

SAT[®]

2016 College-Bound Seniors

State Profile Report



ARIZONA

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	18,621	528	103	532	105	505	101	51.1	10.3	7.0	1.5

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	8,199	533	105	553	107	501	103	50.9	10.5	6.8	1.5
Female	10,422	524	101	515	100	509	99	51.2	10.2	7.2	1.4

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)	10,441	515	98	516	99	490	94	49.5	9.7	6.9	1.5
Junior (2014-2015)	8,135	545	107	552	108	525	106	53.1	10.8	7.2	1.4
Sophomore (2013-2014)	44	521	101	536	109	514	83	51.9	8.9	7.2	1.2
Freshman (2012-2013)	1										
Total	18,621	528	103	532	105	505	101	51.1	10.3	7.0	1.5

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	600	570	570	590	560
50th	520	530	500	490	500	480
25th	460	460	440	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	555	573	1,128	785	438	1,223	338	406	744
600-690	1,719	1,938	3,657	2,084	1,762	3,846	1,125	1,580	2,705
500-590	2,842	3,667	6,509	2,825	3,679	6,504	2,568	3,500	6,068
400-490	2,359	3,293	5,652	1,950	3,415	5,365	2,951	3,706	6,657
300-390	638	854	1,492	504	1,026	1,530	1,113	1,140	2,253
200-290	86	97	183	51	102	153	104	90	194

Table 7: Type of High School

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Public	16,491	90	44	56	525	531	502
Religiously Affiliated	1,565	9	49	51	542	538	523
Independent	242	1	48	52	576	583	563
Other or Unknown	323		41	59	562	524	525

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

Demographic Information

SAT: Mean Scores by Gender Within Ethnicity

Table 8: Total Mean Scores by Ethnicity

SAT Test-Takers Who Described Themselves As:	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
American Indian or Alaska Native	206	1	483	95	493	92	453	88
Asian or Asian American	1,470	8	558	116	601	115	548	124
Black or African American	915	5	480	99	472	100	455	94
Native Hawaiian or Pacific Islander	21	0	511		495		484	
Hispanic, Latino, or Latin American	4,992	27	487	95	490	96	466	89
White	10,015	54	548	97	549	97	523	94
Two or More Races, non-Hispanic	395	2	537	100	530	99	503	91
Other	167	1	540	115	541	106	524	112
No Response	440	2	536	109	527	108	509	109
Total	18,621	100	528	103	532	105	505	101

Table 9: Male Mean Scores by Ethnicity

SAT Test-Takers Who Described Themselves As:	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
American Indian or Alaska Native	92	0	504	98	519	93	468	92
Asian or Asian American	706	4	560	118	622	113	546	127
Black or African American	407	2	476	100	476	109	441	96
Native Hawaiian or Pacific Islander	6	0	553		543		490	
Hispanic, Latino, or Latin American	2,055	11	495	97	512	98	464	91
White	4,486	24	551	100	570	99	517	96
Two or More Races, non-Hispanic	165	1	531	100	545	103	492	94
Other	76	0	525	117	531	112	491	107
No Response	206	1	534	114	538	108	499	113
Total	8,199	44	533	105	553	107	501	103

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	114	1	465	88	473	86	441	83
Asian or Asian American	764	4	557	114	582	114	549	120
Black or African American	508	3	483	98	468	92	467	90
Native Hawaiian or Pacific Islander	15	0	494		475		481	
Hispanic, Latino, or Latin American	2,937	16	482	94	474	91	468	88
White	5,529	30	546	94	532	93	529	93
Two or More Races, non-Hispanic	230	1	540	100	520	96	510	88
Other	91	0	553	111	550	101	552	109
No Response	234	1	539	104	517	108	518	104
Total	10,422	56	524	101	515	100	509	99

