



2011 College-Bound Seniors

State Profile Report

MONTANA

Included in This Report

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 2011* includes students who tested through June 2011.

Using This Report

College-Bound Seniors presents data for high school graduates in the year 2011 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 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 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.
- 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.
- 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.org.

Mean

The *mean* is the arithmetic average.

Percentile

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

Scaled score

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

Standard deviation (SD)

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

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, 1972–2011

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

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 2000–2011, all scores are reported on the recentered scale. Cohort data presented prior to 2007 include students testing through March of the senior year, while cohort data from 2007 to present include students testing through June. For further information see <http://www.collegeboard.org/sat/cbs-2011-trends>.

Table of Contents

SAT®

SAT Data	Page 1
----------	--------

Table 1: Overall Mean Scores
Table 2: Mean Scores by Gender
Table 3: Year in Which Seniors Last Took the SAT
Table 4: Mean Scores for Total Group
Table 5: Percentiles for State and Total Group
Table 6: Score Distributions
Table 7: Type of High School
Table 8: Test-Taking Conditions

Demographic Information

SAT: Mean Scores by Gender Within Ethnicity	Page 3
---	--------

Table 9: Total Mean Scores by Ethnicity
Table 10: Male Mean Scores by Ethnicity
Table 11: Female Mean Scores by Ethnicity

SAT: Student Background Information and Characteristics	Page 4
---	--------

Table 12: Student Background Information and Characteristics
--

Academic Information

Academic Record	Page 5
-----------------	--------

Table 13: High School Rank
Table 14: High School Grade Point Average
Table 15: Average Years of Study in Six Academic Subjects

Course-Taking Patterns	Page 6
------------------------	--------

Table 16: English and Language Arts, Mathematics
Table 17: Natural Sciences, Social Sciences and History
Table 18: Foreign and Classical Languages
Table 19: Arts and Music, Computers

SAT Subject Tests™

SAT Subject Tests Data	Page 10
------------------------	---------

Table 20: Number of Test-Takers and Tests for SAT Subject Tests
Table 21: Mean Scores for SAT Subject Tests and for Students Who Also Took the SAT

SAT Subject Tests Score Distributions	Page 11
---------------------------------------	---------

Table 22: English, History and Social Studies
Table 23: Mathematics, Science
Table 24: Foreign and Classical Languages
Table 25: Foreign and Classical Languages (continued)

College Plans

Intended College Major, Degree-Level Goal	Page 13
---	---------

Table 26: Intended College Major, Degree-Level Goal

Institutions That Received the Most SAT® Program Score Reports from Your Students	Page 14
---	---------

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

Data in this report are for high school graduates in the year 2011. Information is summarized for seniors who took the SAT at any time during their high school years through June 2011. If a student took the test more than once, the most recent score is used.

Table 1: Overall Mean Scores

SAT	Test-Takers Number	Critical Reading		Mathematics		Writing *		Writing Subscores			
		Mean	SD	Mean	SD	Mean	SD	Multiple Choice		Essay	
								Mean	SD	Mean	SD
Total	2,658	539	99	537	97	516	98	51.8	10.0	7.4	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	1,209	539	100	550	96	506	99	51.1	10.1	7.3	1.5
Female	1,449	539	98	525	96	524	96	52.4	9.8	7.6	1.4

Table 3: Year in Which Seniors Last Took the SAT

Scores are from the last administration in which seniors took the SAT.

SAT	Test-Takers Number	Critical Reading		Mathematics		Writing		Writing Subscores			
		Mean	SD	Mean	SD	Mean	SD	Multiple Choice		Essay	
								Mean	SD	Mean	SD
Senior (2010-2011)	1,642	532	100	525	97	508	99	50.9	10.0	7.3	1.5
Junior (2009-2010)	1,006	550	95	555	94	528	95	53.2	9.7	7.6	1.4
Sophomore (2008-2009)	9	550		536		546		55.4		7.3	
Freshman (2007-2008)	1										
Total	2,658	539	99	537	97	516	98	51.8	10.0	7.4	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	1,647,123	497	114	514	117	489	113	49.1	11.4	7.3	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 2011 cohort took the SAT writing section. The writing section contains one essay (30 percent of the total score) and 49 multiple-choice questions (70 percent of the total score). Essay scores range from 2-12, with a very small percentage of students (less than 0.3 percent) receiving scores of 0 on the essay, for essays written completely off topic. Multiple-choice scores range from 20 to 80.

