



2009 College-Bound Seniors

# State Profile Report

PENNSYLVANIA

## Included in This Report

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**SAT® Data**

**SAT Subject Tests™ Data**

**Demographic and Academic Information**

**College Plans**

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## The SAT® Program

The SAT® (formerly known as the SAT® I: Reasoning Test) assesses student reasoning based on knowledge and skills developed by the students in their course work. The SAT Subject Tests™ (formerly known as SAT II: Subject Tests) are a series of one-hour, mostly multiple-choice tests that measure how much students know about a particular academic subject and how well they can apply that knowledge. Most students also complete the optional SAT Questionnaire (formerly known as the Student Descriptive Questionnaire) when they register to take SAT Program tests, providing valuable contextual information to aid in interpreting and understanding individual and group scores. *College-Bound Seniors 2009* includes students who tested through March 2009.

## Using This Report

*College-Bound Seniors* presents data for high school graduates in the year 2009 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 Web site at [www.collegeboard.com](http://www.collegeboard.com).

### Mean

The *mean* is the arithmetic average.

### Percentile

The *percentile*, also called the *percentile point*, is the point on the measurement scale below which a specified percentage of scores falls. The 25th, 50th, and 75th percentile points are often reported for large data sets. The 50th percentile point is also called the *median* and, like the mean, is an average and a good indicator of the center of the distribution of scores. Comparing the 25th and 75th percentile points gives an idea of the range of scores in the populations reported in this document. Like the standard deviation, the difference between the scores associated with the 75th and 25th percentiles is an indication of the variability of the scores in a particular sample.

### Scaled score

A *scaled score* is a score that has been converted from the raw score (number of questions answered correctly minus a fraction of the incorrect answers) for reporting. The SAT Program uses the 200 to 800 point scale.

### Standard deviation (SD)

The *standard deviation* (SD) is a measure of the variability of a set of scores. If test scores cluster tightly around the mean score, as they do when the group tested is relatively homogeneous, the standard deviation is smaller than it would be with a more diverse group and a greater scatter of scores around the mean.

## The College Board: Inspiring Minds™

The College Board is a not-for-profit membership association whose mission is to connect students to college success and opportunity. Founded in 1900, the association is composed of more than 5,600 schools, colleges, universities, and other educational organizations. Each year, the College Board serves seven million students and their parents, 23,000 high schools, and 3,800 colleges through major programs and services in college admissions, guidance, assessment, financial aid, enrollment and teaching and learning. Among its best-known programs are the SAT®, the PSAT/NMSQT®, and the Advanced Placement Program® (AP®). The College Board is committed to the principles of excellence and equity, and that commitment is embodied in all of its programs, services, activities and concerns.

# Total Group Mean SAT Scores

## College-Bound Seniors, 1972–2009

<u>Year</u>	<u>Critical Reading</u>			<u>Mathematics</u>			<u>Writing</u>		
	<u>Male</u>	<u>Female</u>	<u>Total</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
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	504	502	502	533	499	515	489	500	494
2008	504	500	502	533	500	515	488	501	494
2009	503	498	501	534	499	515	486	499	493

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 2000–2009, all scores are reported on the recentered scale.

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## SAT® Data

Data in this report are for high school graduates in the year 2009. Information is summarized for seniors who took the SAT at any time during their high school years through March 2009. 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 Sub-Scores			
		Mean	SD	Mean	SD	Mean	SD	Multiple Choice		Essay	
								Mean	SD	Mean	SD
Total	105,066	493	106	501	110	483	108	48.5	10.8	7.0	1.6