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	18,621	100	528	103	532	105	505	101
First Language Learned								
English	14,211	77	537	100	537	101	511	97
English and Another	2,634	14	505	109	516	116	489	109
Another Language	1,657	9	486	106	513	111	475	105
No Response	119		537	114	533	121	514	104
Citizenship								
U.S. Citizen / U.S. National	17,751	96	530	102	532	104	506	100
U.S. Permanent Resident or Refugee	438	2	500	114	526	125	488	116
Citizen of Another Country	269	1	482	117	557	123	480	116
Other, Unknown, or No Response	163		470	104	486	106	462	99
Plans to Apply for Financial Aid								
Yes	13,075	77	526	102	527	103	502	99
No	1,180	7	538	97	549	101	518	97
Don't Know	2,828	17	534	106	544	108	514	105
No Response	1,538		529	106	538	110	506	105
Family Income								
Less than \$20,000	1,091	8	472	98	475	97	453	91
About \$20,000 to \$40,000	2,114	16	496	95	498	96	472	91
About \$40,001 to \$60,000	1,845	14	514	95	514	96	488	90
About \$60,001 to \$80,000	1,831	14	524	96	524	95	497	93
About \$80,001 to \$100,000	1,869	14	538	97	542	100	511	95
About \$100,001 to \$140,000	2,282	17	543	96	549	99	520	95
About \$140,001 to \$200,000	1,328	10	552	98	556	99	529	96
More than \$200,000	1,116	8	572	100	583	101	555	102
No Response	5,145		533	109	538	112	513	107
Highest Level of Parental Education								
No High School Diploma	951	5	457	89	469	91	439	82
High School Diploma	4,644	26	495	93	497	96	472	87
Associate Degree	1,338	7	504	93	504	93	479	88
Bachelor's Degree	6,158	34	540	96	543	98	516	94
Graduate Degree	4,850	27	568	103	573	105	547	105
No Response	680		500	119	511	120	480	116
Took the PSAT/NMSQT®								
Yes, As a Junior	4,083	31	542	100	548	100	522	97
Yes, As a Sophomore or Younger	2,340	18	530	96	539	99	510	96
Yes, As a Junior and As a Sophomore or Younger	4,297	33	580	100	588	102	561	100
No	2,257	17	491	93	498	94	468	88
No Response	5,644		492	94	487	92	463	85

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	4,080	42	40	60	584	599	565
Second Tenth	2,767	28	45	55	529	538	503
Second Fifth	1,592	16	49	51	499	504	474
Final Three Fifths	1,357	14	49	51	464	462	441
No Response	8,825		44	56	517	515	494

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)	1,515	8	38	62	603	610	585
A (93–96)	4,395	25	38	62	569	579	551
A- (90–92)	4,008	22	41	59	536	543	514
B (80–89)	6,878	39	48	52	494	494	469
C (70–79)	1,047	6	59	41	454	450	424
D, E, or F (below 70)	17	0	76	24	478	451	426
No Response	761		49	51	508	501	479
Mean Grade Point Average	All Students: 3.49		Male: 3.41		Female: 3.56		

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	1.9	2.4	2.2	3.83	3.93	3.89
English and Language Arts	3.8	3.9	3.8	3.42	3.63	3.54
Foreign and Classical Languages	2.6	2.7	2.6	3.46	3.64	3.56
Mathematics	4.0	4.0	4.0	3.30	3.32	3.31
Natural Sciences	3.5	3.5	3.5	3.42	3.46	3.44
Social Sciences and History	3.3	3.3	3.3	3.54	3.60	3.58
Total for All Subjects	19.1	19.8	19.4			

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	Writing
More Than 4 Years	1,292	8	40	60	552	558	535	
4 Years	12,626	78	43	57	538	540	514	
3 Years	1,421	9	43	57	493	499	474	
2 Years	280	2	51	49	494	512	475	
1 Year	187	1	45	55	480	494	464	
1/2 Year or Less	348	2	48	52	441	462	425	
No Response	2,467		49	51	505	511	481	
AP [®] /Honors Courses	9,164	57	39	61	567	567	545	
Course Work or Experience								
English/Language Arts	16,190	98	43	57	529	532	506	
Journalism	1,042	6	30	70	527	512	512	
Creative Writing	2,201	13	38	62	531	521	508	
American Literature	7,598	46	42	58	542	543	520	
Composition/Writing	6,886	42	42	58	543	543	521	
British Literature	1,957	12	43	57	552	545	527	
World Literature	3,090	19	44	56	546	544	522	
Communications	699	4	43	57	516	520	495	
Public Speaking	1,443	9	41	59	539	533	517	
English As Second Language	359	2	45	55	463	516	457	
Mathematics								
Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing	
More Than 4 Years	4,007	24	46	54	571	592	548	
4 Years	10,718	63	43	57	526	523	502	
3 Years	1,337	8	43	57	487	488	466	
2 Years	282	2	46	54	498	512	478	
1 Year	186	1	52	48	481	500	463	
1/2 Year or Less	488	3	42	58	441	444	428	
No Response	1,603		47	53	505	510	482	
AP/Honors Courses	9,400	55	45	55	565	581	543	
Highest Level of Mathematics Achieved*								
Calculus	6,366	37	49	51	582	606	561	
Pre-calculus	5,882	34	41	59	515	513	490	
Geometry	4,671	27	40	60	476	460	454	
Algebra II	169	1	43	57	490	469	464	
Algebra I	25	0	48	52	425	416	399	