Note: Mean scores are reported when there are five or more test-takers. Standard deviations are reported when there are 25 or more test-takers.

SAT Data

Table 5: Percentiles for State and Total Group

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

SAT Percentile	State			Total Group		
	Critical Reading	Mathematics	Writing	Critical Reading	Mathematics	Writing
75th	600	610	580	570	600	560
50th	540	540	510	490	510	480
25th	470	470	450	420	430	410

Table 6: Score Distributions

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

SAT Score Range	Critical Reading			Mathematics			Writing		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
700–800	76	79	155	82	59	141	49	63	112
600-690	261	343	604	319	295	614	173	268	441
500-590	473	549	1,022	460	526	986	426	530	956
400-490	320	377	697	279	450	729	412	466	878
300-390	74	95	169	65	107	172	135	118	253
200-290	5	6	11	4	12	16	14	4	18

Table 7: Type of High School

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Public	2,173	88	45	55	539	540	515
Religiously Affiliated	168	7	46	54	538	529	522
Independent	133	5	53	47	570	546	554
Other or Unknown	184		47	53	526	500	497

Table 8: Test-Taking Conditions

Nonstandard conditions reflect test-takers who received an accommodation. *Disabling conditions* are self-reported student responses.

SAT	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
Disabling Conditions	97	4	488	86	476	88	459	78
Nonstandard Conditions	36	1	544	87	546	119	543	108

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	52	2	481	86	489	86	452	80
Asian, Asian American, or Pacific Islander	75	3	520	118	577	106	511	110
Black or African American	15	1	521		502		477	
Mexican or Mexican American	25	1	523	113	504	82	480	102
Puerto Rican	4	0						
Other Hispanic, Latino, or Latin American	36	1	501	116	500	105	473	110
White	2,336	88	542	97	538	96	519	96
Other	31	1	513	125	524	96	491	120
No Response	84	3	536	100	529	92	516	102
Total	2,658	100	539	99	537	97	516	98

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	28	1	495	81	500	97	458	76
Asian, Asian American, or Pacific Islander	33	1	542	119	592	96	525	94
Black or African American	8	0	516		530		468	
Mexican or Mexican American	12	0	503		514		455	
Puerto Rican								
Other Hispanic, Latino, or Latin American	18	1	503		506		454	
White	1,045	39	543	98	553	96	509	98
Other	14	1	487		521		469	
No Response	51	2	526	102	527	88	507	104
Total	1,209	45	539	100	550	96	506	99

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	24	1	465		477		445	
Asian, Asian American, or Pacific Islander	42	2	503	115	566	113	500	120
Black or African American	7	0	527		470		487	
Mexican or Mexican American	13	0	542		494		504	
Puerto Rican	4	0						
Other Hispanic, Latino, or Latin American	18	1	498		493		492	
White	1,291	49	542	96	525	95	527	94
Other	17	1	534		526		508	
No Response	33	1	552	95	533	98	530	98
Total	1,449	55	539	98	525	96	524	96