Table 2: Mean Scores by Gender

SAT	Test-Takers Number	Critical Reading		Mathematics		Writing		Writing Sub-Scores			
		Mean	SD	Mean	SD	Mean	SD	Multiple Choice		Essay	
								Mean	SD	Mean	SD
Male	48,886	497	107	521	113	477	108	48.1	10.7	6.8	1.7
Female	56,180	489	104	485	106	489	107	48.8	10.8	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 Sub-Scores			
		Mean	SD	Mean	SD	Mean	SD	Multiple Choice		Essay	
								Mean	SD	Mean	SD
Senior (2008-2009)	65,189	481	103	487	108	470	105	47.2	10.4	6.8	1.7
Junior (2007-2008)	39,703	513	106	524	111	504	109	50.7	10.9	7.3	1.5
Sophomore (2006-2007)	164	524	143	544	146	512	133	51.2	13.1	7.3	1.9
Freshman (2005-2006)	10	488		534		461		46.9		6.8	
Total	105,066	493	106	501	110	483	108	48.5	10.8	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 Sub-Scores			
		Mean	SD	Mean	SD	Mean	SD	Multiple Choice		Essay	
								Mean	SD	Mean	SD
Total Group	1,530,128	501	112	515	116	493	111	49.3	11.1	7.2	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 2009 cohort took the SAT writing section. The Writing test contains one essay (30% of the total score) and 49 multiple-choice questions (70% of the total score). Essay scores range from 2-12, with a very small percentage of students (less than 0.3%) receiving scores of 0 on the essay, for essays written completely off topic. Multiple-choice scores range from 20 to 80.

## SAT Data

**Table 5: Percentiles for State and Total Group**

A percentile represents the point below which a percentage of scores fall. Comparing the 25th percentile point to the 75th percentile point gives an idea of the range of performance in a group.

SAT Percentile	State			Total Group		
	Critical Reading	Mathematics	Writing	Critical Reading	Mathematics	Writing
75th	560	580	550	580	600	570
50th	490	500	480	500	510	490
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.com/sat-skills](http://www.collegeboard.com/sat-skills).

SAT Score Range	Critical Reading			Mathematics			Writing		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
700–800	1,777	1,759	3,536	2,794	1,349	4,143	1,376	1,768	3,144
600–690	7,176	7,102	14,278	10,186	7,535	17,721	5,628	7,598	13,226
500–590	15,566	17,053	32,619	15,317	15,982	31,299	13,537	16,745	30,282
400–490	16,239	20,162	36,401	14,099	20,193	34,292	17,038	19,276	36,314
300–390	6,647	8,499	15,146	5,402	9,356	14,758	9,409	9,141	18,550
200–290	1,481	1,605	3,086	1,088	1,765	2,853	1,898	1,652	3,550

**Table 7: Type of High School**

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Public	81,144	85	46	54	489	500	478
Religiously Affiliated	11,716	12	50	50	520	512	515
Independent	2,108	2	55	45	535	551	532
Other or Unknown	10,098		43	57	487	491	476

**Table 8: Test-Taking Conditions**

SAT	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
Standard Conditions	102,817	98	494	105	502	110	484	107
Nonstandard Conditions	2,249	2	453	116	456	121	444	115

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	393	0	469	107	476	112	454	106
Asian, Asian American, or Pacific Islander	3,854	4	501	128	569	128	501	133
Black or African American	10,428	10	408	95	403	97	397	93
Mexican or Mexican American	442	0	451	104	460	101	435	105
Puerto Rican	1,628	2	431	96	430	97	419	94
Other Hispanic, Latino, or Latin American	1,770	2	458	106	457	108	445	106
White	81,011	77	508	98	516	101	498	101
Other	1,945	2	475	114	476	115	466	114
No Response	3,595	3	458	128	456	126	441	125
Total	105,066	100	493	106	501	110	483	108

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	201	0	477	109	497	118	451	103
Asian, Asian American, or Pacific Islander	1,929	2	504	127	584	125	495	132
Black or African American	4,497	4	406	97	412	100	387	92
Mexican or Mexican American	196	0	459	112	481	108	431	109
Puerto Rican	667	1	435	98	448	101	414	95
Other Hispanic, Latino, or Latin American	755	1	468	110	482	112	445	109
White	38,002	36	512	99	536	103	491	101
Other	834	1	476	118	495	120	457	117
No Response	1,805	2	458	127	469	130	433	121
Total	48,886	47	497	107	521	113	477	108