*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	1,511	9	45	55	575	590	556	
4 Years	6,830	43	45	55	553	557	528	
3 Years	6,556	41	41	59	508	507	486	
2 Years	544	3	47	53	502	504	477	
1 Year	198	1	42	58	484	499	461	
1/2 Year or Less	386	2	40	60	448	461	436	
No Response	2,596		49	51	506	512	482	
AP/Honors Courses	7,791	49	43	57	573	582	550	
Course Work or Experience								
Biology	16,525	98	43	57	529	532	506	
Chemistry	15,085	90	43	57	534	539	511	
Physics	9,043	54	50	50	554	568	531	
Geology, Earth, or Space Science	4,896	29	44	56	505	497	481	
Other Sciences	6,986	42	37	63	515	513	492	

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	887	6	44	56	565	570	546	
4 Years	5,268	33	45	55	553	550	529	
3 Years	7,808	49	41	59	525	530	502	
2 Years	1,244	8	46	54	496	507	477	
1 Year	234	1	47	53	490	502	469	
1/2 Year or Less	356	2	43	57	447	461	434	
No Response	2,824		49	51	506	513	482	
AP/Honors Courses	7,353	47	41	59	575	577	552	
Course Work or Experience								
U.S. History	16,242	97	43	57	529	533	506	
World History or Cultures	14,829	89	43	57	528	531	504	
U.S. Government or Civics	14,016	84	43	57	533	536	510	
Economics	11,805	71	42	58	533	537	510	
Geography	3,262	20	43	57	527	529	505	
Psychology	4,051	24	33	67	551	545	529	
European History	2,299	14	49	51	579	575	557	
Sociology	1,185	7	34	66	524	515	498	
Ancient History	1,132	7	45	55	547	542	524	
Other Courses	1,534	9	42	58	540	539	516	

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	916	6	39	61	583	591	568
4 Years	2,805	18	41	59	582	582	565
3 Years	3,387	21	42	58	549	555	529
2 Years	7,571	47	45	55	510	512	483
1 Year	716	4	44	56	485	487	461
1/2 Year or Less	544	3	48	52	458	468	437
No Response	2,682		49	51	505	510	481
AP/Honors Courses	4,327	27	40	60	582	588	565
Course Work or Experience							
Chinese	493	3	52	48	553	575	534
French	2,318	14	31	69	541	531	519
German	537	3	57	43	561	557	524
Greek	123	1	52	48	627	623	615
Hebrew	32	0	44	56	574	561	554
Italian	36	0	47	53	491	513	476
Japanese	197	1	46	54	549	539	511
Korean	20	0	35	65	531	553	519
Latin	504	3	50	50	597	586	571
Russian	47	0	55	45	533	532	515
Spanish	12,897	77	44	56	523	528	501
Other Languages	585	4	31	69	499	502	471

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	731	7	31	69	552	549	529
4 Years	1,794	18	33	67	548	537	523
3 Years	1,270	13	32	68	529	521	503
2 Years	2,065	21	39	61	519	520	495
1 Year	3,134	31	53	47	520	528	494
1/2 Year or Less	988	10	50	50	483	490	462
No Response	8,639		46	54	532	540	511
AP/Honors Courses	1,083	11	39	61	563	561	541
Course Work or Experience							
Acting or Play Production	3,057	19	33	67	560	543	535
Art History or Appreciation	2,574	16	41	59	537	534	515
Dance	2,890	18	9	91	515	509	500
Drama: Study or Appreciation	2,945	19	32	68	543	530	520
Music: Study or Appreciation	2,053	13	43	57	567	558	543
Music Performance	6,385	40	41	59	553	550	529
Photography or Film	3,976	25	37	63	528	523	506
Studio Art and Design	4,158	26	38	62	541	540	520
None	1,782	11	61	39	498	514	472

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
1,871	4,730	1,505	650	669	640

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	182	10
2	788	42
3	705	38
4 or More	196	10

