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## College accounting testing program bulletin no. 15; Results of the spring, 1952, college accounting testing program, July 1952

American Institute of Accountants. Committee on Selection of Personnel

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THE AMERICAN INSTITUTE OF ACCOUNTANTS  
COLLEGE ACCOUNTING TESTING PROGRAM

Bulletin No. 15

RESULTS OF THE  
SPRING, 1952, COLLEGE ACCOUNTING TESTING PROGRAM

Prepared by  
Committee on Selection of Personnel  
21 Audubon Avenue  
New York 32, N. Y.

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Committee on Selection of Personnel

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Project Staff

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Arthur E. Traxler, Assistant Director  
Geraldine Spaulding, Test Program Supervisor  
Thomas Mahorney, Assistant Supervisor

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## COOPERATING INSTITUTIONS

Adelphi College  
Agricultural and Mechanical College of Texas  
University of Alabama  
Alfred University  
Allegheny College

University of Arizona  
Arizona State College  
Arkansas State College  
Ball State Teachers College  
University of Baltimore

Bakersfield College  
Beloit College  
Berry College  
Bloomsburg State Teachers College  
Brigham Young University

Brooklyn College  
Brown University  
Bryant College  
Bucknell University  
University of Buffalo

Business Training College  
Business University of Tampa  
Butler University  
University of California, Los Angeles  
Calvin College

Canisius College  
Catawba College  
Central Michigan College  
Central Missouri State College  
Chaffey College

Champlain College  
Chico State College  
Colby College  
Colorado College  
Colorado State College of Education

University of Colorado  
Concord College  
Davenport Institute  
Dearborn Junior College  
University of Delaware

University of Denver  
DePaul University  
Detroit Institute of Technology  
University of Detroit  
Drake University

Drexel Institute of Technology  
Duke University  
Duquesne University  
Emory University  
Fairfield University

Flint Junior College  
Florida Southern College  
University of Florida  
Fort Valley State College  
Franklin and Marshall College

Fresno State College  
Gannon College  
Grand Rapids Junior College  
Hampton Institute  
Hanover College

Hastings College  
Heidelberg College  
Hillsdale College  
Hobart College  
Hofstra College

College of the Holy Cross  
Hope College  
Howard College  
Husson College  
University of Illinois

Illinois Institute of Technology  
Illinois Wesleyan University  
Iona College  
Jackson Junior College  
Jamestown College

Kent State University  
University of Kentucky  
King's College  
Lake Forest College  
LaSalle College

Lawrence College  
Lehigh University  
University of Louisville  
Loyola University (California)  
Luther College

Lycoming College  
University of Maine  
Manhattan College  
Marquette University  
University of Maryland.

University of Massachusetts  
 Merrimack College  
 Miami University  
 University of Miami  
 Michigan State College

University of Michigan  
 Millsaps College  
 Mississippi State College  
 Montana State College  
 Muhlenberg College

University of Nevada  
 New Castle Business College  
 New Haven YMCA Junior College  
 University of New Mexico  
 Niagara University

University of North Carolina  
 North Texas State College  
 Northern Michigan College of Education  
 University of Notre Dame  
 Ohio Wesleyan University

Ohio University  
 University of Omaha  
 Peirce School of Business Administration  
 Pennsylvania Military College  
 Pennsylvania State College

University of Pennsylvania  
 University of Pittsburgh  
 Providence College  
 Queens College  
 Regis College (Colorado)

Regis College (Massachusetts)  
 University of Rhode Island  
 Rider College  
 Roanoke College  
 Rochester Junior College

University of Rochester  
 Rockhurst College  
 Roosevelt College of Chicago  
 Rutgers University, School of Business Adm.  
 Rutgers University, University College

St. Ambrose College  
 St. Edward's University  
 St. Francis College (Pennsylvania)  
 St. Joseph's College (Indiana)  
 St. Mary's University (Texas)

St. Michael's College (New Mexico)  
 St. Peter's College  
 San Diego State College  
 University of San Francisco  
 University of Santa Clara

University of Scranton  
 Seton Hall University  
 Siena College  
 University of South Carolina  
 University of South Dakota

University of Southern California  
 Southern Illinois University  
 Spencerian College  
 Spring Hill College  
 Springfield Junior College (Illinois)

State College of Washington  
 Stevens Business College  
 Strayer College of Accountancy  
 Susquehanna University  
 Syracuse University

University of Texas  
 Tufts College  
 Ventura Junior College  
 Virginia Junior College  
 Virginia Polytechnic Institute

