412	2	49	51	453	466	442
1 Year	615	1	52	48	433	454	424
1/2 Year or Less	1,285	2	47	53	426	428	406
No Response	19,333		50	50	473	486	461
AP/Honors Courses	27,550	34	47	53	559	590	552
Highest Level of Mathematics Achieved*							
Calculus	27,645	35	49	51	553	585	545
Pre-calculus	19,477	24	42	58	499	506	487
Geometry	29,879	37	44	56	454	444	437
Algebra II	1,059	1	48	52	439	429	416
Algebra I	384	0	47	53	402	382	386

*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	11,938	15	45	55	529	549	520	
4 Years	42,323	52	46	54	510	519	498	
3 Years	19,520	24	44	56	477	478	462	
2 Years	3,142	4	51	49	463	474	450	
1 Year	1,644	2	48	52	458	469	444	
1/2 Year or Less	2,353	3	46	54	428	438	412	
No Response	20,448		50	50	472	485	460	
AP/Honors Courses	25,981	32	44	56	564	584	556	
Course Work or Experience								
Biology	75,665	97	45	55	500	509	488	
Chemistry	71,648	92	45	55	504	514	492	
Physics	47,992	62	48	52	519	535	507	
Geology, Earth, or Space Science	41,372	53	45	55	487	491	473	
Other Sciences	30,145	39	40	60	496	502	484	

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	9,997	12	45	55	520	528	509	
4 Years	49,300	60	46	54	509	518	497	
3 Years	17,106	21	44	56	475	484	462	
2 Years	2,507	3	49	51	456	471	444	
1 Year	1,047	1	48	52	442	462	431	
1/2 Year or Less	1,568	2	49	51	420	435	404	
No Response	19,843		50	50	472	485	460	
AP/Honors Courses	29,184	36	44	56	562	570	552	
Course Work or Experience								
U.S. History	69,429	90	45	55	503	511	490	
World History or Cultures	64,138	83	45	55	500	509	488	
U.S. Government or Civics	49,183	64	45	55	501	509	488	
Economics	26,705	35	46	54	504	514	491	
Geography	13,841	18	46	54	485	490	472	
Psychology	28,632	37	36	64	512	514	500	
European History	22,689	30	48	52	530	535	518	
Sociology	14,785	19	36	64	499	499	486	
Ancient History	11,722	15	47	53	504	505	491	
Other Courses	13,330	17	43	57	495	501	482	

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	6,358	8	39	61	555	565	552
4 Years	19,683	24	41	59	545	553	539
3 Years	21,941	27	45	55	507	518	496
2 Years	23,755	29	49	51	469	477	452
1 Year	4,290	5	52	48	438	441	416
1/2 Year or Less	5,168	6	53	47	414	426	395
No Response	20,173		50	50	471	484	459
AP/Honors Courses	14,682	18	39	61	576	588	575
Course Work or Experience							
Chinese	1,465	2	46	54	518	548	504
French	14,884	19	36	64	514	514	501
German	7,757	10	55	45	520	526	498
Greek	287	0	46	54	535	525	526
Hebrew	206	0	41	59	509	504	507
Italian	1,433	2	43	57	499	497	488
Japanese	600	1	43	57	517	518	490
Korean	135	0	40	60	436	490	436
Latin	5,651	7	48	52	549	548	535
Russian	310	0	49	51	477	492	469
Spanish	51,329	66	45	55	495	505	485
Other Languages	869	1	41	59	480	480	466

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	6,580	8	35	65	520	519	509
4 Years	16,168	20	37	63	522	523	511
3 Years	10,388	13	38	62	494	496	482
2 Years	14,444	18	45	55	489	498	478
1 Year	12,117	15	51	49	494	507	481
1/2 Year or Less	19,274	24	57	43	485	503	470
No Response	22,397		51	49	477	491	466
AP/Honors Courses	4,419	6	36	64	569	569	562
Course Work or Experience							
Acting or Play Production	12,135	17	32	68	536	523	524
Art History or Appreciation	12,049	16	37	63	504	500	492
Dance	7,637	10	10	90	491	489	489
Drama: Study or Appreciation	8,479	12	28	72	512	501	502
Music: Study or Appreciation	12,694	17	46	54	524	519	510
Music Performance	27,937	38	39	61	523	526	512
Photography or Film	14,927	20	34	66	501	501	491
Studio Art and Design	15,726	21	33	67	512	511	501
None	19,693	27	60	40	477	498	462