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			N	SAT						
	N	Mean	SD		Mean	SD	Mean	SD	Mean	SD	
English											
Literature	621	587	125	420	649	104	636	101	640	106	
History and Social Studies											
U.S. History	611	619	127	469	668	89	667	95	658	96	
World History	71	612	96	62	679	77	662	89	675	78	
Mathematics											
Mathematics Level 1	558	565	124	335	598	105	622	106	592	110	
Mathematics Level 2	1,175	689	97	1,031	666	89	701	71	658	91	
Science											
Biology-E	280	606	120	217	646	96	653	98	637	104	
Biology-M	331	671	99	295	678	82	696	78	673	88	
Chemistry	449	668	102	399	673	86	706	72	666	89	
Physics	363	669	91	322	668	86	709	73	656	94	
Foreign and Classical Languages											
Chinese/Listening	17	785		17	629		692		630		
French	35	579	128	35	676	89	638	69	667	74	
French/Listening	11	644		11	680		688		686		
German	4			3							
German/Listening	2			2							
Modern Hebrew	1			1							
Italian											
Japanese/Listening	3			3							
Korean/Listening	9	754		9	591		688		634		
Latin	35	651	103	35	693	70	675	70	660	79	
Spanish	140	637	113	103	641	98	635	92	630	102	
Spanish/Listening	14	588		13	583		601		587		

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	53	9	107	18	8	11
700-740	95	15	102	17	6	8
650-690	101	16	95	16	14	20
600-640	81	13	87	14	10	14
550-590	52	8	56	9	16	23
500-540	53	9	47	8	7	10
450-490	77	12	36	6	7	10
400-440	71	11	31	5	3	4
350-390	31	5	41	7		
300-340	6	1	9	1		
250-290	1	0				
200-240						
Total	621		611		71	
Mean	587		619		612	
SD	125		127		96	
75th percentile	690		720		680	
50th percentile	610		640		600	
25th percentile	480		530		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	32	6	447	38	31	11	84	25	126	28	97	27
700-740	75	13	174	15	50	18	77	23	84	19	58	16
650-690	71	13	184	16	48	17	54	16	83	18	66	18
600-640	71	13	161	14	37	13	46	14	59	13	58	16
550-590	48	9	119	10	34	12	28	8	39	9	51	14
500-540	74	13	42	4	27	10	23	7	20	4	17	5
450-490	68	12	29	2	19	7	9	3	20	4	11	3
400-440	66	12	10	1	14	5	7	2	14	3	4	1
350-390	44	8	5	0	12	4	2	1	4	1	1	0
300-340	8	1	4	0	8	3	1	0				
250-290	1	0										
200-240												
Total	558		1,175		280		331		449		363	
Mean	565		689		606		671		668		669	
SD	124		97		120		99		102		91	
75th percentile	670		780		700		750		750		750	
50th percentile	560		710		630		690		690		670	
25th percentile	460		620		520		600		610		600	

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	15	88	5	14	4	36			2	100		
700-740	1	6	3	9			2	50				
650-690	1	6	4	11	3	27						
600-640			3	9			1	25				
550-590			5	14								
500-540			5	14	2	18	1	25				
450-490			2	6	2	18						
400-440			6	17								
350-390			2	6								
300-340											1	100
250-290												
200-240												
Total	17		35		11		4		2		1	
Mean	785		579		644							
SD			128									
75th percentile			680									
50th percentile			560									
25th percentile			440									

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					7	78	8	23	31	22	1	7
700-740			1	33			6	17	21	15	2	14
650-690					1	11	5	14	18	13	2	14
600-640							2	6	16	11	1	7
550-590					1	11	7	20	18	13	4	29
500-540							5	14	18	13		
450-490			1	33			2	6	11	8	3	21
400-440			1	33					5	4		
350-390									2	1	1	7
300-340												
250-290												
200-240												
Total			3		9		35		140		14	
Mean					754		651		637		588	
SD							103		113			
75th percentile							730		740			
50th percentile							650		640			
25th percentile							560		540			