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	2,658	100	539	99	537	97	516	98
First Language Learned								
English	2,443	94	541	98	536	97	517	97
English and Another	102	4	520	107	529	103	497	105
Another Language	49	2	469	107	554	109	476	108
No Response	64		569	95	545	93	533	100
Citizenship								
U.S. Citizen / U.S. National	2,497	98	541	98	536	97	517	97
U.S. Permanent Resident or Refugee	18	1	570		564		548	
Citizen of Another Country	36	1	446	106	581	110	464	114
Other, Unknown, or No Response	107		525	99	521	86	494	100
Plans to Apply for Financial Aid								
Yes	1,827	77	538	99	537	97	515	97
No	151	6	543	98	538	97	517	102
Don't Know	401	17	536	99	530	98	512	98
No Response	279		549	94	543	95	526	97
Family Income								
\$0 - \$20,000	105	6	513	101	504	99	481	97
\$20,000–\$40,000	318	18	527	99	528	98	500	99
\$40,000–\$60,000	350	20	529	95	526	100	507	92
\$60,000–\$80,000	316	18	535	95	540	92	507	92
\$80,000–\$100,000	239	14	530	95	532	95	512	98
\$100,000–\$120,000	193	11	550	94	547	93	525	91
\$120,000–\$140,000	60	3	563	110	569	103	532	103
\$140,000–\$160,000	48	3	540	90	564	97	534	97
\$160,000–\$200,000	53	3	556	88	554	86	531	94
More than \$200,000	78	4	566	105	554	97	542	110
No Response	898		547	101	539	97	526	99
Highest Level of Parental Education								
No High School Diploma	14	1	442		461		433	
High School Diploma	674	27	508	93	507	93	483	89
Associate Degree	190	8	521	92	520	98	495	92
Bachelor's Degree	946	38	541	93	540	91	518	91
Graduate Degree	687	27	576	101	570	98	554	102
No Response	147		528	96	524	95	512	101
Took the PSAT/NMSQT®								
Yes, As a Junior	1,131	45	549	96	547	93	528	94
Yes, As a Sophomore or Younger	313	13	545	89	543	92	522	93
Yes, As a Junior and As a Sophomore or Younger	363	15	578	99	578	90	556	95
No	683	27	501	95	496	94	472	92
No Response	168		534	96	527	95	513	96

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

Academic Information

Academic Record

Table 13: High School Rank

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Highest Tenth	688	43	38	62	594	606	577
Second Tenth	443	27	45	55	535	537	515
Second Fifth	266	16	53	47	522	522	494
Final Three Fifths	216	13	57	43	479	476	448
No Response	1,045		47	53	522	507	496

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)	208	8	35	65	622	635	611
A (93–96)	655	26	36	64	580	583	563
A- (90–92)	563	22	43	57	541	547	521
B (80–89)	910	36	51	49	506	494	477
C (70–79)	173	7	65	35	465	456	437
D, E, or F (below 70)	11	0	73	27	473	505	438
No Response	138		57	43	528	505	487
Mean Grade Point Average	All Students: 3.48		Male: 3.37		Female: 3.58		

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	2.5	2.8	2.7	3.77	3.92	3.86
English and Language Arts	3.9	3.9	3.9	3.40	3.66	3.55
Foreign and Classical Languages	2.3	2.4	2.4	3.36	3.59	3.49
Mathematics	3.8	3.8	3.8	3.22	3.26	3.24
Natural Sciences	3.4	3.4	3.4	3.38	3.46	3.42
Social Sciences and History	3.4	3.3	3.4	3.47	3.59	3.54
Total for All Subjects	19.3	19.6	19.6			

Academic Information

Course-Taking Patterns

Table 16: English, Mathematics

English and Language Arts Years of Study	Test-Takers		Percent by Gender		SAT Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	203	9	42	58	548	552	533
4 Years	1,833	79	45	55	542	540	518
3 Years	217	9	44	56	507	511	487
2 Years	35	2	49	51	535	529	503
1 Year	10	0	40	60	552	518	498
1/2 Year or Less	15	1	27	73	473	453	459
No Response	345		54	46	543	531	519
AP®/Honors Courses	929	40	37	63	589	574	564
Course Work or Experience							
English/Language Arts	2,125	97	43	57	539	538	516
Journalism	299	14	36	64	537	528	520
Creative Writing	729	33	41	59	534	526	511
American Literature	1,372	62	43	57	543	539	521
Composition/Writing	1,311	60	41	59	536	533	515
British Literature	390	18	44	56	555	545	535
World Literature	776	35	42	58	545	541	526
Communications	286	13	43	57	533	532	511
Public Speaking	622	28	40	60	540	531	518
English As Second Language	84	4	49	51	465	514	461