University of Virginia  
 Wake Forest College  
 Walla Walla College  
 Washington and Lee University  
 Wayne University

Western Montana College of Education  
 Western Reserve University  
 Western State College  
 Wheaton College  
 William Jewell College

College of William and Mary  
 University of Wisconsin  
 Xavier University

## INTRODUCTION

The tests used in the sixth spring college accounting testing program, held during the period April 14-May 17, 1952, were similar to those in preceding programs. The tests consisted of Achievement Test, Level I, Form A; Achievement Test, Level II, Forms B and D; Orientation Test, Form A; and the Strong Vocational Interest Blank for Men. The Achievement Tests were emphasized, although the Orientation Test was used in a considerable number of classes and several colleges also administered the Strong blank.

In all, 173 colleges took part in this spring's program as compared with 185 in the spring of 1951. While the number of participating colleges was only slightly smaller this spring than last spring, the number of tests used was, partly because of decreased enrollments, considerably smaller. The numbers of the different tests given this spring and last spring were as follows:

<u>Test</u>	<u>Spring, 1952</u>	<u>Spring, 1951</u>
Orientation Test	2,251	4,734
Achievement Test, Level I	5,713	6,916
Achievement Test, Level II	1,940	3,502
Strong blank	516	1,113
Total	<u>10,420</u>	<u>16,265</u>

The decrease in total number of tests used amounted to about 36 per cent. This decrease was larger than the drop in college enrollments. As usual in this program, a good many colleges placed the tests on a voluntary basis. When participation in a testing program is optional, student participation is likely to be extensive if employment opportunities are few but less extensive if there are so many opportunities for employment that most students feel they can easily obtain positions without an objective record of their ability and achievement. Since employment opportunities are now good, voluntary taking of the tests is at a low point.

Recognition by all colleges of the guidance values of the tests and required student participation in all colleges giving the tests would materially strengthen the program.

Because of late testing and other factors, not all the tests listed in the above tabulation were included in the tables reported in this bulletin.



## SUMMARY OF TEST RESULTS

The norms for the College Accounting Testing Program were formerly based on the scores of all participating students, regardless of whether the testing was required or voluntary. Because it is believed that a voluntary group may not be representative unless it includes most of the students in a class, the Committee on Selection of Personnel decided at a recent meeting that classes in which the testing was voluntary should be excluded from the norms unless at least 90 per cent of the students participated.

In the following tables, separate distributions are shown for the norm group, which includes classes where the testing was required and classes in which 90 per cent or more of the students took the tests on a voluntary basis, and the out-of-norm group, which includes classes in which the testing was voluntary and in which less than 90 per cent of the students took the tests. It should be noted that the distinction between the norm group and the out-of-norm group applies to the preparation of norms at the end of this spring's testing program for use in the future. The report sent to each college as soon as its tests had been scored in the spring program was necessarily based upon norms which resulted from earlier testing programs and which included the scores of all students taking a particular form of each test in the earlier programs. Nevertheless, as may be inferred from a comparison of this spring's results with the earlier medians shown by the lines across the distribution columns, there is, in general, close agreement between the norms from earlier testing programs that were undifferentiated according to required or voluntary testing and the norms to be derived from the scores of students in colleges which required the tests or in which 90 per cent or more took part on a voluntary basis.

In order to simplify the following discussion of the various tables, the two groups will be referred to as the "required" and "voluntary" groups. It should be kept in mind that the "required" group also includes classes in which at least 90 per cent of the students participated on a voluntary basis.

Achievement Test, Level I. - Distributions of the scores of individual students and distributions of class medians of first-, second-, and third-year classes on Achievement Test, Level I, Form A, are shown in Tables I and II. It will be observed that the medians for the required-testing groups at the first- and second-year levels of study, as shown in Table I, are almost identical with the medians established through earlier testing. It will also be noted that the medians for the students in the first and second years who took the Level I test on a voluntary basis are likewise close to, although slightly above, the medians for the norm group.

In the third year of study, the number of cases is not large enough to lend itself to dependable comparisons. Both medians obtained this spring are somewhat below the earlier medians, although the difference is small in the case of the voluntary group.

Achievement Test, Level II. - Distributions of the scores of college seniors and distributions of class medians on Achievement Test, Level II, Forms B and D, are shown in Tables III and IV. On both forms of the test the medians for the required group are very close to the established norms. The medians made by the students who took the Level II test voluntarily are somewhat higher, but the groups are relatively small, and the placement of the medians may be accounted for as much by the selection of colleges included as by the voluntary nature of the testing. For both forms there is almost complete overlapping between the distributions for the required and voluntary groups.

