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THE AMERICAN INSTITUTE OF ACCOUNTANTS ACCOUNTING TESTING PROGRAM

Bulletin No. 5

RESULTS OF ACHIEVEMENT TESTS AND ORIENTATION TESTS ADMINISTERED IN SCHOOLS OF BUSINESS OF NINETY-NINE COLLEGES AND UNIVERSITIES

Spring, 1948

Prepared by
Committee on Selection of Personnel
437 West 79th Street
New York 19, N. Y.

August, 1948

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I

INTRODUCTION

The nature of the College Accounting Testing Program was discussed in previous bulletins issued by the Committee on Selection of Personnel. Briefly stated, the program has two main purposes. These are (1) to obtain objective information about individuals which will assist schools of business of colleges and universities in admission, placement, and guidance and (2) to provide aptitude, achievement, and interest scores on graduating seniors that will be of assistance both to individual graduates in seeking employment and to prospective employers in evaluating the candidate for employment.

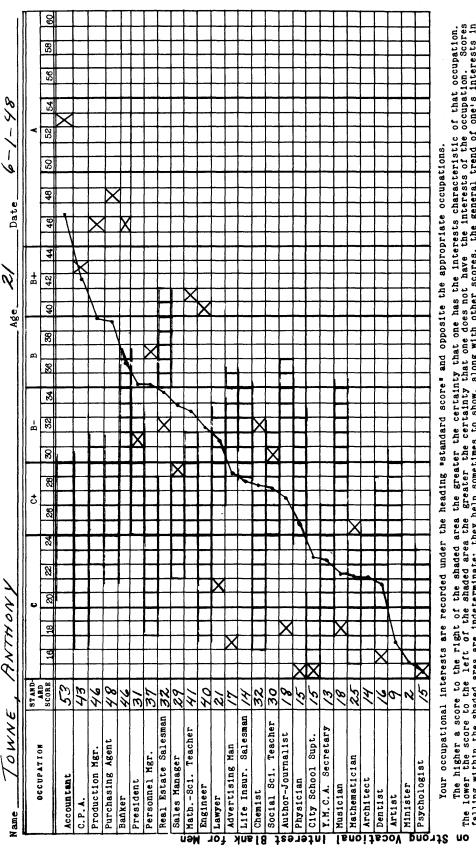
A test of orientation or aptitude for accounting and two levels of achievement tests were constructed and evaluated through research extending over a period of more than three years. Two forms of each test have been developed. These tests were used in the fall and spring testing programs during the academic years 1946-47 and 1947-48, and norms for various levels of the study of accounting were prepared for them. In addition, special accounting norms were developed for twenty-seven scales of the Strong Vocational Interest Blank for Men. This interest inventory may be used at any time of the year and at any age level from approximately seventeen years upward.

The achievement tests formed the main basis of the spring, 1948, program. The Level I Achievement Test was used in first—and second—year classes and in a few groups in their third year of accounting. The Level II Achievement Test was administered to accounting seniors near the point of graduation. A considerable number of colleges also gave the Orientation Test, although the larger use of this test was in the fall. Strong Vocational Interest Blanks were filled out by a few hundred students and returned for scoring and a profile report of the results.

Since the research phase of the project was still going on, and norms for the tests were still being collected, test materials were furnished without charge to the colleges. Except in the case of graduating seniors whose tests were scored free, a charge of ten cents a student was made for each Orientation or Achievement Test scored by the project office. These tests could be scored locally, if desired, and many of them were scored that way. The project office sample checked all local scoring before including the results in the norms. A charge of \$1.25 a student was made for scoring and reporting the results of the Strong blank.

The results of the Orientation Test and the Achievement Tests are reported in Sections 2 and 3. No summary of the Strong blank results is included in this bulletin. The following illustrative profile of interest scores for one student will show the type of report made on the Strong blank.

As explained in the last section of this bulletin, it will be necessary in future testing programs to charge colleges for the use of test materials other than those of an experimental nature.