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	192	0	461	104	453	101	458	110
Asian, Asian American, or Pacific Islander	1,925	2	499	128	554	129	507	134
Black or African American	5,931	6	410	93	396	93	405	93
Mexican or Mexican American	246	0	444	97	443	91	438	101
Puerto Rican	961	1	428	95	419	92	423	93
Other Hispanic, Latino, or Latin American	1,015	1	450	102	439	101	445	103
White	43,009	41	504	97	499	97	504	99
Other	1,111	1	474	110	461	108	472	111
No Response	1,790	2	459	128	443	121	450	128
Total	56,180	53	489	104	485	106	489	107

## 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	105,066	100	493	106	501	110	483	108
<b>First Language Learned</b>								
English	91,821	90	498	103	504	107	487	105
English and Another	7,032	7	470	108	485	117	462	111
Another Language	3,382	3	457	125	518	138	461	131
No Response	2,831		449	138	455	144	435	139
<b>Citizenship</b>								
U.S. Citizen / U.S. National	98,522	98	496	103	503	108	486	105
U.S. Permanent Resident or Refugee	1,709	2	453	130	501	138	452	135
Citizen of Another Country	636	1	447	119	571	138	463	126
Other, Unknown, or No Response	4,199		440	128	454	137	427	129
<b>Disabling Condition</b>								
Yes	6,396	6	464	111	465	111	446	109
Unknown or No Response	98,670		495	105	504	110	485	107
<b>Plans to Apply for Financial Aid</b>								
Yes	73,508	77	492	102	498	106	481	103
No	4,877	5	524	104	541	110	521	109
Don't Know	16,663	18	506	105	520	110	498	109
<b>Family Income</b>								
\$0 - \$20,000	5,184	7	429	100	434	104	416	99
\$20,000–\$40,000	10,386	15	460	96	466	100	446	96
\$40,000–\$60,000	12,994	18	481	95	486	99	468	96
\$60,000–\$80,000	13,366	19	492	95	500	99	480	96
\$80,000–\$100,000	10,139	14	506	97	515	100	495	98
\$100,000–\$120,000	7,353	10	517	97	528	100	509	99
\$120,000–\$140,000	3,387	5	519	95	533	101	511	97
\$140,000–\$160,000	2,363	3	525	96	540	103	520	98
\$160,000–\$200,000	2,495	4	537	99	547	102	532	104
More than \$200,000	3,269	5	558	99	573	103	558	102
No Response	34,130		495	115	503	119	486	117
<b>Highest Level of Parental Education</b>								
No High School Diploma	1,962	2	410	97	433	111	401	98
High School Diploma	36,273	38	461	92	468	98	449	93
Associate Degree	9,894	10	478	90	486	95	465	91
Bachelor's Degree	27,727	29	514	97	524	103	505	100
Graduate Degree	20,189	21	551	105	557	109	544	108
<b>Took the PSAT/NMSQT®</b>								
Yes, As a Junior	35,073	38	488	99	496	102	478	99
Yes, As a Sophomore or Younger	12,399	14	516	101	527	108	507	104
Yes, As a Junior and As a Sophomore or Younger	22,930	25	535	102	544	107	532	104
No	21,008	23	463	96	469	102	446	96

## 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	14,472	27	42	58	579	599	577
Second Tenth	13,984	26	44	56	515	532	508
Second Fifth	11,763	22	50	50	481	492	469
Final Three Fifths	13,361	25	52	48	439	441	425
No Response	51,486		46	54	480	484	468

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)	6,387	6	38	62	590	607	589
A (93–96)	20,683	21	39	61	549	565	546
A- (90–92)	19,257	19	44	56	519	531	512
B (80–89)	44,131	44	49	51	464	468	451
C (70–79)	9,398	9	57	43	411	410	393
D, E, or F (below 70)	279	0	59	41	390	391	371
No Response	4,931		52	48	458	461	441
<b>Mean Grade Point Average</b>	<b>All Students: 3.37</b>		<b>Male: 3.29</b>		<b>Female: 3.44</b>		