Computers	Test-Takers		Percent by Gender		SAT Mean Scores		
Course Work or Experience	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Computer Literacy	47,420	64	45	55	506	513	494
Computer Programming	13,485	18	60	40	497	515	483
Word Processing	46,432	63	44	56	506	512	493
Internet Activity	34,141	46	45	55	506	512	493
Using Computer Graphics	26,008	35	50	50	504	514	490
Creating Spreadsheets/Databases	28,870	39	45	55	509	519	497
None	10,440	14	40	60	483	492	473

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
8,926	22,245	8,723	636	660	638

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	922	10
2	4,019	45
3	2,983	33
4 or More	1,002	11

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

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

	SAT Subject Test			SAT						
	N	Mean	SD	N	Critical Reading Mean	SD	Mathematics Mean	SD	Writing Mean	SD
English										
Literature	2,661	631	91	2,602	654	86	629	85	651	88
History and Social Studies										
U.S. History	3,017	663	95	2,937	654	81	654	85	653	84
World History	487	630	100	477	657	82	651	87	654	85
Mathematics										
Mathematics Level 1	3,552	634	85	3,452	618	89	645	79	621	91
Mathematics Level 2	4,564	693	81	4,479	649	88	700	66	655	86
Science										
Biology-E	928	642	93	904	644	89	654	89	640	95
Biology-M	1,518	663	89	1,494	647	83	671	80	651	86
Chemistry	2,566	664	96	2,520	648	87	695	73	652	87
Physics	1,381	659	88	1,362	644	89	704	67	640	89
Foreign and Classical Languages										
Chinese/Listening	99	731	102	99	638	123	699	89	639	131
French	308	594	105	301	653	84	646	84	661	85
French/Listening	65	614	119	65	645	100	652	73	654	109
German	49	573	109	47	659	79	654	69	651	88
German/Listening	30	565	124	29	650	95	625	90	642	98
Modern Hebrew	16	538		15	621		635		643	
Italian	14	714		14	658		621		639	
Japanese/Listening	22	663		22	600		653		631	
Korean/Listening	42	786	22	41	567	109	690	82	610	99
Latin	168	609	101	167	681	78	670	86	687	79
Spanish	646	599	110	632	645	83	648	83	662	83
Spanish/Listening	112	610	121	111	630	89	615	94	634	96

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	201	8	639	21	75	15
700-740	491	18	672	22	63	13
650-690	603	23	601	20	87	18
600-640	536	20	420	14	75	15
550-590	377	14	318	11	76	16
500-540	236	9	179	6	60	12
450-490	119	4	104	3	37	8
400-440	60	2	52	2	12	2
350-390	26	1	30	1	2	0
300-340	11	0	2	0		
250-290	1	0				
200-240						
Total	2,661		3,017		487	
Mean	631		663		630	
SD	91		95		100	
75th percentile	700		740		710	
50th percentile	640		680		640	
25th percentile	580		600		550	

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	260	7	1,503	33	130	14	321	21	627	24	280	20
700-740	705	20	805	18	159	17	266	18	472	18	223	16
650-690	785	22	891	20	182	20	332	22	444	17	281	20
600-640	757	21	782	17	186	20	258	17	394	15	275	20
550-590	518	15	418	9	139	15	185	12	294	11	182	13
500-540	268	8	119	3	69	7	106	7	201	8	83	6
450-490	172	5	36	1	36	4	26	2	88	3	38	3
400-440	58	2	8	0	17	2	12	1	38	1	19	1
350-390	19	1	1	0	3	0	10	1	8	0		
300-340	9	0	1	0	7	1	2	0				
250-290	1	0										
200-240												
Total	3,552		4,564		928		1,518		2,566		1,381	
Mean	634		693		642		663		664		659	
SD	85		81		93		89		96		88	
75th percentile	700		760		710		730		740		730	
50th percentile	640		700		650		670		680		660	
25th percentile	580		630		580		600		600		600	