The higher a score to the right of the shaded area the greater the certainty that one has the interests characteristic of that occupation. The lower the score to the left of the shaded area the greater the certainty that one does not have the interests of the occupation. Scores falling within the shaded area are indeterminate: they help sometimes to show, along with other scores, the general trend of one's interests in an occupational group. But generally they can be ignored. Standard scores of 45 and above are rated A, meaning one has the interests characteristic of men successfully engaged in the occupation. Ratings of B+, B, and B- also indicate possession of the interests characterizing men in those occupations, but at the same time they represent less and less assurance that the classification is correct. Report

About 15 per cent of men known to be successful rate B+; about 9 per cent rate B; about 4 per cent, B-; and about 2 per cent C+ and C. Occasionally a successful man rates below C+. On the other hand, many successful men rate B-, B, and B+, and a few rate A in occupations other than the one in which they are engaged.

The interest profile of an accountant or of a man considering the accountancy profession, should be compared with the median profile for 1,000 accountants as shown by the solid black line.

Men's interests change very little from 25 to 55 years of age. They change somewhat from 20 to 25 years and much more so from 15 to 20 years. Consequently, the younger the man, particularly below 20 years of age, the less certainly can his interests be identified in terms of some occupation. Such changes in interests as take place are more likely to result in higher ratings than the reverse. The ratings from this test should not be viewed as conclusive; they are not guaranteed as correct. Instead they should be viewed as meraly suggestive and to be considered in the light of all other information bearing upon one's vocational choice. Occupations rated A and B+ should be carefully considered before definitely deciding against them; occupations rated C, C+, and B- should be carefully considered before definitely deciding against them; occupations are reported on here.

Median Scores of 1,000 Accountants (200 Partners, 200 Managers, 200 Seniors, 200 Seni-Seniors, 200 Juniors)

SUMMARY OF TEST RESULTS

Scores obtained on the various tests employed in the spring, 1948, testing program by accounting students in the participating institutions are shown in Tables I through V. The total number of students included in each distribution is indicated at the bottom of the distribution columns, together with the range of raw scores, the medians, and the Ql and Q3 scores. The tenth percentile and nintieth percentile scores also are indicated for each distribution. The medians and interquartile ranges are shown graphically by heavy black lines drawn adjacent to the distributions.

Achievement Tests. Table I shows the distributions of total scores on the Achievement Test, Level I, Form B. The scores are distributed separately by year of study. As in previous testing programs, wide ranges of achievement are evident. Scores for first-year accounting students on the Level I, Form B, test range from zero up to within ten points of a perfect score, this test having 178 items. The range of scores lessens somewhat with successive advance in year of study. Although there is much overlapping in the distributions, the median scores tend to increase with year of study. It is interesting to note that the upper limit of raw score range decreases with level of study. That is, the top student in the first-year distribution surpasses all of the second- and third-year groups, while the top student in the second-year distribution surpasses all of the third-year group.

Scores of seniors on the Achievement Test, Level II, are distributed in Table II. There are separate distributions for Forms A and B. Both Form A and Form B of the Level II test have 150 possible points. Although no attempt was made to equate the groups taking the separate forms, no specific selection factors operated in choice of form of the Level II test. Hence, one may infer from the differences in medians on the two forms that the Form B test may be slightly more difficult than Form A. The range of scores is considerably wider in the Form A distribution. The lowest score on this form of the test is some fifteen points less than the lowest score made on Form B, while the highest score on the II-A test is just two points less than a perfect score. Scores on the II-B test range to within twelve points of a perfect score. The wide ranges of achievement at the senior level are somewhat startling in that normal elimination throughout the four years of study is expected to limit the range of achievement by the time a full course of study is completed.

Orientation Test. More than 8,000 first-year accounting students were administered the Orientation Test in the spring, 1948, program. The majority of the group took Form B of the Orientation Test. Smaller numbers of second-year students and seniors also took Form B.