Mathematics Years of Study	Test-Takers		Percent by Gender		SAT Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	327	14	47	53	559	594	544
4 Years	1,400	61	43	57	548	546	523
3 Years	488	21	46	54	509	487	483
2 Years	74	3	41	59	489	464	470
1 Year	8	0	25	75	534	534	520
1/2 Year or Less	14	1	36	64	471	454	445
No Response	347		54	46	543	532	518
AP/Honors Courses	853	37	44	56	587	604	563
Highest Level of Mathematics Achieved*							
Calculus	651	29	49	51	588	615	566
Pre-calculus	607	27	40	60	544	548	522
Trigonometry	298	13	37	63	512	499	490
Algebra II	582	26	45	55	508	485	485
Algebra I	107	5	39	61	457	419	436

*To better reflect the relationship between students' SAT scores and their Mathematics course work, course work is now being displayed as the highest level of mathematics achieved. This means that each student is counted only once under their highest level of mathematics course taken.

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

Academic Information

Course-Taking Patterns

Table 17: Natural Sciences, Social Sciences and History

Natural Sciences	Test-Takers		Percent by Gender		SAT Mean Scores			
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	244	11	46	54	571	586	548	
4 Years	912	40	44	56	559	559	537	
3 Years	775	34	42	58	523	517	500	
2 Years	309	13	47	53	501	495	475	
1 Year	38	2	53	47	522	513	486	
1/2 Year or Less	20	1	25	75	476	446	452	
No Response	360		56	44	540	531	517	
AP/Honors Courses	642	28	43	57	590	593	565	
Course Work or Experience								
Biology	2,161	97	43	57	540	538	517	
Chemistry	1,721	77	43	57	549	549	527	
Physics	927	42	51	49	561	571	536	
Geology, Earth, or Space Science	1,650	74	44	56	538	536	516	
Other Sciences	852	38	37	63	535	531	511	

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	124	5	51	49	558	551	533	
4 Years	920	40	45	55	545	536	523	
3 Years	993	43	42	58	537	543	514	
2 Years	209	9	47	53	519	521	497	
1 Year	34	1	41	59	506	530	469	
1/2 Year or Less	20	1	35	65	462	462	458	
No Response	358		55	45	541	530	517	
AP/Honors Courses	656	29	44	56	599	587	572	
Course Work or Experience								
U.S. History	2,153	97	43	57	540	539	517	
World History or Cultures	1,848	83	43	57	540	539	518	
U.S. Government or Civics	1,737	78	44	56	540	539	516	
Economics	354	16	48	52	545	542	525	
Geography	567	25	47	53	533	528	508	
Psychology	588	26	35	65	544	538	520	
European History	479	22	47	53	560	544	535	
Sociology	206	9	42	58	532	532	512	
Ancient History	442	20	48	52	548	539	525	
Other Courses	496	22	39	61	543	543	518	

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

Academic Information

Course-Taking Patterns

Table 18: Foreign and Classical Languages

Foreign and Classical Languages Years of Study	Test-Takers		Percent by Gender		SAT Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	105	5	33	67	573	580	567
4 Years	348	15	41	59	588	581	570
3 Years	405	18	42	58	564	557	541
2 Years	988	43	46	54	529	533	505
1 Year	237	10	47	53	496	495	467
1/2 Year or Less	201	9	45	55	487	478	456
No Response	374		54	46	540	529	515
AP/Honors Courses	205	9	43	57	612	604	599
Course Work or Experience							
Chinese	46	2	39	61	548	592	530
French	304	14	33	67	571	552	545
German	271	12	49	51	547	548	522
Greek	29	1	21	79	549	538	539
Hebrew	3	0	100	0			
Italian	5	0	40	60	530	504	530
Japanese	17	1	35	65	560	584	549
Korean	11	1	45	55	480	590	519
Latin	130	6	33	67	589	562	557
Russian	13	1	54	46	513	538	536
Spanish	1,486	68	44	56	539	539	519
Other Languages	43	2	40	60	553	531	527

