

SAT[®]

2016 College-Bound Seniors

State Profile Report



COLORADO

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	5,545	587	101	589	103	571	99	57.3	10.1	7.7	1.4

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	2,417	592	101	611	101	568	99	57.3	10.1	7.5	1.5
Female	3,128	582	101	572	101	574	99	57.4	10.1	7.8	1.3

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)	2,023	573	102	571	104	552	98	55.6	10.0	7.5	1.4
Junior (2014-2015)	3,452	595	100	599	101	583	98	58.4	10.1	7.8	1.4
Sophomore (2013-2014)	35	581	100	605	109	568	97	57.3	9.4	7.5	1.5
Freshman (2012-2013)	35	554	72	562	73	534	72	54.5	7.2	7.0	1.6
Total	5,545	587	101	589	103	571	99	57.3	10.1	7.7	1.4

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	660	660	640	570	590	560
50th	590	590	570	490	500	480
25th	520	520	510	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	405	407	812	482	349	831	252	345	597
600-690	803	1,059	1,862	938	926	1,864	699	943	1,642
500-590	809	1,064	1,873	687	1,137	1,824	881	1,212	2,093
400-490	332	485	817	258	590	848	486	510	996
300-390	60	94	154	48	120	168	92	102	194
200-290	8	19	27	4	6	10	7	16	23

Table 7: Type of High School

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Public	4,426	82	43	57	589	593	572
Religiously Affiliated	591	11	46	54	570	570	561
Independent	373	7	52	48	591	582	582
Other or Unknown	155		41	59	581	549	556

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	27	0	563	80	575	89	543	105
Asian or Asian American	535	10	579	118	628	108	576	115
Black or African American	160	3	530	98	521	98	507	101
Native Hawaiian or Pacific Islander	6	0	538		533		523	
Hispanic, Latino, or Latin American	525	9	540	111	539	107	526	103
White	3,911	71	596	95	594	97	580	93
Two or More Races, non-Hispanic	90	2	606	96	592	98	577	99
Other	72	1	597	113	593	117	589	112
No Response	219	4	589	104	577	111	564	100
Total	5,545	100	587	101	589	103	571	99

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	12	0	559		583		537	
Asian or Asian American	213	4	584	117	654	102	576	120
Black or African American	65	1	539	102	551	93	514	99
Native Hawaiian or Pacific Islander	2	0						
Hispanic, Latino, or Latin American	215	4	546	106	561	112	525	105
White	1,734	31	599	95	615	95	573	93
Two or More Races, non-Hispanic	43	1	628	95	624	97	588	103
Other	27	0	626	118	620	116	600	110
No Response	106	2	601	106	601	108	567	101
Total	2,417	44	592	101	611	101	568	99

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	15	0	565		569		548	
Asian or Asian American	322	6	575	118	612	110	576	111
Black or African American	95	2	524	94	500	95	502	103
Native Hawaiian or Pacific Islander	4	0						
Hispanic, Latino, or Latin American	310	6	535	114	523	101	526	102
White	2,177	39	593	94	577	95	584	92
Two or More Races, non-Hispanic	47	1	585	92	562	90	568	94
Other	45	1	579	107	576	114	583	112
No Response	113	2	578	101	555	109	562	100
Total	3,128	56	582	101	572	101	574	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	5,545	100	587	101	589	103	571	99
First Language Learned								
English	4,701	86	592	97	589	99	575	95
English and Another	491	9	573	117	590	120	567	112
Another Language	291	5	522	123	582	124	523	124
No Response	62		576	106	572	105	557	109
Citizenship								
U.S. Citizen / U.S. National	5,290	96	590	99	589	102	574	97
U.S. Permanent Resident or Refugee	84	2	553	131	595	132	549	134
Citizen of Another Country	108	2	499	123	611	100	507	112
Other, Unknown, or No Response	63		510	121	538	96	489	127
Plans to Apply for Financial Aid								
Yes	3,457	71	586	101	586	103	569	98
No	509	11	598	98	604	100	585	95
Don't Know	874	18	592	104	601	104	578	100
No Response	705		574	102	579	101	566	104
Family Income								
Less than \$20,000	119	3	521	119	523	110	504	116
About \$20,000 to \$40,000	238	7	555	94	556	96	538	93
About \$40,001 to \$60,000	340	9	558	95	552	103	541	93
About \$60,001 to \$80,000	373	10	575	98	573	102	555	90
About \$80,001 to \$100,000	480	13	579	99	581	102	564	97
About \$100,001 to \$140,000	821	23	594	95	591	96	573	90
About \$140,001 to \$200,000	586	16	593	96	601	96	576	93
More than \$200,000	675	19	607	96	619	98	598	92
No Response	1,913		591	106	594	105	579	105
Highest Level of Parental Education								
No High School Diploma	70	1	464	107	480	96	455	93
High School Diploma	467	9	528	98	530	97	515	94
Associate Degree	192	4	528	94	535	99	521	88
Bachelor's Degree	2,055	39	583	93	584	97	566	91
Graduate Degree	2,553	48	612	96	613	98	596	95
No Response	208		544	129	553	120	532	130
Took the PSAT/NMSQT®								
Yes, As a Junior	1,873	43	598	98	599	99	583	95
Yes, As a Sophomore or Younger	674	15	577	99	580	100	562	97
Yes, As a Junior and As a Sophomore or Younger	1,292	30	624	94	628	96	611	92
No	536	12	557	97	567	97	543	96
No Response	1,170		547	101	543	100	527	94