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	2.1	3.63	3.81	3.73
English and Language Arts	3.9	3.9	3.9	3.28	3.50	3.40
Foreign and Classical Languages	2.7	2.9	2.8	3.16	3.42	3.30
Mathematics	3.9	3.9	3.9	3.21	3.22	3.21
Natural Sciences	3.7	3.7	3.7	3.26	3.31	3.29
Social Sciences and History	3.8	3.8	3.8	3.42	3.45	3.44
<b>Total for All Subjects</b>	<b>19.9</b>	<b>20.6</b>	<b>20.2</b>			

## Academic Information

### Course-Taking Patterns

Table 16: English, Mathematics

<b>English and Language Arts</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	3,551	4	43	57	516	520	508	
4 Years	75,435	82	46	54	503	512	493	
3 Years	11,479	13	44	56	462	470	452	
2 Years	816	1	47	53	456	473	445	
1 Year	175	0	51	49	405	420	396	
1/2 Year or Less	156	0	55	45	415	425	401	
No Response	13,454		50	50	462	470	451	
<b>Course Work or Experience</b>								
English/Language Arts	82,257	95	45	55	498	506	489	
Journalism	10,025	12	39	61	498	491	490	
Creative Writing	24,292	28	41	59	494	490	485	
American Literature	52,845	61	45	55	504	509	494	
Composition/Writing	36,793	43	44	56	498	501	489	
British Literature	26,777	31	45	55	518	519	507	
World Literature	30,440	35	46	54	507	511	497	
Communications	12,287	14	43	57	487	493	477	
Public Speaking	22,398	26	43	57	502	505	493	
English As Second Language	2,577	3	42	58	430	475	428	
AP®/Honors Courses	29,494	32	39	61	567	569	561	

<b>Mathematics</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	9,520	10	48	52	522	559	514	
4 Years	63,758	69	47	53	503	511	494	
3 Years	17,374	19	42	58	468	462	456	
2 Years	826	1	46	54	453	461	442	
1 Year	170	0	52	48	420	420	403	
1/2 Year or Less	168	0	48	52	410	399	391	
No Response	13,250		50	50	462	470	450	
<b>Highest Level of Mathematics Achieved*</b>								
Calculus	25,705	28	50	50	560	595	556	
Pre-calculus	20,788	23	44	56	507	518	498	
Trigonometry	14,317	16	45	55	479	480	466	
Algebra II	24,228	27	43	57	450	438	436	
Algebra I	3,743	4	46	54	417	394	401	
AP/Honors Courses	26,187	29	48	52	566	598	562	

\*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.

## 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	7,557	8	45	55	537	564	529	
4 Years	54,197	60	47	53	507	517	498	
3 Years	25,151	28	44	56	474	475	463	
2 Years	2,409	3	47	53	458	463	445	
1 Year	928	1	44	56	448	452	433	
1/2 Year or Less	661	1	40	60	414	419	404	
No Response	14,163		50	50	462	470	450	
<b>Course Work or Experience</b>								
Biology	86,788	98	45	55	499	507	489	
Chemistry	80,801	91	45	55	503	513	494	
Physics	50,402	57	49	51	519	537	511	
Geology, Earth, or Space Science	48,728	55	46	54	483	488	472	
Other Sciences	33,658	38	41	59	493	498	483	
AP/Honors Courses	25,696	28	45	55	569	589	564	