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

Academic Information

Course-Taking Patterns

Table 19: Arts and Music, Computers

Arts and Music	Test-Takers		Percent by Gender		SAT Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Years of Study							
More Than 4 Years	256	11	40	60	553	546	530
4 Years	568	25	38	62	555	543	533
3 Years	343	15	41	59	522	519	506
2 Years	528	23	44	56	533	538	510
1 Year	506	22	53	47	536	543	508
1/2 Year or Less	97	4	49	51	498	515	479
No Response	360		55	45	543	532	519
AP/Honors Courses	158	7	44	56	580	565	556
Course Work or Experience							
Acting or Play Production	478	22	34	66	569	546	545
Art History or Appreciation	420	19	44	56	531	521	508
Dance	223	10	14	86	541	520	528
Drama: Study or Appreciation	347	16	33	67	554	529	534
Music: Study or Appreciation	299	14	44	56	559	539	534
Music Performance	1,268	58	40	60	555	548	534
Photography or Film	520	24	40	60	541	531	517
Studio Art and Design	624	29	37	63	544	538	520
None	207	9	57	43	497	518	476

Computers	Test-Takers		Percent by Gender		SAT Mean Scores		
Course Work or Experience	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Computer Literacy	1,504	70	42	58	541	538	520
Computer Programming	337	16	54	46	527	538	507
Word Processing	1,604	75	42	58	542	539	519
Internet Activity	1,132	53	43	57	542	537	518
Using Computer Graphics	867	40	46	54	544	542	521
Creating Spreadsheets/Databases	1,005	47	43	57	541	538	518
None	182	9	44	56	529	529	501

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

SAT Subject Tests™ Data

Table 20: Number of Test-Takers and Tests for SAT Subject Tests

Students Who Took SAT Subject Tests		Students Who Took an SAT Subject Test and Also Took the SAT			
Number of Test-Takers	Number of Tests	Number of Test-Takers	Critical Reading Mean	Mathematics Mean	Writing Mean
203	533	181	654	652	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	13	6
2	86	42
3	77	38
4 or More	27	13

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

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

	SAT Subject Test			N	SAT					
	N	Mean	SD		Critical Reading Mean	SD	Mathematics Mean	SD	Writing Mean	SD
English										
Literature	96	642	92	88	662	95	627	89	646	93
History and Social Studies										
U.S. History	80	643	105	73	660	88	637	84	640	89
World History	8	579		7	619		570		587	
Mathematics										
Mathematics Level 1	65	640	89	55	630	97	644	86	613	91
Mathematics Level 2	114	683	75	105	658	93	687	68	650	89
Science										
Biology-E	17	636		16	673		644		687	
Biology-M	31	695	78	25	673	96	681	76	655	86
Chemistry	54	619	88	45	638	97	664	88	628	94
Physics	27	663	86	25	642	82	690	71	624	87
Foreign and Classical Languages										
Chinese/Listening										
French	6	508		5	668		676		706	
French/Listening	3			2						
German	1			1						
German/Listening	1			1						
Modern Hebrew										
Italian										
Japanese/Listening										
Korean/Listening	2			2						
Latin	4			4						
Spanish	19	566		19	664		649		652	
Spanish/Listening	5	634		5	690		678		718	