Orientation Test, Form B, results are distributed in Tables III and IV. The verbal and quantitative scores are distributed separately by year of study in Table III, and total scores are distributed by year of study in Table IV. Possible ranges of scores on the Orientation Test are from zero to 100 on the verbal section, zero to 30 on the quantitative section, and zero to 130 on total score. Following the pattern of achievement test distributions, the ranges of Orientation Test scores are quite wide. The range for the first-year group on verbal score extends from

zero to 91, just nine points below a perfect score. The senior group displays an almost identical range in verbal score, while the distribution for the second-year group does not range so low, but extends to about the same upper limit as the other two groups. The entire possible range of quantitative scores is found in the distribution for first-year students. The second-year and senior distributions each range upward to perfect scores, but the poorer students in each distribution surpass the lower part of the first-year group. These wide ranges of verbal and quantitative scores are reflected in the total score distributions. It is interesting to note that although the Orientation Test is designed to measure aptitude for accounting, the median scores increase with year of study, suggesting that scores on this test are affected somewhat by extent of formal study of accounting.

Table V shows the distributions of part and total scores on Form A for the Orientation Test taken by 949 first-year accounting students in the spring, 1948, program. In comparing this table with the distributions of Form B scores, for first-year accounting students, it will be found that the median scores on the Form B test tend to run higher throughout the test. This supports the conclusion made in a previous studyl of these two forms that the Form B test is somewhat easier.

I"The College and Professional Accounting Testing Programs: Results of Tests in Schools of Business of Fifty-Seven Colleges and in Fifteen Public Accounting Firms" page 4.

TABLE I

DISTRIBUTIONS OF TOTAL SCORES ON ACHIEVEMENT TEST,
LEVEL I, FORM B

Score	lst year	2nd year	3rd year
177-178 176 176 172 168 1614 160 156 152 1148 1140 136 132 128 120 116 1100 96 92 88 80 76 72 68 614 40 33 28 214 40 36 22 16 18 4 0-3	1 35 9 13 22 23 49 59 74 118 150 182 230 282 355 451 483 5143 524 571 568 5144 510 416 436 349 301 292 210 162 129 105 71 61 38 12 10 6	1 26 8 18 23 40 42 58 86 91 97 97 97 98 107 97 98 107 97 98 107 97 98 107 97 98 107 97 98 107 97 98 108 108 108 108 108 108 108 108 108 10	2213 77477121805111261766816 41 11
Total	9651	1894	198
Q3	96.8	115•3	120.8
Md	78.6	95•7	105.9
Q1	59.4	74•5	87.1
Range	0-168	9 – 164	38-161
10%ile	41.9	56.5	70.9
90%ile	111.6	130.2	137.3

TABLE II

DISTRIBUTIONS OF TOTAL SCORES ON ACHIEVEMENT TESTS,
LEVEL II, FORM A, AND LEVEL II, FORM B (SENIORS)

		(522.20.0)
Score	II-A	II-B
150 147 144 138 139 120 121 120 120 121 120 120 121 120 120		
7147	1	
11.7	2	
747	2	5
130	3 1	<u> </u>
135	0	1
132	12	4
129	16	5
126	18	8
123	<u> </u>	6
120	18	12
117	20	17
11),	17	27
111	18	32
108	28	33
105	22	, 36
102	20	42
99	26	46
96	25	40
93	31	47
90] 31 ├	62
87	2 36 12 16 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	1 1 4 5 8 6 12 7 7 22 33 6 12 6 9 4 6 12 7 27 23 33 6 12 6 9 14 12 13 18 7 6 4 2
84	19	47
81	21	48
78	22	49
7 5	29	38
72	22	38
69	n i	45 1
66	21 '	37
63	15	34
60	n	27
57	19	16
54	10	19
51	10	יוֹנ
148	16	21
1,5	10	13
42	9	18
39	6	7
36	ıı l	6
33	9	<u>),</u>
30	. 5	$\vec{2}$
27	5	ī
24	i	_
21	3	
18	2	
15	3	1
12	1	
9	1	
6	3	
24 21 18 15 12 9 6 3 0 -2		
0-2	ı	
		^
Total	653	958
Q3 14d	109.0	101.0
14d.	90.1	86.6
ੌ ਹੈ	67.8	70.3
Range	111;8	16-138
10%ile	46. 6	55.4
90%ile	124 . 4	112.6