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	1,548	53	41	59	637	649	622
Second Tenth	758	26	43	57	576	581	560
Second Fifth	393	13	49	51	548	558	528
Final Three Fifths	243	8	49	51	503	497	489
No Response	2,603		44	56	573	569	559

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)	764	14	42	58	642	646	628
A (93–96)	1,767	33	38	62	620	624	607
A- (90–92)	1,210	23	42	58	580	587	567
B (80–89)	1,443	27	49	51	536	535	518
C (70–79)	129	2	65	35	491	482	467
D, E, or F (below 70)	6	0	100	0	557	465	457
No Response	226		50	50	550	542	522
Mean Grade Point Average	All Students: 3.69		Male: 3.62		Female: 3.73		

Table 14: Average Years of Study in Six Academic Subjects

SAT	Average Years of Study			Grade Point Average: Each Subject		
	Male	Female	Total	Male	Female	Total
Arts and Music	2.2	2.7	2.5	3.89	3.97	3.94
English and Language Arts	4.0	4.0	4.0	3.60	3.78	3.70
Foreign and Classical Languages	3.3	3.4	3.4	3.60	3.76	3.69
Mathematics	4.0	4.0	4.0	3.50	3.50	3.50
Natural Sciences	3.9	3.9	3.9	3.60	3.61	3.61
Social Sciences and History	3.8	3.8	3.8	3.67	3.76	3.72
Total for All Subjects	21.2	21.8	21.6			

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

Academic Information

Course-Taking Patterns

Table 15: English, Mathematics

English and Language Arts	Test-Takers		Percent by Gender		SAT Mean Scores		
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics
More Than 4 Years	546	12	40	60	614	610	596
4 Years	3,766	81	43	57	593	595	577
3 Years	200	4	45	56	542	551	526
2 Years	55	1	51	49	545	571	516
1 Year	31	1	35	65	498	512	486
1/2 Year or Less	53	1	53	47	480	482	464
No Response	894		48	52	563	569	554
AP [®] /Honors Courses	3,094	67	39	61	614	613	596
Course Work or Experience							
English/Language Arts	4,548	98	43	57	589	590	573
Journalism	441	9	28	72	592	580	578
Creative Writing	927	20	35	65	585	565	569
American Literature	2,920	63	43	57	587	587	571
Composition/Writing	2,556	55	43	57	590	586	573
British Literature	864	19	43	57	595	587	577
World Literature	1,920	41	43	57	592	588	575
Communications	361	8	42	58	581	575	568
Public Speaking	939	20	43	57	590	584	571
English As Second Language	92	2	39	61	497	564	492

Mathematics	Test-Takers		Percent by Gender		SAT Mean Scores		
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics
More Than 4 Years	947	19	47	53	617	634	599
4 Years	3,494	72	42	58	589	588	573
3 Years	260	5	43	57	546	533	527
2 Years	55	1	51	49	530	547	500
1 Year	25	1	60	40	501	557	502
1/2 Year or Less	82	2	49	51	488	483	477
No Response	682		47	53	567	570	559
AP/Honors Courses	3,145	65	45	55	616	630	599
Highest Level of Mathematics Achieved*							
Calculus	2,761	57	48	52	621	642	604
Pre-calculus	1,200	25	39	61	557	543	544
Geometry	788	16	33	67	526	491	508
Algebra II	49	1	45	55	553	517	520
Algebra I	18	0	28	72	451	467	437