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	69	70	27	9	10	15	4	8	2	7	3	19
700-740	10	10	30	10	7	11	3	6	4	13		
650-690	2	2	46	15	10	15	6	12	4	13	1	6
600-640	3	3	55	18	9	14	8	16	3	10		
550-590	7	7	39	13	10	15	7	14	2	7	2	13
500-540	2	2	48	16	7	11	9	18	4	13	1	6
450-490	4	4	36	12	5	8	7	14	5	17	4	25
400-440	1	1	25	8	5	8	3	6	3	10	4	25
350-390	1	1	2	1	2	3	2	4	3	10		
300-340											1	6
250-290												
200-240												
Total	99		308		65		49		30		16	
Mean	731		594		614		573		565		538	
SD	102		105		119		109		124			
75th percentile	790		670		690		640		670			
50th percentile	780		600		610		560		540			
25th percentile	730		510		510		480		460			

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	9	64	7	32	40	95	18	11	62	10	19	17
700-740	1	7	4	18	1	2	23	14	74	11	10	9
650-690			3	14	1	2	17	10	97	15	17	15
600-640	1	7	1	5			35	21	115	18	23	21
550-590	2	14	4	18			26	15	92	14	9	8
500-540			1	5			21	13	84	13	11	10
450-490							19	11	58	9	9	8
400-440	1	7	2	9			9	5	41	6	8	7
350-390									17	3	5	4
300-340									5	1	1	1
250-290									1	0		
200-240												
Total	14		22		42		168		646		112	
Mean	714		663		786		609		599		610	
SD					22		101		110		121	
75th percentile			760		800		690		690		700	
50th percentile			680		800		610		610		620	
25th percentile			560		780		530		520		510	

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	688	1	472	477	454
Architecture and Related Services	1,302	2	490	520	481
Area, Ethnic, Cultural and Gender Studies	92	0	561	529	553
Biological and Biomedical Sciences	5,103	6	537	548	528
Business Management, Marketing, and Related Support Services	9,536	11	489	514	481
Communication, Journalism and Related Programs	2,500	3	513	491	506
Computer and Information Sciences and Support Services	2,302	3	513	534	483
Construction Trades	159	0	422	452	390
Education	5,976	7	483	487	477
Engineering	7,278	8	534	584	518
Engineering Technologies/Technicians	895	1	479	519	456
English Language and Literature/Letters	1,078	1	580	518	563
Family and Consumer Sciences/Human Sciences	349	0	446	447	440
Foreign Languages, Literatures, and Linguistics	631	1	570	545	566
Health Professions and Related Clinical Services	17,447	20	481	494	477
History	1,153	1	529	499	499
Legal Professions and Studies	1,980	2	510	502	495
Liberal Arts and Sciences, General Studies, and Humanities	640	1	525	504	511
Library Science And Administration	20	0	583	523	527
Mathematics and Statistics	719	1	509	585	503
Mechanic and Repair Technologies/Technician	235	0	422	444	386
Military Technologies And Applied Sciences	455	1	495	508	467
Multi/Interdisciplinary Studies	345	0	593	592	579
Natural Resources and Conservation	496	1	505	508	485
Parks, Recreation, Leisure and Fitness Studies	722	1	444	467	434
Personal and Culinary Services	395	0	439	443	421
Philosophy and Religious Studies	174	0	551	528	525
Physical Sciences	1,411	2	539	564	522
Precision Production	16	0	404	488	391
Psychology	4,064	5	500	483	487
Public Administration and Social Services Professions	275	0	475	461	467
Security and Protective Services	2,678	3	453	457	435
Social Sciences	1,357	2	556	536	538
Theology and Religious Vocations	141	0	512	502	500
Transportation and Materials Moving	37	0	452	488	435
Visual and Performing Arts	5,388	6	505	490	491
Other	1,711	2	456	463	440
Undecided	6,113	7	526	536	515
Degree-Level Goal					
Certificate Program	1,007	1	433	443	414
Associate Degree	1,808	2	417	421	400
Bachelor's Degree	32,315	37	479	487	465
Master's Degree	22,696	26	509	520	499
Doctoral or Related Degree	14,651	17	536	546	527
Other	551	1	421	427	408
Undecided	15,237	17	499	507	485