Orientation Test. - Distributions of scores made on the Orientation Test, Form A, by the required testing groups at the various levels of study are shown in Tables V-VIII. The medians are consistently near the medians based on the norms established through testing in earlier spring programs. Except in the very small third-year group, the medians obtained this spring run a little below the established ones, but the differences are too small to be of much importance.

Distributions of Orientation Test scores of the voluntary testing groups at the different levels of study are shown in Tables IX-XII. The medians for the first-year students who took the test voluntarily are at, or very near, the medians based on the norms. The second-year medians run somewhat high and the third-year medians a little low, but the groups are so small that the results have no general significance. The seniors who took the test voluntarily are, on the average, a few points above the established medians, but again the group is rather small.

In general, the data shown in Tables I-XII indicate that the aptitude and achievement of this year's accounting students are virtually the same as the aptitude and achievement of accounting students in preceding years as measured by the Institute's tests.

The analysis of the results fails to support a hypothesis that it is only the better students who take the tests voluntarily and fails to show that it matters significantly whether the norms are based on scores resulting from required testing or on the scores of all participating students, including those who took the tests voluntarily. Nevertheless, it is probably desirable, for psychological reasons, to follow the practice of eliminating from the norms the classes in which less than 90 per cent of the students voluntarily took the tests. Colleges requiring the tests are likely to regard the norms, and particularly the distributions of class medians shown in the bulletin tables, with greater confidence if they are assured that their results are compared with results in other colleges where the tests are likewise placed on a required basis.

TABLE I

DISTRIBUTIONS OF SCORES OF INDIVIDUAL STUDENTS AND MEDIAN SCORES OF INDIVIDUAL COLLEGES ON ACHIEVEMENT TEST, LEVEL I, FORM A, IN CLASSES WHERE THE TEST WAS REQUIRED OR WHERE 90 PER CENT OF THE STUDENTS, OR MORE, TOOK IT ON A VOLUNTARY BASIS

Score	FIRST YEAR		SECOND YEAR		THIRD YEAR	
	Scores of Individual Students	Median Scores of Individual Colleges	Scores of Individual Students	Median Scores of Individual Colleges	Scores of Individual Students	Median Scores of Individual Colleges
111+			2			
108	3		4			
105	3		10			
102	7		9		3	
99	10		9		4	
96	15		15		2	
93	25		13		2	
90	33		14	2	4	
87	43		27		6	
84	65		26	2	2	
81	71	1	21	2	7	1
78	93		36	1	4	
75	98	1	35	5	6	
72	130	2	27	1	5	1
69	128	2	19	2	8	
66	153	2	32	2	3	1
63	190	4	23	1	6	
60	174	5	33	2	6	1
57	191	3	24		6	1
54	200	9	20	1	5	
51	236	10	18	2	6	
48	218	5	21	2	4	
45	199	6	15		6	1
42	175	6	19	1	2	
39	177	8	13		3	
36	165	1	13		5	
33	147	2	10			
30	140	4	11		3	
27	134		17		2	
24	106		6		1	
21	74		5			
18	71	1	7			
15	40		2		1	
12	43					
9	23		1			
6	16		1			
3	8					
0-2	11					
Total	3615	72	558	26	112	6
Q3	65.6	59.0	82.5	79.5	81.9	
Md	51.8	51.9	67.9	72.0	66.0	64.5
Q1	37.7	43.0	50.8	60.8	51.5	
Range	0-109	20.3-82.0	6-113	44.3-91.5	17-104	47.3-82.5
10 %ile	26.1	36.6	34.7	50.4	38.5	
90 %ile	78.2	67.2	94.4	86.1	92.9	

----Medians, spring 1949

TABLE II

DISTRIBUTIONS OF SCORES OF INDIVIDUAL STUDENTS AND  
 MEDIAN SCORES OF INDIVIDUAL COLLEGES ON ACHIEVEMENT TEST,  
 LEVEL I, FORM A, IN CLASSES WHERE LESS THAN 90 PER CENT  
 OF THE STUDENTS VOLUNTARILY TOOK THE TEST

