

STUDENT SCORE DISTRIBUTIONS

Introduction

The May 2010 College Board AP Exams were taken by 1,845,006 students from 17,861 secondary schools. College and high school teachers, called Readers, who are familiar with college-level course demands, scored the free-response sections from the 3,213,225 examinations taken. Computers at ETS® scored the multiple-choice sections.

The Chief Readers, relying on their subject-matter expertise, statistical equating data, data from comparability studies, and historical trends, determine the score-setting thresholds for the 5-point AP score scale: 5 = extremely well qualified, 4 = well qualified, 3 = qualified, 2 = possibly qualified, 1 = no recommendation. Listed below are the Chief Readers who directed the scoring of the free-response sections of the May 2010 exams.

Summary Table of Students' Scores

The scores earned on the May 2010 AP Examinations are summarized in the form of score distributions shown in the table on the next two pages. For each exam, the table provides the number and percentages of students receiving each score, the total number of students, and the mean and standard deviation of scores.

Additional information

Released exam questions, scoring guidelines, and sample student responses for the free-response sections of AP Exams are available at AP Central® (apcentral.collegeboard.com). Entire released exams, with multiple-choice answer keys are available for purchase at store.collegeboard.com.

CHIEF READERS

Art History	Bob Nauman	University of Colorado - Boulder
Biology	John Lepri	University of North Carolina - Greensboro
Calculus	Michael Boardman	Pacific University
Chemistry	Larry Funck	Wheaton College
Chinese Language	Tao-chung Yao	University of Hawaii - Manoa
Computer Science	Jody Paul	Metropolitan State College of Denver
Economics	David Anderson	Centre College
English Lang. & Comp.	David Jolliffe	University of Arkansas
English Lit. & Comp.	Susan Strehle	SUNY - Binghamton
Environmental Science	Arthur Samel	Bowling Green State University
European History	Jeffrey Hamilton	Baylor University
French	Irene d'Almeida	University of Arizona
German	Johanna Watzinger-Tharp	University of Utah
Government & Politics: Comparative	Jean Robinson	Indiana University - Bloomington
Government & Politics: United States	Gary Copeland	University of Oklahoma
Human Geography	David Lanegran	Macalester College
Japanese Language	Laurel Rasplca Rodd	University of Colorado - Boulder
Latin	Mary Pendergraft	Wake Forest University
Music	Teresa Shelton Reed	University of Tulsa
Physics	Jiang Yu	Fitchburg State College
Psychology	Kenneth Keith	University of San Diego
Spanish Language	Gustavo Fares	Lawrence University
Spanish Literature	Hazel Gold	Emory University
Statistics	Allan Rossman	Cal Poly - San Luis Obispo
Studio Art	Herb Weaver	Bethany College
United States History	Ernie Freeberg	University of Tennessee
World History	Merry Wiesner-Hanks	University of Wisconsin - Milwaukee