College Plans

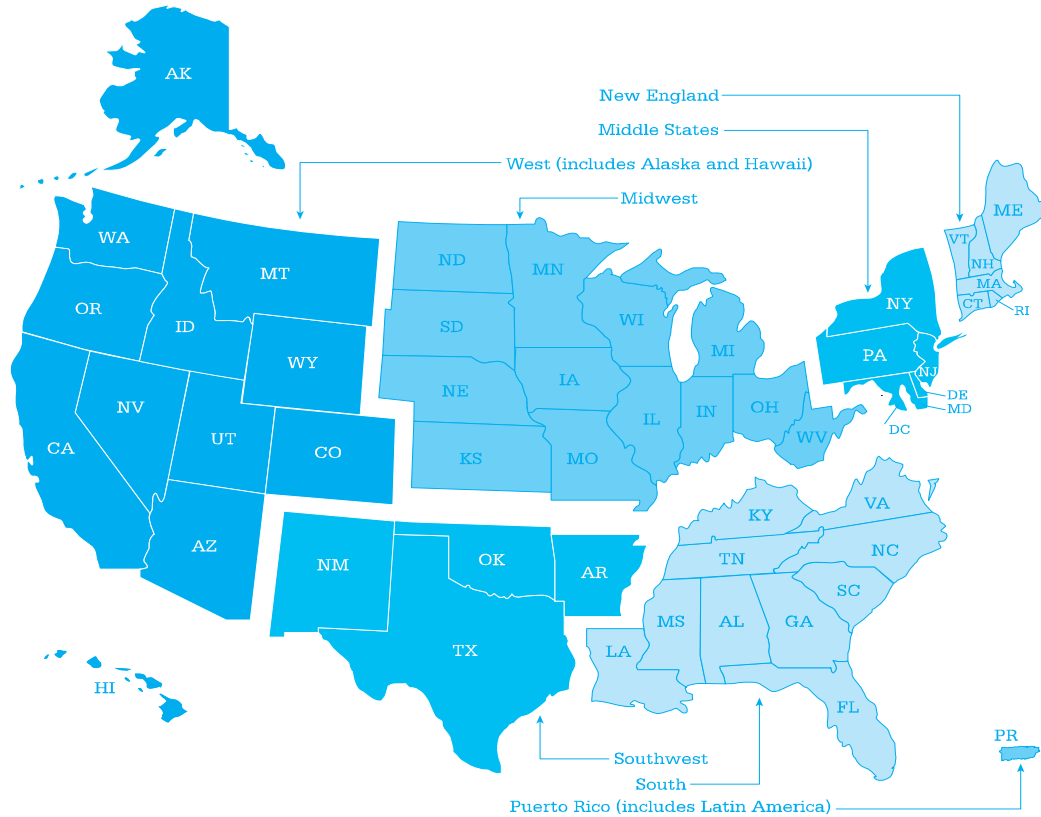
Table 27: Institutions That Received the Most SAT Program Score Reports from Your Students

Of the 101,572 students from your state who took the SAT and/or an SAT Subject Test, 70,458 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 2,367 institutions received score reports from your students.