Social Sciences and History	Test-Takers		Percent by Gender		SAT Mean Scores			
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	4,836	5	47	53	531	537	519	
4 Years	63,599	70	47	53	506	515	496	
3 Years	20,032	22	44	56	472	480	463	
2 Years	1,918	2	46	54	447	462	439	
1 Year	489	1	44	56	418	429	408	
1/2 Year or Less	320	0	46	54	405	414	394	
No Response	13,872		50	50	461	469	449	
<b>Course Work or Experience</b>								
U.S. History	78,264	89	46	54	502	510	492	
World History or Cultures	74,794	85	45	55	498	506	489	
U.S. Government or Civics	56,063	64	45	55	499	506	488	
Economics	29,086	33	46	54	499	510	488	
Geography	15,086	17	47	53	482	487	470	
Psychology	27,594	31	36	64	507	507	498	
European History	28,672	33	49	51	525	531	514	
Sociology	15,288	17	37	63	497	496	485	
Ancient History	14,245	16	49	51	503	505	492	
Other Courses	16,840	19	43	57	492	498	481	
AP/Honors Courses	28,385	31	45	55	568	575	561	

## 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	3,966	4	39	61	563	569	561
4 Years	24,687	27	40	60	544	551	541
3 Years	26,466	29	45	55	503	514	494
2 Years	27,829	31	50	50	467	475	452
1 Year	4,477	5	51	49	435	438	413
1/2 Year or Less	3,746	4	57	43	405	414	384
No Response	13,895		51	49	459	468	448
<b>Course Work or Experience</b>							
Chinese	863	1	48	52	516	551	511
French	16,773	19	36	64	513	513	503
German	9,521	11	57	43	519	528	501
Greek	243	0	55	45	548	538	532
Hebrew	248	0	45	55	551	551	557
Italian	1,446	2	42	58	505	502	499
Japanese	619	1	50	50	528	538	509
Korean	117	0	38	62	467	568	476
Latin	6,548	7	49	51	555	556	544
Russian	284	0	44	56	489	498	483
Spanish	59,371	67	45	55	493	501	485
Other Languages	880	1	39	61	469	474	467
AP/Honors Courses	15,511	17	40	60	578	589	579

## Academic Information

### Course-Taking Patterns

Table 19: 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	4,115	5	35	65	518	517	509	
4 Years	20,822	23	37	63	521	520	513	
3 Years	12,021	14	38	62	493	496	485	
2 Years	16,099	18	46	54	488	497	478	
1 Year	14,653	16	51	49	492	505	482	
1/2 Year or Less	21,213	24	57	43	485	503	473	
No Response	16,143		52	48	467	477	456	
<b>Course Work or Experience</b>								
Acting or Play Production	14,016	17	32	68	535	521	526	
Art History or Appreciation	14,626	18	38	62	505	499	495	
Dance	7,872	10	10	90	493	487	493	
Drama: Study or Appreciation	8,933	11	29	71	516	501	509	
Music: Study or Appreciation	14,059	17	46	54	522	517	513	
Music Performance	29,962	37	38	62	522	523	514	
Photography or Film	14,972	18	36	64	504	504	496	
Studio Art and Design	16,085	20	34	66	512	512	504	
None	22,155	27	59	41	476	496	463	
AP/Honors Courses	4,416	5	36	64	574	571	570	

<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	Writing
Computer Literacy	57,637	69	46	54	503	511	493
Computer Programming	15,615	19	58	42	495	512	482
Word Processing	62,279	74	45	55	503	510	492
Internet Activity	44,094	53	47	53	504	511	494
Using Computer Graphics	27,780	33	51	49	503	514	492
Creating Spreadsheets/Databases	32,276	39	47	53	507	519	498
None	7,429	9	39	61	493	500	486

## 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
9,361	23,337	9,055	630	648	629

  

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	842	9
2	4,099	44
3	3,598	38
4 or More	822	9