TABLE III

DISTRIBUTIONS OF SCORES ON PART I, VERBAL, AND PART II, QUANTITATIVE,
ON ORIENTATION TEST, FORM B

		VERBAL				NTITAT	
Score	lst yr.	2nd yr.	Senior	Score	lst yr.	2nd yr.	Senior
99-100 99-96-99-99-99-99-99-99-99-99-99-99-99-9	14 12 25 13 19 133 192 21 133 192 21 14 15 17 17 17 11 17 17 17 17 17 17 17 17 17	13144498878971971859684341	2 4 4 7 13 13 20 14 17 20 16 20 11 11 11 12 13 13 14 14 15 16 16 17 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	30 29 27 26 21 20 21 20 11 11 11 11 10 9 8 7 6 5 4 3 2 1 0	18 25 72 40 147 1957 2379 3383 368 417 433 3405 347 180 217 180 132 17 180 132 17	2223058893489722313	4767916681730041147166825632122
Total Q3 Md Q1 Range	7196 51.3 39.1 28.0 0-91	199 63•9 52•0 42•4 15–90	263 68•0 56•7 43•6 0 - 90	Total Q3 Md Q1 Range	7196 19•6 14•9 10•8 0 - 30	199 23•0 19•3 14•6 6–30	263 24.0 20.9 16.6 4-30
10%ile 90%ile	18.9 63.3	30.0 74.0	33 . 1 76 . 7	10%ile 90%ile	7•7 23•4	12.4 25.9	12.4 26.7

TABLE IV

DISTRIBUTIONS OF TOTAL SCORES ON ORIENTATION TEST, FORM B

Score	lst year	2nd year	Seniors
128-130 124 120 116 112 108 100 96 98 814 80 76 76 86 64 60 55 144 10 36 32 22 16 12 8 10 10 10 10 10 10 10 10 10 10 10 10 10	6 12 25 32 49 716 159 187 204 276 343 347 514 515 539 433 353 353 353 147 171 131 57 33 14 3	12258461214948171254676 5	1 555 12 13 19 16 21 28 11 11 12 13 12 13 13 14 7 11 2 3 2 3 2 3 2 1 1 1 1 1 1 1 1 1 1 1
Total.	7196	199	263
Q3	68•7	84•4	89•9
Md	54•0	70•7	77•2
Q1	40•2	58•3	61•3
Range	2 -117	29 – 119	5–120
10%ile	26.8	45 .3	47.7
90%ile	82.9	98 . 1	100.6

TABLE V

DISTRIBUTIONS OF SCORES ON PART I, VERBAL, AND PART II, QUANTITATIVE, AND TOTAL OF ORIENTATION TEST, FORM A (FIRST YEAR)

Score	VERBAL	Score	QUANTITATIVE	Score	TOTAL
99-100 963 977 818 818 818 818 818 818 818 818 818 8	11312575751156348855406813275384417421	30 29 28 27 26 22 21 20 18 17 11 10 98 76 54 32 10	25474 1311168924535658707142392182967	128-130 124 120 116 112 108 104 100 96 92 88 84 80 76 72 68 64 60 55 28 24 20 16 12 8 8	2 2 2 1 10 8 9 17 20 5 31 45 86 7 81 97 8 7 3 1 5 4 4 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Total	949	Total	949	Total	949
Q3	47•4	Q3	16.8	Q3	62•7
Md	35•4	Md	13.4	Md	48•8
Q1	23•9	Q1	10.1	Q1	36•5
Range	2–91	Range	0-29	Range	2-113
10%ile	18.9	l0%ile	6•7	10%ile	27.6
90%ile	58.4	90%ile	20•3	90%ile	74.9

RESULTS OF ACHIEVEMENT TESTS AND ORIENTATION TESTS IN INDIVIDUAL COLLEGES

Tables VI through XIV show the scores of the students in the participating institutions on the Achievement Tests and the Orientation Test, distributed separately by college. Distributions are identified by code numbers at the top of the tables. Each college is informed of its own code number. The same code number applies throughout all the tables in which the college appears.