*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	779	17	45	55	622	640	605	
4 Years	2,955	64	43	57	594	595	578	
3 Years	698	15	37	63	560	548	542	
2 Years	88	2	49	51	545	545	524	
1 Year	60	1	48	52	553	551	533	
1/2 Year or Less	59	1	53	47	478	490	472	
No Response	906		47	53	567	570	557	
AP/Honors Courses	2,742	59	43	57	616	626	599	
Course Work or Experience								
Biology	4,600	97	42	58	589	591	573	
Chemistry	4,477	95	43	57	591	594	575	
Physics	3,376	71	48	52	602	612	584	
Geology, Earth, or Space Science	2,081	44	40	60	570	564	554	
Other Sciences	1,950	41	37	63	579	576	565	

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	500	11	41	59	622	615	601	
4 Years	3,090	67	43	57	594	594	578	
3 Years	810	18	43	57	576	586	561	
2 Years	106	2	39	61	545	562	519	
1 Year	40	1	38	63	514	543	515	
1/2 Year or Less	59	1	54	46	480	505	475	
No Response	940		48	52	565	571	556	
AP/Honors Courses	2,743	60	42	58	617	618	598	
Course Work or Experience								
U.S. History	4,552	97	43	57	590	592	573	
World History or Cultures	3,727	80	43	57	589	592	573	
U.S. Government or Civics	3,981	85	42	58	590	591	572	
Economics	2,109	45	46	54	595	602	577	
Geography	2,966	63	41	59	586	588	569	
Psychology	1,867	40	34	66	585	581	569	
European History	1,221	26	42	58	612	603	595	
Sociology	560	12	31	69	562	560	550	
Ancient History	656	14	43	57	595	586	576	
Other Courses	861	18	39	61	588	582	571	

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	556	12	36	64	618	619	605
4 Years	1,757	38	41	59	611	613	600
3 Years	1,525	33	47	53	584	586	563
2 Years	585	13	45	55	556	551	530
1 Year	77	2	48	52	555	555	518
1/2 Year or Less	108	2	44	56	450	486	456
No Response	937		48	52	565	570	555
AP/Honors Courses	1,746	38	40	60	630	634	617
Course Work or Experience							
Chinese	202	4	49	51	608	630	589
French	944	20	32	68	600	593	580
German	266	6	58	42	590	585	557
Greek	13	0	62	38	661	618	607
Hebrew	25	1	52	48	588	551	568
Italian	24	1	33	67	567	549	549
Japanese	58	1	48	52	602	593	573
Korean	9	0	44	56	472	562	489
Latin	272	6	53	47	619	612	599
Russian	12	0	50	50	488	523	489
Spanish	3,232	69	43	57	585	587	571
Other Languages	127	3	27	73	547	549	519

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	263	11	30	70	599	596	582
4 Years	519	22	34	66	596	590	581
3 Years	311	13	37	63	584	576	562
2 Years	523	22	40	60	574	575	557
1 Year	457	19	47	53	590	600	567
1/2 Year or Less	306	13	58	42	573	589	552
No Response	3,166		45	55	587	590	574
AP/Honors Courses	266	11	35	65	607	608	586
Course Work or Experience							
Acting or Play Production	1,054	23	28	72	604	584	583
Art History or Appreciation	609	13	35	65	581	563	564
Dance	635	14	9	91	587	574	575
Drama: Study or Appreciation	839	19	26	74	592	573	572
Music: Study or Appreciation	674	15	41	59	604	598	586
Music Performance	2,186	48	39	61	603	602	586
Photography or Film	1,368	30	36	64	583	577	569
Studio Art and Design	1,579	35	34	66	589	584	575
None	431	10	61	39	566	585	548

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
1,827	4,564	1,194	661	678	653

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	138	8
2	874	48
3	644	35
4 or More	171	9