Table 21: Mean Scores for SAT Subject Tests 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	3,470	622	101	3,314	647	94	620	91	642	94
<b>History and Social Studies</b>										
U.S. History	3,300	638	105	3,192	652	90	642	92	646	91
World History	327	617	116	312	657	105	625	100	638	105
<b>Mathematics</b>										
Mathematics Level 1	4,252	616	95	4,067	612	94	634	88	615	96
Mathematics Level 2	4,191	676	89	4,098	640	93	692	73	643	91
<b>Science</b>										
Biology-E	912	615	102	864	629	99	636	97	624	96
Biology-M	1,451	658	90	1,412	651	85	671	78	652	81
Chemistry	2,162	640	98	2,109	639	92	688	78	643	90
Physics	1,261	644	88	1,243	638	91	698	71	634	89
<b>Foreign and Classical Languages</b>										
Chinese/Listening	112	756	78	110	575	138	690	88	585	137
French	423	595	110	414	651	86	646	84	660	83
French/Listening	101	613	108	100	649	85	636	80	659	76
German	56	548	92	56	676	61	683	57	682	75
German/Listening	68	550	117	68	655	80	633	82	648	80
Modern Hebrew	13	612		13	629		640		700	
Italian	23	680		23	670		621		659	
Japanese/Listening	16	701		16	604		697		602	
Korean/Listening	73	774	42	72	562	103	679	78	590	105
Latin	194	620	100	192	682	74	681	68	680	73
Spanish	744	593	114	735	636	91	632	88	648	89
Spanish/Listening	188	602	117	187	609	115	602	110	619	124

## 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	332	10	516	16	46	14
700-740	572	16	626	19	56	17
650-690	754	22	648	20	45	14
600-640	592	17	529	16	39	12
550-590	495	14	362	11	51	16
500-540	302	9	266	8	36	11
450-490	186	5	161	5	28	9
400-440	130	4	104	3	13	4
350-390	81	2	60	2	11	3
300-340	24	1	25	1	1	0
250-290	2	0	3	0	1	0
200-240						
Total	3,470		3,300		327	
Mean	622		638		617	
SD	101		105		116	
75th percentile	700		720		710	
50th percentile	640		650		620	
25th percentile	560		580		530	

Table 23: Mathematics, Science

SAT Subject Tests	Mathematics				Science							
	Mathematics Level 1		Mathematics Level 2		Biology-E		Biology-M		Chemistry		Physics	
	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct
750-800	213	5	1,145	27	86	9	266	18	358	17	176	14
700-740	702	17	668	16	142	16	284	20	338	16	193	15
650-690	908	21	872	21	146	16	313	22	364	17	284	23
600-640	974	23	767	18	170	19	230	16	419	19	252	20
550-590	576	14	426	10	154	17	188	13	292	14	181	14
500-540	393	9	181	4	98	11	101	7	204	9	101	8
450-490	209	5	80	2	66	7	44	3	111	5	53	4
400-440	157	4	31	1	24	3	16	1	58	3	19	2
350-390	82	2	13	0	12	1	7	0	17	1	2	0
300-340	33	1	8	0	13	1	2	0	1	0		
250-290	5	0			1	0						
200-240												
Total	4,252		4,191		912		1,451		2,162		1,261	
Mean	616		676		615		658		640		644	
SD	95		89		102		90		98		88	
75th percentile	690		750		690		730		710		710	
50th percentile	630		680		620		670		640		650	
25th percentile	560		620		550		600		580		580	

## SAT Subject Tests Score Distributions

Table 24: Foreign and Classical Languages

SAT Subject Tests	Foreign and Classical Languages											
	Chinese/Listening		French		French/Listening		German		German/Listening		Modern Hebrew	
	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct
750-800	88	79	44	10	18	18	3	5	7	10	2	15
700-740	9	8	41	10	5	5	1	2	4	6	2	15
650-690	2	2	67	16	18	18	4	7	6	9	2	15
600-640	4	4	62	15	15	15	7	13	7	10		
550-590	5	4	52	12	13	13	8	14	7	10	2	15
500-540	2	2	73	17	17	17	15	27	11	16	1	8
450-490	2	2	38	9	9	9	13	23	10	15	3	23
400-440			39	9	4	4	3	5	12	18	1	8
350-390			7	2	2	2	2	4	3	4		
300-340									1	1		
250-290												
200-240												
Total	112		423		101		56		68		13	
Mean	756		595		613		548		550		612	
SD	78		110		108		92		117			
75th percentile	800		680		680		610		630			
50th percentile	790		600		600		540		520			
25th percentile	760		510		530		480		450			