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	140	1	515	507	490
Architecture and Related Services	161	1	513	528	490
Area, Ethnic, Cultural and Gender Studies	12	0	595	553	586
Biological and Biomedical Sciences	1,305	8	556	553	533
Business Management, Marketing, and Related Support Services	1,899	12	515	528	495
Communication, Journalism and Related Programs	393	2	525	501	513
Computer and Information Sciences and Support Services	568	4	557	575	517
Construction Trades	4	0			
Education	466	3	509	499	492
Engineering	2,007	12	559	595	528
Engineering Technologies/Technicians	188	1	516	546	487
English Language and Literature/Letters	171	1	576	522	556
Family and Consumer Sciences/Human Sciences	34	0	496	500	474
Foreign Languages, Literatures, and Linguistics	99	1	581	551	552
Health Professions and Related Clinical Services	3,459	21	509	514	493
History	78	0	577	537	540
Legal Professions and Studies	390	2	538	521	511
Liberal Arts and Sciences, General Studies, and Humanities	119	1	550	521	530
Library Science And Administration	5	0	658	528	556
Mathematics and Statistics	140	1	587	651	570
Mechanic and Repair Technologies/Technician	24	0	449	468	426
Military Technologies And Applied Sciences	72	0	530	544	489
Multi/Interdisciplinary Studies	148	1	579	573	559
Natural Resources and Conservation	92	1	562	544	527
Parks, Recreation, Leisure and Fitness Studies	62	0	475	493	457
Personal and Culinary Services	26	0	479	493	451
Philosophy and Religious Studies	45	0	572	553	527
Physical Sciences	308	2	577	593	541
Precision Production	0	0			
Psychology	808	5	527	506	505
Public Administration and Social Services Professions	40	0	517	481	495
Security and Protective Services	471	3	475	479	455
Social Sciences	309	2	571	546	549
Theology and Religious Vocations	29	0	559	548	538
Transportation and Materials Moving	7	0	543	506	499
Visual and Performing Arts	1,044	6	539	516	516
Other	179	1	483	477	465
Undecided	900	6	566	570	538
Degree-Level Goal					
Certificate Program	48	0	468	467	456
Associate Degree	86	1	446	444	430
Bachelor's Degree	4,658	27	502	505	477
Master's Degree	5,669	33	532	537	509
Doctoral or Related Degree	4,678	27	550	555	530
Other	37	0	466	474	442
Undecided	1,977	12	533	531	508

College Plans

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

Of the 18,987 students from your state who took the SAT and/or an SAT Subject Test, 11,642 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 1,502 institutions received score reports from your students.

Institution	State	Type	Number of Students	Percent of Score Senders*
Arizona State University	AZ	Public	6,284	54.0
University of Arizona	AZ	Public	5,406	46.4
Northern Arizona University	AZ	Public	3,741	32.1
Grand Canyon University	AZ	Private	1,280	11.0
Stanford University	CA	Private	909	7.8
University of Southern California	CA	Private	648	5.6
University of California: Los Angeles	CA	Public	646	5.5
University of California: Berkeley	CA	Public	638	5.5
NCAA Eligibility Center	IN	Public	618	5.3
The Flinn Foundation	AZ	Scholarship	451	3.9
University of Washington	WA	Public	440	3.8
Harvard College	MA	Private	419	3.6
University of California: San Diego	CA	Public	358	3.1
Yale University	CT	Private	356	3.1
Cornell University	NY	Private	322	2.8
San Diego State University	CA	Public	322	2.8
University of Colorado Boulder	CO	Public	316	2.7
University of Pennsylvania	PA	Private	313	2.7
University of Chicago	IL	Private	309	2.7
Columbia University	NY	Private	306	2.6
New York University	NY	Private	301	2.6
NMSC Scholarship Admin	IL	Scholarship	300	2.6
Princeton University	NJ	Private	299	2.6
Duke University	NC	Private	293	2.5
Massachusetts Institute of Technology	MA	Private	287	2.5
Vanderbilt University	TN	Private	283	2.4
Northwestern University	IL	Private	279	2.4
University of San Diego	CA	Private	262	2.3
Colorado State University	CO	Public	255	2.2
Brigham Young University	UT	Private	253	2.2
University of Oregon	OR	Public	250	2.1
Brown University	RI	Private	245	2.1
University of Texas at Austin	TX	Public	241	2.1
Boston University	MA	Private	239	2.1
University of Michigan	MI	Public	221	1.9
Embry-Riddle Aeronautical Univ: Prescott	AZ	Private	220	1.9
Rice University	TX	Private	200	1.7
University of Portland	OR	Private	198	1.7
Johns Hopkins University	MD	Private	197	1.7
Dartmouth College	NH	Private	194	1.7
Washington University in St. Louis	MO	Private	193	1.7
Baylor University	TX	Private	193	1.7
University of California: Santa Barbara	CA	Public	179	1.5
University of Notre Dame	IN	Private	172	1.5
Fordham University	NY	Private	168	1.4

*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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