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	540	642	91	366	675	79	656	77	662	79	
History and Social Studies											
U.S. History	471	644	97	315	671	81	667	79	662	80	
World History	133	640	98	113	677	74	668	82	658	80	
Mathematics											
Mathematics Level 1	383	624	95	236	624	87	638	78	612	84	
Mathematics Level 2	1,295	700	84	849	668	81	701	67	662	82	
Science											
Biology-E	197	664	79	125	659	85	665	88	651	94	
Biology-M	219	673	81	131	661	75	684	71	662	81	
Chemistry	538	676	90	366	666	83	703	72	662	83	
Physics	420	678	83	277	668	87	708	70	656	86	
Foreign and Classical Languages											
Chinese/Listening	17	763		14	650		683		622		
French	61	592	107	49	652	85	655	92	669	94	
French/Listening	11	635		9	651		628		672		
German	8	663		8	700		634		695		
German/Listening	5	620		3							
Modern Hebrew											
Italian	1			1							
Japanese/Listening	8	704		6	630		665		647		
Korean/Listening	7	737		3							
Latin	15	645		14	706		686		686		
Spanish	205	628	101	146	670	86	665	78	670	79	
Spanish/Listening	30	686	104	24	658		662		674		

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	58	11	73	15	22	17
700-740	105	19	90	19	23	17
650-690	122	23	92	20	21	16
600-640	110	20	81	17	28	21
550-590	76	14	53	11	18	14
500-540	28	5	48	10	7	5
450-490	24	4	19	4	10	8
400-440	8	1	10	2	3	2
350-390	9	2	4	1	1	1
300-340			1	0		
250-290						
200-240						
Total	540		471		133	
Mean	642		644		640	
SD	91		97		98	
75th percentile	710		710		710	
50th percentile	650		660		640	
25th percentile	590		580		580	

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	36	9	492	38	33	17	41	19	137	25	100	24
700-740	63	16	220	17	39	20	59	27	118	22	102	24
650-690	72	19	231	18	42	21	41	19	111	21	83	20
600-640	78	20	197	15	43	22	45	21	70	13	67	16
550-590	60	16	109	8	25	13	16	7	50	9	37	9
500-540	31	8	34	3	11	6	11	5	30	6	18	4
450-490	27	7	6	0	2	1	5	2	14	3	11	3
400-440	8	2	4	0	2	1	1	0	6	1	2	0
350-390	7	2	2	0					2	0		
300-340	1	0										
250-290												
200-240												
Total	383		1,295		197		219		538		420	
Mean	624		700		664		673		676		678	
SD	95		84		79		81		90		83	
75th percentile	700		780		720		730		750		740	
50th percentile	630		710		670		680		690		690	
25th percentile	570		640		610		620		620		620	

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	13	76	6	10	3	27	2	25	2	40		
700-740	2	12	4	7			2	25				
650-690			8	13	2	18	1	13				
600-640	2	12	13	21	2	18	2	25				
550-590			8	13	1	9						
500-540			11	18	2	18			3	60		
450-490			5	8	1	9						
400-440			5	8			1	13				
350-390			1	2								
300-340												
250-290												
200-240												
Total	17		61		11		8		5			
Mean	763		592		635		663		620			
SD			107									
75th percentile			650									
50th percentile			580									
25th percentile			520									

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	1	100	4	50	5	71	4	27	26	13	12	40
700-740			1	13			1	7	33	16	4	13
650-690			1	13	1	14	3	20	36	18	4	13
600-640							2	13	33	16	5	17
550-590			1	13	1	14	1	7	39	19	1	3
500-540			1	13			3	20	14	7	1	3
450-490									12	6	2	7
400-440							1	7	10	5	1	3
350-390									2	1		
300-340												
250-290												
200-240												
Total	1		8		7		15		205		30	
Mean			704		737		645		628		686	
SD									101		104	
75th percentile									710		770	
50th percentile									640		700	
25th percentile									560		620	