STUDENT SCORE DISTRIBUTIONS*

AP Exams - May 2010

Exam Score	Art History		Biology		Calculus AB		Calculus BC		Calculus BC Calculus AB Subscore		Chemistry	
	N	% At	N	% At	N	% At	N	% At	N	% At	N	% At
5	2,691	12.4	32,280	18.7	52,148	21.2	39,012	49.4	40,276	51.0	19,721	17.1
4	4,946	22.9	26,130	15.1	40,418	16.4	12,164	15.4	15,308	19.4	21,304	18.5
3	5,642	26.1	26,530	15.4	44,376	18.0	14,218	18.0	11,193	14.2	22,266	19.3
2	4,028	18.6	24,394	14.1	27,590	11.2	4,573	5.8	4,531	5.7	14,635	12.7
1	4,336	20.0	63,178	36.6	81,335	33.1	9,031	11.4	7,690	9.7	37,151	32.3
Number of Students	21,643		172,512		245,867		78,998		78,998		115,077	
3 or Higher / %	13,279	61.4	84,940	49.2	136,942	55.7	65,394	82.8	66,777	84.5	63,291	55.0
Mean Score	2.89		2.65		2.81		3.86		3.96		2.76	
Standard Deviation	1.30		1.54		1.55		1.38		1.33		1.49	
Exam Score	Chinese Language (Total Group)		Chinese Language (Standard Group)**		Computer Science A		Economics - Macro		Economics - Micro		English Language	
	N	% At	N	% At	N	% At	N	% At	N	% At	N	% At
5	4,900	76.7	458	39.7	5,298	26.3	11,998	14.4	8,551	16.6	40,258	10.7
4	843	13.2	290	25.2	4,974	24.7	21,281	25.6	13,925	27.0	77,759	20.8
3	420	6.6	237	20.6	2,805	13.9	12,664	15.2	10,421	20.2	109,646	29.3
2	96	1.5	69	6.0	1,587	7.9	13,804	16.6	7,651	14.8	103,483	27.6
1	129	2.0	99	8.6	5,456	27.1	23,399	28.1	11,053	21.4	43,474	11.6
Number of Students	6,388		1,153		20,120		83,146		51,601		374,620	
3 or Higher / %	6,163	96.5	985	85.4	13,077	65.0	45,943	55.3	32,897	63.8	227,663	60.8
Mean Score	4.61		3.81		3.15		2.82		3.02		2.91	
Standard Deviation	0.84		1.26		1.56		1.45		1.39		1.17	
Exam Score	English Literature		Environmental Science		European History		French Language (Total Group)		French Language (Standard Group)**		German Language (Total Group)	
	N	% At	N	% At	N	% At	N	% At	N	% At	N	% At
5	28,642	8.1	9,006	10.4	13,007	12.7	2,464	11.5	950	5.9	1,338	24.8
4	67,605	19.1	19,559	22.6	18,854	18.4	3,223	15.1	2,052	12.7	1,079	20.0
3	106,751	30.2	14,719	17.0	35,432	34.5	6,104	28.6	4,745	29.4	1,244	23.1
2	115,503	32.6	15,660	18.1	11,543	11.2	4,510	21.1	3,925	24.3	1,005	18.6
1	35,280	10.0	27,706	32.0	23,793	23.2	5,056	23.7	4,479	27.7	723	13.4
Number of Students	353,781		86,650		102,629		21,357		16,151		5,389	
3 or Higher / %	202,998	57.4	43,284	50.0	67,293	65.6	11,791	55.2	7,747	48.0	3,661	67.9
Mean Score	2.83		2.61		2.86		2.70		2.45		3.24	
Standard Deviation	1.10		1.40		1.31		1.30		1.19		1.36	
Exam Score	German Language (Standard Group)**		Government & Politics Comparative		Government & Politics United States		Human Geography		Japanese Language (Total Group)		Japanese Language (Standard Group)**	
	N	% At	N	% At	N	% At	N	% At	N	% At	N	% At
5	333	9.2	3,059	18.1	26,529	12.5	6,663	9.7	942	45.9	252	21.0
4	759	21.0	3,438	20.4	28,215	13.3	11,311	16.5	214	10.4	155	12.9
3	1,028	28.4	3,554	21.1	53,869	25.4	14,112	20.6	484	23.6	416	34.7
2	862	23.8	3,791	22.5	50,813	24.0	11,910	17.4	156	7.6	141	11.8
1	637	17.6	3,022	17.9	52,255	24.7	24,401	35.7	255	12.4	236	19.7
Number of Students	3,619		16,864		211,681		68,397		2,051		1,200	
3 or Higher / %	2,120	58.6	10,051	59.6	108,613	51.3	32,086	46.9	1,640	80.0	823	68.6
Mean Score	2.80		2.98		2.65		2.47		3.70		3.04	
Standard Deviation	1.22		1.37		1.32		1.37		1.42		1.37	

* This table reflects 3,213,225 AP Exams taken by 1,845,006 students from 17,861 secondary schools

** Standard students generally receive most of their foreign language training in U.S. schools. They did not indicate on their answer sheet that they regularly speak or hear the foreign language of the exam, or that they have lived for one month or more in a country where the language is spoken.