Institution	State	Type	Number of Students	Percent of Score Senders*
PENNSYLVANIA STATE UNIVERSITY	PA	Public	24,938	35.4
UNIVERSITY OF PITTSBURGH PITTSBURGH	PA	Private	14,000	19.9
TEMPLE UNIVERSITY	PA	Private	11,771	16.7
WEST CHESTER UNIVERSITY OF PENNSYLVANIA	PA	Public	9,578	13.6
DREXEL UNIVERSITY	PA	Private	9,146	13.0
BLOOMSBURG UNIVERSITY OF PENNSYLVANIA	PA	Public	6,890	9.8
INDIANA UNIVERSITY OF PENNSYLVANIA	PA	Public	6,262	8.9
KUTZTOWN UNIVERSITY OF PENNSYLVANIA	PA	Public	5,253	7.5
MILLERSVILLE UNIVERSITY OF PENNSYLVANIA	PA	Public	4,457	6.3
NCAA ELIGIBILITY CENTER	IN	Public	4,452	6.3
SHIPPENSBURG UNIVERSITY OF PENNSYLVANIA	PA	Public	4,228	6.0
UNIVERSITY OF PENNSYLVANIA UNDERGRADUATE	PA	Private	3,855	5.5
UNIVERSITY OF DELAWARE	DE	Public	3,738	5.3
DUQUESNE UNIVERSITY	PA	Private	3,644	5.2
SLIPPERY ROCK UNIVERSITY OF PENNSYLVANIA	PA	Public	3,378	4.8
EAST STROUDSBURG UNIVERSITY OF PENNSYLVANIA	PA	Public	2,883	4.1
YORK COLLEGE OF PENNSYLVANIA	PA	Private	2,832	4.0
JOHNS HOPKINS UNIVERSITY CENTER FOR TALE	MD	Private	2,715	3.9
LEHIGH UNIVERSITY	PA	Private	2,674	3.8
VILLANOVA UNIVERSITY	PA	Private	2,634	3.7
ROBERT MORRIS UNIVERSITY	PA	Private	2,556	3.6
WEST VIRGINIA UNIVERSITY MORGANTOWN	WV	Public	2,546	3.6
ARCADIA UNIVERSITY	PA	Private	2,513	3.6
SAINT JOSEPH'S UNIVERSITY	PA	Private	2,399	3.4
LOCK HAVEN UNIVERSITY OF PENNSYLVANIA	PA	Public	2,376	3.4
CALIFORNIA UNIVERSITY OF PENNSYLVANIA	PA	Public	2,308	3.3
CARNEGIE MELLON UNIVERSITY	PA	Private	2,294	3.3
BOSTON UNIVERSITY	MA	Private	2,175	3.1
UNIVERSITY OF MARYLAND	MD	Public	2,118	3.0
CORNELL UNIVERSITY	NY	Private	1,972	2.8
NEW YORK UNIVERSITY	NY	Private	1,912	2.7
CLARION UNIVERSITY OF PENNSYLVANIA	PA	Public	1,804	2.6
BUCKNELL UNIVERSITY	PA	Private	1,798	2.6
UNIVERSITY OF SCRANTON	PA	Private	1,785	2.5
LA SALLE UNIVERSITY	PA	Private	1,772	2.5
JAMES MADISON UNIVERSITY	VA	Public	1,676	2.4
WIDENER UNIVERSITY	PA	Private	1,656	2.4
OHIO STATE UNIVERSITY COLUMBUS	OH	Public	1,595	2.3
EDINBORO UNIVERSITY OF PENNSYLVANIA	PA	Public	1,578	2.2
SYRACUSE UNIVERSITY	NY	Private	1,574	2.2
PRINCETON UNIVERSITY	NJ	Private	1,547	2.2
ALBRIGHT COLLEGE	PA	Private	1,484	2.1
NORTHEASTERN UNIVERSITY	MA	Private	1,465	2.1
UNIVERSITY OF VIRGINIA	VA	Public	1,426	2.0
JOHNS HOPKINS UNIVERSITY UNDERGRADUATE A	MD	Private	1,352	1.9

*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.

Areas Served by College Board Regional Offices



National Office

45 Columbus Avenue
New York, NY 10023-6992
212-713-8000
212-713-8255 (Fax)

Middle States Regional Office

Three Bala Plaza East, Suite 501
Bala Cynwyd, PA 19004-1501
866-392-3019
610-227-2580 (Fax)

Midwestern Regional Office

8700 West Bryn Mawr Avenue, Suite 900N
Chicago, IL 60631-3512
866-392-4086
847-653-4528 (Fax)

New England Regional Office

1601 Trapelo Road, Suite 12
Waltham, MA 02451-7333
866-392-4089
781-663-2743 (Fax)

Southern Regional Office

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Duluth, GA 30096-7155
866-392-4088
770-225-4062 (Fax)

Southwestern Regional Office

4330 Gaines Ranch Loop, Suite 200
Austin, TX 78735-6735
866-392-3017
512-721-1841 (Fax)

Western Regional Office

2099 Gateway Place, Suite 550
San Jose, CA 95110-1051
866-392-4078
408-367-1459 (Fax)

Puerto Rico and Latin America Office

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

International Education Office

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

Washington Office

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

Florida Office

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