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	10	43	8	50	60	82	20	10	63	8	27	14
700-740	2	9	2	13	7	10	33	17	98	13	14	7
650-690	4	17	2	13	3	4	32	16	94	13	35	19
600-640	3	13	1	6	3	4	27	14	121	16	24	13
550-590	1	4	1	6			34	18	133	18	26	14
500-540			1	6			21	11	84	11	28	15
450-490	2	9					21	11	60	8	15	8
400-440	1	4	1	6			5	3	50	7	7	4
350-390							1	1	27	4	9	5
300-340									12	2	3	2
250-290									2	0		
200-240												
Total	23		16		73		194		744		188	
Mean	680		701		774		620		593		602	
SD					42		100		114		117	
75th percentile	780				800		700		680		690	
50th percentile	690				790		620		600		610	
25th percentile	600				770		540		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	560	1	477	481	459
Architecture and Related Services	1,509	2	489	528	479
Area, Ethnic, Cultural and Gender Studies	51	0	567	522	565
Biological and Biomedical Sciences	3,766	5	535	543	524
Business Management, Marketing, and Related Support Services	9,556	12	480	504	473
Communication, Journalism and Related Programs	2,994	4	514	493	510
Computer and Information Sciences and Support Services	2,302	3	503	524	473
Construction Trades	173	0	418	452	392
Education	8,554	11	477	482	473
Engineering	5,071	7	528	583	512
Engineering Technologies/Technicians	841	1	463	503	440
English Language and Literature/Letters	1,088	1	586	518	565
Family and Consumer Sciences/Human Sciences	226	0	457	460	452
Foreign Languages, Literatures, and Linguistics	599	1	578	545	570
Health Professions and Related Clinical Services	15,328	20	482	491	479
History	1,185	2	536	509	505
Legal Professions and Studies	1,965	3	504	499	493
Liberal Arts and Sciences, General Studies, and Humanities	781	1	539	518	527
Library Science/Librarianship	41	0	553	499	531
Mathematics and Statistics	756	1	529	607	525
Mechanic and Repair Technologies/Technician	237	0	422	446	399
Military Sciences	144	0	515	525	483
Multi/Interdisciplinary Studies	119	0	593	586	586
Natural Resources and Conservation	465	1	500	502	481
Parks, Recreation, Leisure and Fitness Studies	532	1	450	474	435
Personal and Culinary Services	352	0	446	450	433
Philosophy and Religious Studies	165	0	565	530	540
Physical Sciences	1,153	2	545	575	528
Precision Production	15	0	469	507	434
Psychology	3,600	5	495	477	486
Public Administration and Social Services Professions	232	0	469	455	457
Security and Protective Services	1,599	2	451	457	435
Social Sciences	1,201	2	559	533	541
Theology and Religious Vocations	180	0	524	502	498
Transportation and Materials Moving	36	0	500	510	474
Visual and Performing Arts	5,356	7	510	492	499
Other	997	1	467	470	457
Undecided	2,943	4	519	533	511
<b>Degree-Level Goal</b>					
Certificate Program	972	1	435	444	418
Associate Degree	1,684	2	419	424	405
Bachelor's Degree	30,618	32	472	480	461
Master's Degree	24,653	26	507	517	499
Doctoral or Related Degree	14,201	15	535	544	529
Other	422	0	440	441	431
Undecided	22,138	23	505	512	493

## College Plans

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

Of the 105,372 students from your state who took the SAT and/or an SAT Subject Test, 77,438 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 2,642 institutions received score reports from your students.