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AP Exams - May 2010 (continued)

Exam Score	Latin Vergil		Music Theory		Music Theory Aural Subscore		Music Theory Nonaural Subscore		Physics B		Physics C E&M	
	N	% At	N	% At	N	% At	N	% At	N	% At	N	% At
5	1,394	21.4	3,372	19.5	3,387	19.6	3,468	20.1	9,969	14.8	4,536	32.0
4	1,151	17.6	3,006	17.4	3,054	17.7	3,027	17.5	12,438	18.5	3,580	25.2
3	1,569	24.1	4,093	23.7	4,036	23.4	4,068	23.6	17,586	26.1	1,860	13.1
2	1,162	17.8	4,553	26.4	4,553	26.4	4,420	25.6	12,553	18.6	2,475	17.4
1	1,247	19.1	2,243	13.0	2,237	13.0	2,284	13.2	14,766	21.9	1,740	12.3
Number of Students	6,523		17,267		17,267		17,267		67,312		14,191	
3 or Higher / %	4,114	63.1	10,471	60.6	10,477	60.7	10,563	61.2	39,993	59.4	9,976	70.3
Mean Score	3.04		3.04		3.05		3.06		2.86		3.47	
Standard Deviation	1.40		1.32		1.32		1.33		1.35		1.40	

Exam Score	Physics C Mechanics		Psychology		Spanish Language (Total Group)		Spanish Language (Standard Group)**		Spanish Literature		Statistics	
	N	% At	N	% At	N	% At	N	% At	N	% At	N	% At
5	8,605	26.9	34,887	19.6	31,888	26.9	5,416	12.5	1,979	11.5	16,681	12.8
4	8,062	25.2	47,237	26.6	32,606	27.6	9,856	22.7	3,510	20.5	29,108	22.4
3	6,630	20.7	35,538	20.0	20,514	17.3	8,730	20.1	4,908	28.6	30,472	23.5
2	4,686	14.7	22,592	12.7	16,873	14.3	8,834	20.3	2,847	16.6	23,599	18.2
1	3,990	12.5	37,454	21.1	16,451	13.9	10,620	24.4	3,892	22.7	30,039	23.1
Number of Students	31,973		177,708		118,332		43,456		17,136		129,899	
3 or Higher / %	23,297	72.9	117,662	66.2	85,008	71.8	24,002	55.2	10,397	60.7	76,261	58.7
Mean Score	3.39		3.11		3.39		2.78		2.82		2.84	
Standard Deviation	1.35		1.42		1.38		1.36		1.31		1.35	

Exam Score	Studio Art Drawing		Studio Art 2-D Design		Studio Art 3-D Design		United States History		World History	
	N	% At	N	% At	N	% At	N	% At	N	% At
5	2,161	14.4	2,339	11.3	325	10.2	42,633	11.0	16,410	9.8
4	2,897	19.3	5,462	26.4	534	16.8	72,844	18.8	25,963	15.5
3	5,853	38.9	6,769	32.7	1,123	35.3	88,239	22.8	39,932	23.8
2	3,473	23.1	5,258	25.4	982	30.9	100,045	25.8	40,630	24.2
1	643	4.3	871	4.2	218	6.9	83,655	21.6	44,854	26.7
Number of Students	15,027		20,699		3,182		387,416		167,789	
3 or Higher / %	10,911	72.6	14,570	70.4	1,982	62.3	203,716	52.6	82,305	49.1
Mean Score	3.16		3.15		2.93		2.72		2.57	
Standard Deviation	1.07		1.06		1.07		1.29		1.29	

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