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	21	0	544	542	540
Architecture and Related Services	58	1	564	591	546
Area, Ethnic, Cultural and Gender Studies	8	0	560	509	546
Biological and Biomedical Sciences	487	10	602	604	586
Business Management, Marketing, and Related Support Services	531	11	557	567	547
Communication, Journalism and Related Programs	112	2	582	542	573
Computer and Information Sciences and Support Services	187	4	619	643	598
Construction Trades	1	0			
Education	108	2	568	551	558
Engineering	836	17	607	642	584
Engineering Technologies/Technicians	54	1	574	613	550
English Language and Literature/Letters	101	2	631	573	612
Family and Consumer Sciences/Human Sciences	2	0			
Foreign Languages, Literatures, and Linguistics	44	1	618	577	595
Health Professions and Related Clinical Services	614	13	562	571	558
History	46	1	614	574	583
Legal Professions and Studies	107	2	597	575	579
Liberal Arts and Sciences, General Studies, and Humanities	60	1	605	563	596
Library Science And Administration	2	0			
Mathematics and Statistics	59	1	654	696	640
Mechanic and Repair Technologies/Technician	1	0			
Military Technologies And Applied Sciences	19	0	567	578	543
Multi/Interdisciplinary Studies	75	2	633	619	623
Natural Resources and Conservation	26	1	610	562	590
Parks, Recreation, Leisure and Fitness Studies	10	0	535	485	468
Personal and Culinary Services	4	0			
Philosophy and Religious Studies	6	0	590	583	623
Physical Sciences	150	3	630	650	608
Precision Production	0	0			
Psychology	172	4	561	542	546
Public Administration and Social Services Professions	9	0	562	544	549
Security and Protective Services	47	1	559	524	545
Social Sciences	182	4	630	603	605
Theology and Religious Vocations	13	0	568	528	557
Transportation and Materials Moving	4	0			
Visual and Performing Arts	337	7	575	556	558
Other	35	1	526	540	517
Undecided	320	7	608	603	593
Degree-Level Goal					
Certificate Program	10	0	520	492	495
Associate Degree	7	0	441	441	460
Bachelor's Degree	1,060	22	549	549	538
Master's Degree	1,792	37	591	593	572
Doctoral or Related Degree	1,457	30	613	618	596
Other	6	0	480	555	475
Undecided	559	11	594	592	578

College Plans

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

Of the 6,178 students from your state who took the SAT and/or an SAT Subject Test, 3,955 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 990 institutions received score reports from your students.

Institution	State	Type	Number of Students	Percent of Score Senders*
University of Colorado Boulder	CO	Public	1,395	35.3
Colorado State University	CO	Public	848	21.4
University of Denver	CO	Private	520	13.1
Stanford University	CA	Private	513	13.0
Colorado School of Mines	CO	Public	488	12.3
University of California: Berkeley	CA	Public	335	8.5
Cornell University	NY	Private	322	8.1
Massachusetts Institute of Technology	MA	Private	300	7.6
Harvard College	MA	Private	287	7.3
University of Colorado Colorado Springs	CO	Public	276	7.0
Dartmouth College	NH	Private	271	6.9
Boettcher Foundation Scholarship	CO	Scholarship	267	6.8
University of Southern California	CA	Private	264	6.7
NMSC Scholarship Admin	IL	Scholarship	256	6.5
Northwestern University	IL	Private	239	6.0
University of Washington	WA	Public	235	5.9
University of Colorado Denver	CO	Public	234	5.9
Princeton University	NJ	Private	232	5.9
Brown University	RI	Private	216	5.5
Yale University	CT	Private	207	5.2
Duke University	NC	Private	204	5.2
University of Northern Colorado	CO	Public	200	5.1
University of Pennsylvania	PA	Private	200	5.1
University of California: Los Angeles	CA	Public	196	5.0
University of Michigan	MI	Public	192	4.9
Colorado College	CO	Private	186	4.7
Vanderbilt University	TN	Private	183	4.6
Columbia University	NY	Private	177	4.5
University of Chicago	IL	Private	172	4.3
Carnegie Mellon University	PA	Private	166	4.2
Montana State University	MT	Public	163	4.1
Washington University in St. Louis	MO	Private	158	4.0
Johns Hopkins University	MD	Private	154	3.9
Boston University	MA	Private	151	3.8
California Institute of Technology	CA	Private	148	3.7
NCAA Eligibility Center	IN	Public	139	3.5
Santa Clara University	CA	Private	136	3.4
Georgetown University	DC	Private	132	3.3
University of California: San Diego	CA	Public	132	3.3
New York University	NY	Private	128	3.2
Center for Bright Kids	CO	Scholarship	124	3.1
University of Virginia	VA	Public	121	3.1
University of Oregon	OR	Public	117	3.0
University of California: Santa Barbara	CA	Public	114	2.9
University of North Carolina at Chapel Hill	NC	Public	109	2.8

*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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