Score	FIRST YEAR		SECOND YEAR		THIRD YEAR	
	Scores of Individual Students	Median Scores of Individual Colleges	Scores of Individual Students	Median Scores of Individual Colleges	Scores of Individual Students	Median Scores of Individual Colleges
114+			2			
111			1			
108						
105	1		2			
102	3		5		1	
99	1		5			
96	1		2		3	
93	4		10		5	
90	5		5		9	
87	7		8	1	4	
84	8		7	1	7	
81	7	1	5		7	
78	8		2		4	
75	15		9	1	7	1
72	11	1	6	1	4	
69	16		5	1	2	1
66	19		13	3	4	
63	24	4	5		7	
60	16	1	10		5	
57	27	3	5		4	
54	23	1	4		3	
51	35	2	6		2	
48	22	4	4		1	
45	26	1	4		3	
42	18	2	3	1	2	
39	20	1			1	
36	21		1			
33	14		1		1	
30	17					
27	8					
24	8		1			
21	10		1			
18	3					
15	3				1	
12	2					
9						
6	1					
3	1					
0-2						
Total	405	21	132	9	87	2
Q3	66.8	63.6	89.6		87.2	
Md	53.4	55.5	73.5	70.5	76.5	
Q1	41.0	48.9	60.9		62.3	
Range	4-105	40.0-82.5	22-115	44.3-87.5	15-104	69.0-76.3
10 %ile	30.8	43.7	49.7		50.1	
90 %ile	79.7	65.9	100.1		93.2	

----Medians, spring 1949

TABLE III

DISTRIBUTIONS OF SCORES OF INDIVIDUAL STUDENTS  
AND MEDIAN SCORES OF INDIVIDUAL COLLEGES  
ON ACHIEVEMENT TEST, LEVEL II, FORM B

Score	COLLEGES TESTING ON A REQUIRED BASIS PLUS CLASSES IN WHICH 90 PER CENT, OR MORE, OF THE STUDENTS VOLUNTARILY TOOK THE TEST		COLLEGES HAVING CLASSES IN WHICH LESS THAN 90 PER CENT OF THE STUDENTS VOLUNTARILY TOOK THE TEST	
	Scores of Individual Students	Median Scores of Individual Colleges	Scores of Individual Students	Median Scores of Individual Colleges
138+	1			
135				
132	1			
129	2		1	
126	3		2	
123	3		4	
120	11		2	
117	5		1	
114	16		2	
111	13		4	
108	8		4	
105	19		4	
102	16		3	
99	21	2	5	1
96	34	1	1	
93	26		5	
90	26	3	4	2
87	24	1	4	
84	30	2	4	1
81	30	1	2	1
78	27	5	3	
75	32	3	4	
72	24	2	4	
69	31	2	2	
66	26		1	
63	20	1	6	
60	19	1	2	1
57	18		4	
54	20		3	
51	13	1	4	
48	17		4	
45	10			
42	6			
39	6		1	
36	5			
33	8		1	
30	2			
27				
24	1			
21				
18-	1			
Total	575	25	91	6
Q3	96.8	89.3	105.9	
Md	81.2	79.5	87.4	88.5
Q1	65.7	73.9	64.9	
Range	19-140	51.8- 99.8	34-130	61.5- 99.0
10 %ile	51.3	64.5	53.3	
90 %ile	110.3	97.5	119.7	

----Median, combined spring programs, 1949 and 1950

DISTRIBUTIONS OF SCORES OF INDIVIDUAL STUDENTS  
AND MEDIAN SCORES OF INDIVIDUAL COLLEGES  
ON ACHIEVEMENT TEST, LEVEL II, FORM D

Score	COLLEGES TESTING ON A REQUIRED BASIS PLUS CLASSES IN WHICH 90 PER CENT, OR MORE, OF THE STUDENTS VOLUNTARILY TOOK THE TEST		COLLEGES HAVING CLASSES IN WHICH LESS THAN 90 PER CENT OF THE STUDENTS VOLUNTARILY TOOK THE TEST	
	Scores of Individual Students	Median Scores of Individual Colleges	Scores of Individual Students	Median Scores of Individual Colleges
100	1			
98			1	
96	4		2	
94	5		5	
92	5		5	
90	15		6	
88	7		4	
86	18		7	
84	26		9	
82	7		8	
80	19		8	
78	27		8	
76	17		3	1
74	18	1	5	
72	32		10	2
70	36	1	15	1
68	22	1	3	
66	43	6	6	
64	26	2	11	1
62	34		7	
60	30	2	12	1
58	26	2	9	1
56	18	3	9	
54	31	2	4	1
52	30	2	6	
50	20	1	5	1
48	27		8	
46	21	3	8	
44	26	1	4	
42	27	2	5	
40	18	2	2	
38	19	1	3	1
36	25		1	
34	22		5	
32	13	1	2	
30	14		1	
28	17	1		
26	13	1	1	
24	22		4	1
22	13	2		
20	15		2	
18	9		2	
16	6			
14	3		1	
12	5		2	
10	5			
8	6			
6	2			
4	5			
2				
0-1	3			
Total	853	37	219	11
Q3	71.3	65.8	80.1	
Md	57.1	55.5	65.2	61.0
Q1	39.6	43.3	51.5	
Range	0-100	23.0-	13-99	25.0-
		75.5		77.5
10 %ile	25.2	29.4	38.6	
90 %ile	82.8	67.8	88.6	