<b>Institution</b>	<b>State</b>	<b>Type</b>	<b>Number of Students</b>	<b>Percent of Score Senders*</b>
PENNSYLVANIA STATE UNIVERSITY	PA	Public	33,678	43.5
UNIVERSITY OF PITTSBURGH PITTSBURGH	PA	Private	15,365	19.8
TEMPLE UNIVERSITY	PA	Private	12,975	16.8
WEST CHESTER UNIVERSITY OF PENNSYLVANIA	PA	Public	9,431	12.2
DREXEL UNIVERSITY	PA	Private	8,965	11.6
BLOOMSBURG UNIVERSITY OF PENNSYLVANIA	PA	Public	7,912	10.2
INDIANA UNIVERSITY OF PENNSYLVANIA	PA	Public	7,292	9.4
NCAA ELIGIBILITY CENTER	IN	Public	5,957	7.7
MILLERSVILLE UNIVERSITY OF PENNSYLVANIA	PA	Public	5,760	7.4
KUTZTOWN UNIVERSITY OF PENNSYLVANIA	PA	Public	5,745	7.4
SHIPPENSBURG UNIVERSITY OF PENNSYLVANIA	PA	Public	5,425	7.0
SLIPPERY ROCK UNIVERSITY OF PENNSYLVANIA	PA	Public	4,816	6.2
DUQUESNE UNIVERSITY	PA	Private	4,518	5.8
UNIVERSITY OF DELAWARE	DE	Public	4,145	5.4
VILLANOVA UNIVERSITY	PA	Private	4,121	5.3
UNIVERSITY OF PENNSYLVANIA UNDERGRADUATE	PA	Private	3,894	5.0
EAST STROUDSBURG UNIVERSITY OF PENNSYLVANIA	PA	Public	3,804	4.9
CALIFORNIA UNIVERSITY OF PENNSYLVANIA	PA	Public	3,435	4.4
LOCK HAVEN UNIVERSITY OF PENNSYLVANIA	PA	Public	3,134	4.0
WEST VIRGINIA UNIVERSITY MORGANTOWN	WV	Public	3,028	3.9
LEHIGH UNIVERSITY	PA	Private	2,986	3.9
CLARION UNIVERSITY OF PENNSYLVANIA	PA	Public	2,764	3.6
CARNEGIE MELLON UNIVERSITY	PA	Private	2,742	3.5
SAINT JOSEPHS UNIVERSITY	PA	Private	2,532	3.3
UNIVERSITY OF MARYLAND COLLEGE PARK	MD	Public	2,495	3.2
YORK COLLEGE OF PENNSYLVANIA	PA	Private	2,494	3.2
CORNELL UNIVERSITY	NY	Private	2,477	3.2
EDINBORO UNIVERSITY OF PENNSYLVANIA	PA	Public	2,462	3.2
NEW YORK UNIVERSITY	NY	Private	2,423	3.1
BUCKNELL UNIVERSITY	PA	Private	2,312	3.0
LA SALLE UNIVERSITY	PA	Private	2,223	2.9
BOSTON UNIVERSITY	MA	Private	2,121	2.7
UNIVERSITY OF SCRANTON	PA	Private	2,105	2.7
ROBERT MORRIS UNIVERSITY	PA	Private	2,092	2.7
JOHNS HOPKINS UNIVERSITY CENTER FOR TALE	MD	Private	1,980	2.6
PRINCETON UNIVERSITY	NJ	Private	1,755	2.3
ARCADIA UNIVERSITY	PA	Private	1,736	2.2
UNIVERSITY OF PITTSBURGH JOHNSTOWN	PA	Private	1,730	2.2
SYRACUSE UNIVERSITY	NY	Private	1,725	2.2
WIDENER UNIVERSITY	PA	Private	1,638	2.1
GANNON UNIVERSITY	PA	Private	1,613	2.1
WILKES UNIVERSITY	PA	Private	1,550	2.0
RUTGERS UNIVERSITY	NJ	Public	1,507	1.9
UNIVERSITY OF VIRGINIA	VA	Public	1,496	1.9
OHIO STATE UNIVERSITY COLUMBUS	OH	Public	1,492	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



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866-392-3019  
610-227-2580 (Fax)

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Austin, TX 78735-6735  
866-392-3017  
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## Western Regional Office

2099 Gateway Place, Suite 550  
San Jose, CA 95110-1051  
866-392-4078  
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## 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  
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## Washington Office

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850-521-4921 (Fax)

## New York State Office

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