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	11	11	17	21	2	25
700-740	21	22	14	18		
650-690	20	21	9	11	1	13
600-640	16	17	10	13	1	13
550-590	13	14	14	18		
500-540	6	6	9	11	1	13
450-490	6	6	4	5	1	13
400-440	3	3	2	3	2	25
350-390			1	1		
300-340						
250-290						
200-240						
Total	96		80		8	
Mean	642		643		579	
SD	92		105			
75th percentile	720		730			
50th percentile	660		640			
25th percentile	590		570			

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	7	11	31	27			7	23	2	4	5	19
700-740	12	18	19	17	5	29	11	35	11	20	7	26
650-690	15	23	28	25	4	24	7	23	10	19	2	7
600-640	13	20	19	17	4	24	3	10	12	22	6	22
550-590	10	15	15	13	1	6	2	6	8	15	5	19
500-540	4	6	2	2	2	12			5	9	1	4
450-490	1	2			1	6			4	7	1	4
400-440	1	2					1	3	2	4		
350-390	2	3										
300-340												
250-290												
200-240												
Total	65		114		17		31		54		27	
Mean	640		683		636		695		619		663	
SD	89		75				78		88		86	
75th percentile	700		750				730		680		730	
50th percentile	650		680				700		630		630	
25th percentile	590		610				660		560		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			1	17								
700-740												
650-690												
600-640									1	100		
550-590					2	67						
500-540			1	17								
450-490			1	17			1	100				
400-440			3	50								
350-390					1	33						
300-340												
250-290												
200-240												
Total			6		3		1		1			
Mean				508								
SD												
75th percentile												
50th percentile												
25th percentile												

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					2	100						
700-740							1	25	3	16		
650-690							1	25	3	16	3	60
600-640							1	25			1	20
550-590									5	26		
500-540									2	11	1	20
450-490							1	25	5	26		
400-440									1	5		
350-390												
300-340												
250-290												
200-240												
Total					2		4		19		5	
Mean									566		634	
SD												
75th percentile												
50th percentile												
25th percentile												

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	20	1	528	529	495
Architecture and Related Services	44	2	544	577	512
Area, Ethnic, Cultural and Gender Studies	3	0			
Biological and Biomedical Sciences	153	7	571	560	551
Business Management, Marketing, and Related Support Services	167	7	522	537	501
Communication, Journalism and Related Programs	45	2	574	530	560
Computer and Information Sciences and Support Services	40	2	572	569	520
Construction Trades	3	0			
Education	122	5	514	509	500
Engineering	254	11	559	596	535
Engineering Technologies/Technicians	27	1	534	526	478
English Language and Literature/Letters	44	2	610	543	580
Family and Consumer Sciences/Human Sciences	3	0			
Foreign Languages, Literatures, and Linguistics	28	1	625	582	609
Health Professions and Related Clinical Services	442	20	522	531	506
History	28	1	581	515	530
Legal Professions and Studies	44	2	529	520	502
Liberal Arts and Sciences, General Studies, and Humanities	37	2	553	513	532
Library Science And Administration	1	0			
Mathematics and Statistics	22	1	568	619	556
Mechanic and Repair Technologies/Technician	12	1	418	453	392
Military Technologies And Applied Sciences	3	0			
Multi/Interdisciplinary Studies	2	0			
Natural Resources and Conservation	23	1	547	536	493
Parks, Recreation, Leisure and Fitness Studies	13	1	472	445	452
Personal and Culinary Services	6	0	520	503	508
Philosophy and Religious Studies	8	0	553	540	550
Physical Sciences	54	2	571	595	538
Precision Production					
Psychology	95	4	535	497	503
Public Administration and Social Services Professions	10	0	492	450	476
Security and Protective Services	33	1	505	508	472
Social Sciences	40	2	615	572	583
Theology and Religious Vocations	11	0	518	504	509
Transportation and Materials Moving	1	0			
Visual and Performing Arts	192	9	558	532	538
Other	36	2	511	493	497
Undecided	163	7	550	550	529
Degree-Level Goal					
Certificate Program	30	1	445	453	418
Associate Degree	46	2	458	433	435
Bachelor's Degree	861	36	516	514	492
Master's Degree	563	23	554	555	531
Doctoral or Related Degree	449	19	577	579	553
Other	11	0	479	473	450
Undecided	452	19	540	531	518

College Plans

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

Of the 2,680 students from your state who took the SAT and/or an SAT Subject Test, 1,711 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 720 institutions received score reports from your students.