---Median, combined spring programs, 1950 and 1951

TABLE V

DISTRIBUTIONS OF SCORES OF FIRST YEAR ACCOUNTING STUDENTS AND  
 MEDIAN SCORES OF FIRST YEAR CLASSES ON ORIENTATION TEST, FORM A,  
 IN CLASSES WHERE THE TEST WAS REQUIRED OR WHERE 90 PER CENT,  
 OR MORE, TOOK IT ON A VOLUNTARY BASIS

VERBAL			QUANTITATIVE			TOTAL		
Score	Scores of Individ. Students	Median Scores of Individ. Colleges	Score	Scores of Individ. Students	Median Scores of Individ. Colleges	Score	Scores of Individ. Students	Median Scores of Individ. Colleges
99-100								
96						160		
93						155		
90			60			150		
87			58			145		
84	3		56			140		
81	2		54	7		135	1	
78	8		52	6		130	2	
75	7		50	8		125	2	
72	13		48	16		120	7	
69	10		46	13		115	10	
66	19		44	28		110	21	
63	19		42	22		105	15	
60	30		40	30		100	24	
57	33	2	38	33		95	33	
54	45		36	35	1	90	37	
51	43	1	34	67	1	85	46	2
48	47	1	32	65	1	80	61	1
45	65	3	30	58	5	75	56	
42	63	1	28	83	5	70	99	7
39	80	1	26	73		65	92	2
36	85	6	24	81	3	60	94	2
33	75	1	22	71	2	55	90	3
30	81	1	20	69	2	50	89	2
27	71	3	18	59	1	45	72	1
24	62		16	48		40	63	1
21	62	1	14	33		35	53	
18	59		12	43		30	24	
15	30		10	27		25	23	
12	18		8	21		20	20	
9	10		6	12		15	4	
6	3		4	12		10	3	
3	3		2	10		5	4	
0-2			0-1	16		0-4	1	
<b>Total</b>	<b>1046</b>	<b>21</b>	<b>Total</b>	<b>1046</b>	<b>21</b>	<b>Total</b>	<b>1046</b>	<b>21</b>
Q3	49.1	46.8	Q3	34.1	31.1	Q3	79.8	73.4
Md	37.7	36.3	Md	26.6	29.0	Md	64.1	68.8
Q1	27.6	33.8	Q1	19.3	24.2	Q1	49.6	57.1
Range	4-84	21.0-58.5	Range	0-55	19.0-36.5	Range	4-136	41.7-88.8
10 %ile	19.1	28.1	10 %ile	12.3	21.1	10 %ile	37.4	50.3
90 %ile	60.6	53.7	90 %ile	41.7	33.8	90 %ile	96.6	84.5

----Medians, combined spring programs, 1949 and 1950

DISTRIBUTIONS OF SCORES OF SECOND YEAR ACCOUNTING STUDENTS AND  
 MEDIAN SCORES OF SECOND YEAR CLASSES ON ORIENTATION TEST, FORM A,  
 IN CLASSES WHERE THE TEST WAS REQUIRED OR WHERE 90 PER CENT,  
 OR MORE, TOOK IT ON A VOLUNTARY BASIS

Score	VERBAL		Score	QUANTITATIVE		Score	TOTAL	
	Scores of Individ. Students	Median Scores of Individ. Colleges		Scores of Individ. Students	Median Scores of Individ. Colleges		Scores of Individ. Students	Median Scores of Individ. Colleges
99-100								
96						160		
93						155		
90			60			150		
87			58	1		145		
84			56			140		
81			54	1		135		
78	1		52	2		130		
75	2		50			125		
72	2		48	2		120	4	
69	1		46	3		115	1	
66	2		44	3		110	1	
63	3		42	5		105	2	
60	5		40	6		100	6	
57	7		38	8		95	7	
54	8		36	7	1	90	10	
51	8	1	34	11		85	10	1
48	6		32	10	3	80	7	1
45	13	2	30	18		75	11	1
42	11		28	6	1	70	15	1
39	10	1	26	9		65	14	1
36	14	1	24	11		60	12	
33	16		22	11		55	12	
30	10		20	7		50	12	
27	11		18	4		45	7	
24	4		16	4		40	3	
21	3		14	7		35	6	
18	3		12	3		30	3	
15	2		10			25		
12	1		8	2		20		
9			6	1		15		
6			4			10		
3			2	1		5		
0-2			0-1			0-4		
Total	143	5	Total	143	5	Total	143	5
Q3	52.2		Q3	36.6		Q3	87.6	
Md	41.3	45.8	Md	30.6	33.0	Md	70.8	77.5
Q1	33.3		Q1	23.2		Q1	57.0	
Range	12-78	38.3-52.5	Range	3-58	29.2-37.0	Range	30-122	67.7-87.5
10 %ile	27.4		10 %ile	16.2		10 %ile	46.6	
90 %ile	61.0		90 %ile	43.1		90 %ile	99.8	

----Medians, combined spring programs, 1949 and 1950



TABLE VII

DISTRIBUTIONS OF SCORES OF THIRD YEAR ACCOUNTING STUDENTS  
ON ORIENTATION TEST, FORM A, IN CLASSES\* WHERE THE TEST  
WAS REQUIRED OR WHERE 90 PER CENT, OR MORE, TOOK IT  
ON A VOLUNTARY BASIS

VERBAL		QUANTITATIVE		TOTAL	
Score	Scores of Individual Students	Score	Scores of Individual Students	Score	Scores of Individual Students
99-100					
96				160	
93				155	
90		60		150	
87		58	1	145	
84		56		140	
81		54		135	
78		52		130	
75		50		125	
72	1	48		120	1
69		46		115	
66		44	1	110	
63	1	42		105	
60	1	40	1	100	2
57		38		95	1
54	2	36	1	90	2
51	—	34	1	85	—
48	2	32	1	80	1
45		30		75	1
42	1	28	1	70	1
39	1	26	1	65	
36		24	1	60	
33	1	22		55	1
30		20		50	
27		18		45	
24		16		40	
21		14		35	
18		12		30	
15		10		25	
12		8		20	
9		6		15	
6		4		10	
3		2		5	
0-2		0-1		0-4	
Total	10	Total	10	Total	10
Md	52.5	Md	36.0	Md	92.5
Range	33-73	Range	25-58	Range	58-123

---Medians, combined spring programs, 1949 and 1950

\*This table includes results for classes in four colleges. Since none of the four classes had as many as five students, no distributions of class medians are presented.

DISTRIBUTIONS OF SCORES OF SENIORS IN ACCOUNTING AND MEDIAN SCORES OF SENIOR CLASSES ON ORIENTATION TEST, FORM A, IN CLASSES WHERE THE TEST WAS REQUIRED OR WHERE 90 PER CENT, OR MORE, TOOK IT ON A VOLUNTARY BASIS

Score	VERBAL		Score	QUANTITATIVE		Score	TOTAL	
	Scores of Individ. Students	Median Scores of Individ. Colleges		Scores of Individ. Students	Median Scores of Individ. Colleges		Scores of Individ. Students	Median Scores of Individ. Colleges
99-100								
96						160		
93						155		
90			60			150		
87	1		58	3		145		
84	4		56			140	1	
81	1		54	8		135	1	
78	6		52	9		130	3	
75	2		50	11		125	3	
72	4		48	13		120	12	
69	7		46	6		115	12	
66	15		44	15	1	110	7	
63	17		42	6		105	17	1
60	20		40	12	1	100	8	
57	19	1	38	30	3	95	15	2
54	19	4	36	16	1	90	32	1
51	14	1	34	20	3	85	30	3
48	28	3	32	18	1	80	27	4
45	21	2	30	20		75	21	
42	19		28	18		70	26	
39	18		26	18	1	65	19	
36	13		24	12		60	7	
33	12		22	6		55	6	
30	5		20	3		50	6	
27	6		18	6		45	3	
24	5		16	1		40		
21	1		14			35		
18			12	2		30	1	
15	1		10	2		25	1	
12			8	1		20		
9			6	2		15		
6			4			10		
3			2			5		
0-2			0-1			0-4		
Total	258	11	Total	258	11	Total	258	11
Q3	61.9		Q3	44.1		Q3	99.8	
Md	51.0	52.5	Md	36.0	37.0	Md	87.0	87.5
Q1	42.6		Q1	29.3		Q1	74.1	
Range	15-89	46.5-59.3	Range	7-58	27.5-44.5	Range	26-140	81.3-106.3
10 %ile	35.0		10 %ile	24.5		10 %ile	65.5	
90 %ile	68.8		90 %ile	50.9		90 %ile	117.6	