Institution	State	Type	Number of Students	Percent of Score Senders*
MONTANA STATE UNIVERSITY	MT	Public	887	51.8
UNIVERSITY OF MONTANA	MT	Public	637	37.2
CARROLL COLLEGE MONTANA	MT	Private	170	9.9
MONTANA TECH OF UNIVERSITY MONTANA	MT	Public	114	6.7
MONTANA STATE UNIVERSITY BILLINGS	MT	Public	106	6.2
STANFORD UNIVERSITY	CA	Private	106	6.2
UNIVERSITY OF WASHINGTON	WA	Public	101	5.9
MONTANA AGATE	MT	Scholarship	94	5.5
NCAA ELIGIBILITY CENTER	IN	Public	93	5.4
UNIVERSITY OF OREGON	OR	Public	84	4.9
GONZAGA UNIVERSITY	WA	Private	78	4.6
HARVARD UNDERGRADUATE ADMISSIONS	MA	Private	73	4.3
WASHINGTON STATE UNIVERSITY	WA	Public	72	4.2
UNIVERSITY OF MONTANA WESTERN	MT	Public	69	4.0
ROCKY MOUNTAIN COLLEGE	MT	Private	68	4.0
NATIONAL MERIT SCHOLARSHIP PROGRAM	IL	Scholarship	58	3.4
WESTERN WASHINGTON UNIVERSITY	WA	Public	58	3.4
OREGON STATE UNIVERSITY	OR	Public	53	3.1
YALE UNIVERSITY	CT	Private	51	3.0
SEATTLE UNIVERSITY	WA	Private	50	2.9
COLLEGE OF TECHNOLOGY UNIVERSITY OF MONT	MT	Public	48	2.8
COLORADO STATE UNIVERSITY FT COLLINS	CO	Public	46	2.7
FLATHEAD VALLEY COMMUNITY COLLEGE	MT	Public	45	2.6
UNIVERSITY OF COLORADO BOULDER	CO	Public	44	2.6
DARTMOUTH COLLEGE	NH	Private	43	2.5
BOISE STATE UNIVERSITY	ID	Public	41	2.4
UNIVERSITY OF IDAHO	ID	Public	41	2.4
UNIVERSITY OF PORTLAND	OR	Private	41	2.4
UNIVERSITY OF PUGET SOUND	WA	Private	41	2.4
WILLAMETTE UNIVERSITY	OR	Private	39	2.3
BROWN UNIVERSITY	RI	Private	39	2.3
PRINCETON UNIVERSITY	NJ	Private	38	2.2
LEWIS AND CLARK COLLEGE	OR	Private	37	2.2
CORNELL UNIVERSITY	NY	Private	36	2.1
SEATTLE PACIFIC UNIVERSITY	WA	Private	34	2.0
EASTERN WASHINGTON UNIVERSITY	WA	Public	34	2.0
COLUMBIA UNIVERSITY UNDERGRADUATE ADMISS	NY	Private	33	1.9
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	MA	Private	33	1.9
WHITWORTH UNIVERSITY	WA	Private	31	1.8
UNIVERSITY OF CALIFORNIA BERKELEY	CA	Public	30	1.8
PACIFIC LUTHERAN UNIVERSITY	WA	Private	29	1.7
MIDDLEBURY COLLEGE	VT	Private	29	1.7
WHITMAN COLLEGE	WA	Private	29	1.7
CONCORDIA COLLEGE MOORHEAD MN	MN	Private	28	1.6
UNITED STATES AIR FORCE ACADEMY	CO	Public	27	1.6

*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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