----Medians, combined spring programs, 1949 and 1950

TABLE IX

DISTRIBUTIONS OF SCORES OF FIRST YEAR ACCOUNTING STUDENTS AND MEDIAN SCORES OF FIRST YEAR CLASSES ON ORIENTATION TEST, FORM A, IN CLASSES WHERE LESS THAN 90 PER CENT OF THE STUDENTS VOLUNTARILY TOOK THE TEST

VERBAL			QUANTITATIVE			TOTAL		
Score	Scores of Individ. Students	Median Scores of Individ. Colleges	Score	Scores of Individ. Students	Median Scores of Individ. Colleges	Score	Scores of Individ. Students	Median Scores of Individ. Colleges
99-100								
96						160		
93						155		
90			60			150		
87			58			145		
84			56			140		
81	1		54			135		
78	2		52	2		130	2	
75	1		50			125	1	
72	1		48	3		120	1	
69	2		46	5		115	1	
66	4		44	3		110	1	
63	5		42	3		105	4	
60	2		40	10		100	3	
57	3		38	5		95	4	
54	12	1	36	7	1	90	5	
51	10		34	6		85	12	
48	7	1	32	14		80	16	2
45	12		30	11	4	75	10	
42	9	1	28	6		70	9	1
39	8	1	26	11	1	65	13	2
36	13	2	24	10		60	15	2
33	9		22	10	2	55	9	
30	15	3	20	10		50	15	2
27	9		18	13	1	45	11	
24	7		16	8		40	11	
21	10		14	9		35	10	
18	8		12	3		30	6	
15	6		10	5		25	2	
12	4		8	7		20		
9	1		6	1		15	1	
6	1		4			10	1	
3	1		2	1		5		
0-2			0-1			0-4		
Total	163	9	Total	163	9	Total	163	9
Q3	51.7		Q3	35.1		Q3	82.9	
Md	38.4	38.3	Md	26.8	30.3	Md	65.2	66.3
Q1	27.9		Q1	19.0		Q1	49.4	
Range	3-81	32.3-54.4	Range	2-53	18.3-37.0	Range	12-134	51.3-84.4
10 %ile	19.2		10 %ile	13.5		10 %ile	38.2	
90 %ile	62.6		90 %ile	41.9		90 %ile	95.9	

---Medians, combined spring programs, 1949 and 1950

DISTRIBUTIONS OF SCORES OF SECOND YEAR ACCOUNTING STUDENTS AND  
 MEDIAN SCORES OF SECOND YEAR CLASSES ON ORIENTATION TEST, FORM A,  
 IN CLASSES WHERE LESS THAN 90 PER CENT OF THE STUDENTS  
 VOLUNTARILY TOOK THE TEST

Score	VERBAL		Score	QUANTITATIVE		Score	TOTAL	
	Scores of Individ. Students	Median Scores of Individ. Colleges		Scores of Individ. Students	Median Scores of Individ. Colleges		Scores of Individ. Students	Median Scores of Individ. Colleges
99-100								
96						160		
93						155		
90			60			150		
87			58	1		145		
84	1		56			140	1	
81			54	2		135		
78			52	1		130		
75	1		50			125		
72	1		48	1		120	2	
69	2		46	2		115	2	
66	4		44	6		110	1	
63	1		42	2		105	2	
60	1		40			100	5	
57	2	1	38	2		95	1	
54	4		36	5	2	90	4	1
51	4		34	4		85	5	2
48	6	2	32	4	1	80	6	
45	4		30	4		75	6	
42	3		28	2		70	3	
39	5		26			65	2	
36	4		24	4		60	2	
33	1		22	2		55	2	
30	1		20	4		50		
27	1		18	1		45	2	
24	1		16			40	1	
21			14			35	1	
18			12			30		
15	1		10			25		
12			8			20		
9			6	1		15		
6			4			10		
3			2			5		
0-2			0-1			0-4		
Total	48	3	Total	48	3	Total	48	3
Q3	58.5		Q3	44.3		Q3	101.0	
Md	49.5		Md	35.0		Md	84.2	
Q1	40.8		Q1	27.0		Q1	73.3	
Range	15-85	48.0-58.5	Range	7-58	33.5-37.3	Range	38-143	85.0-92.5
10 %ile	35.4		10 %ile	21.4		10 %ile	57.0	
90 %ile	69.3		90 %ile	48.4		90 %ile	115.5	

----Medians, combined spring programs, 1949 and 1950

TABLE XI

DISTRIBUTIONS OF SCORES OF THIRD YEAR ACCOUNTING STUDENTS ON  
ORIENTATION TEST, FORM A, IN CLASSES\* WHERE LESS THAN  
90 PER CENT OF THE STUDENTS VOLUNTARILY TOOK THE TEST

VERBAL		QUANTITATIVE		TOTAL	
Score	Scores of Individual Students	Score	Scores of Individual Students	Score	Scores of Individual Students
99-100					
96				160	
93				155	
90		60		150	
87		58		145	
84		56		140	
81		54	1	135	
78		52		130	
75		50	1	125	
72		48	3	120	
69		46	1	115	
66		44	1	110	1
63		42		105	1
60	2	40		100	2
57	2	38	1	95	2
54	1	36	1	90	2
51	1	34	2	85	
48	1	32	2	80	1
45	3	30	1	75	1
42	3	28	3	70	5
39	1	26	3	65	2
36	3	24		60	1
33	1	22	1	55	1
30	1	20	1	50	1
27	1	18	1	45	2
24	2	16		40	
21		14	1	35	2
18	1	12		30	
15	1	10		25	
12		8		20	
9		6		15	
6		4		10	
3		2		5	
0-2		0-1		0-4	
Total	24	Total	24	Total	24
Q3	51.0	Q3	46.0	Q3	95.0
Md	43.0	Md	33.0	Md	73.0
Q1	33.0	Q1	27.3	Q1	60.0
Range	15-61	Range	14-54	Range	36-111
10 %ile	24.6	10 %ile	20.8	10 %ile	46.0
90 %ile	59.4	90 %ile	49.7	90 %ile	104.0

---Medians, combined spring programs, 1949 and 1950

\*This table includes results for classes in eight colleges. Since only one of the eight classes had as many as five students, no distributions of class medians are presented.

DISTRIBUTIONS OF SCORES OF SENIORS IN ACCOUNTING AND MEDIAN SCORES OF  
SENIOR CLASSES ON ORIENTATION TEST, FORM A, IN CLASSES WHERE LESS  
THAN 90 PER CENT OF THE STUDENTS VOLUNTARILY TOOK THE TEST

VERBAL			QUANTITATIVE			TOTAL		
Score	Scores of Individ. Students	Median Scores of Individ. Colleges	Score	Scores of Individ. Students	Median Scores of Individ. Colleges	Score	Scores of Individ. Students	Median Scores of Individ. Colleges
99-100								
96						160		
93						155		
90	1		60			150		
87	2		58	1		145		
84	1		56			140	1	
81	3		54	5		135	3	
78	1		52	2		130	2	
75	3		50	8		125	5	
72	7		48	7		120	3	
69	6		46	6		115	7	
66	9	1	44	9	1	110	8	
63	7	1	42	10	2	105	7	2
60	8	1	40	11	1	100	11	1
57	7		38	7	1	95	12	
54	9	2	36	5		90	12	4
51	8	1	34	11	2	85	9	
48	7		32	5		80	9	
45	9	1	30	3		75	6	
42	6		28	5		70		
39	5		26	2		65	3	
36	1		24	2		60	3	
33	1		22			55	1	
30			20			50	1	
27	2		18	2		45		
24	1		16	2		40		
21			14			35	1	
18			12	1		30		
15			10			25		
12			8			20		
9			6			15		
6			4			10		
3			2			5		
0-2			0-1			0-4		
Total	104	7	Total	104	7	Total	104	7
Q3	68.3		Q3	47.0		Q3	111.9	
Md	58.3	56.3	Md	41.3	41.0	Md	97.9	94.4
Q1	48.4		Q1	34.7		Q1	86.1	
Range	26-90	47.3-66.8	Range	13-58	34.0-44.7	Range	39-141	90.0-108.8
10 %ile	42.2		10 %ile	28.6		10 %ile	76.2	
90 %ile	75.6		90 %ile	51.4		90 %ile	125.6	

----Medians, combined spring programs, 1949 and 1950