As with the summary distributions, the individual college distributions are in terms of raw scores listed near the margins of each chart. The medians and the upper and lower limits of the middle 50 per cent of the distribution of scores for the entire group of students at each tabular division are shown by broken horizontal lines across the table. The median and interquartile range for each individual distribution can be compared readily with these "national" norms. As in the summary distribution table, the short solid horizontal line adjacent to the distribution locates the median, while the vertical solid line marks the range of scores for the middle 50 per cent. The total number of students included in each distribution, the range of raw scores, the median, the Q1 and the Q3 scores are listed under each distribution.

Individual distributions of scores on Achievement Test, Level I, Form B, are shown in Tables VI through VIII, for first—, second—, and third—year students, respectively. Distributions of scores of seniors on Achievement Test, Level II, are shown in Tables IX and X. Table IX shows results for Form A and Table X indicates results for Form B of the Level II test. Distributions of scores of first—year accounting students on the Orientation Test are shown in Tables XI and XIV. The results for Form B of this test are distributed in Table XI by individual schools, while Table XIV shows individual distributions for Form A of the test. Orientation Test, Form B, results for second—year students and seniors are shown in Tables XII and XIII, respectively.

Since it is recognized that each participating institution will be interested in determining the standing of its own students at each year of study with respect to the other colleges participating in the program, every effort has been made to eliminate elements of selection in testing students at a particular school. While there are some instances of testing on a voluntary basis, the large majority of distributions represent complete testing of all students at the particular level of study. Some element of selection may be injected when testing is on a voluntary basis in that poorer students may not wish to submit to testing. In general, however, comparisons yielded by these tables conform with results of various studies of differences in aptitude and achievement among schools and colleges widely distributed geographically.

TUTPER LY	

DISTRIBUTIONS OF SCORES MADE ON ACHIEVEMENT TEST, LEVEL I, FORE B, BY FIRST-YEAR STUDENTS OF ACCOUNTING IN SIXTY-THREE COLLEGIS	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 10 41 12 13 14 15 16 17 18 19 50 51	51. 52 53 5h 55 56 57 58 59 60 61 62 63
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
b b	1
*Elistributions of less than fifteen cases were excluded.	Range

TABLE VII

DISTRIBUTIONS OF SCORES MADE ON ACHIEVEMENT TEST, LEVEL I, FORM B, BY SECOND-YEAR STUDENTS OF ACCOUNTING IN TWENTY COLLEGES

										-	· ·										
177 - 178 176	2	61,	12	15	66	65	30	28	36	34	67	58	52	39	514	37	1111	62	63	68	177 - 178 176
177-178 176 176 178 168 164 160 156 152 148 140 136 132 128 120 116 100 96 88 80 76 60 56 52 48 40 36 32 82 20 16 80 60 66 56 52 88 40 60 66 60 66 60 66 60 66 60 60 60 60 60	1 2 5 3 4 3 6 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1242234315622311	1 1 2 2 3 3 7 7 9 8 7 10 10 10 3 1 1 1 1	2 1 35 3 1 4 7 31 1	1 1 2 6 4 1 1 7 6 1 1 7 9 9 3 3 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	1	13 1552342773563422 21	2123 415222467156411413	1 312 22 2 2 31 1 11122 2 2 2	1 2 2 1 4 2 1 4 	21 221556567595163766442 412 1	1 13 15446385426566262611 1	1 2 4416 97 358 11508 78 47 47 3522 21 1	12 3 353143233 342113 1	12312133423623533211	31 218570538455678794546122 1	1 2 2 2 5 9 5 5 12 20 22 8 8 33 25 1 14 7 35 7 27 17 16 9 10 20 6 9 7 1 2 2 1 1 2	1 1 2 2 2 2 2 1	1 1 1 1 2 2	1 1 21 458533323447762252112	177-178 176 172 168 164 160 156 152 148 144 140 136 132 128 124 120 116 112 108 104 100 92 88 84 80 76 - 72 68 64 60 56 52 48 44 40 36 32 28 214 20 16 12 8 4 0-3
Total Q3 Md Q1 Range	33 135.7 126.0 117.0 64-158	42 137.0 124.0 113.0 93-153	121 134.1 119.8 108.5 56-164	31 134.6 119.5 113.6 97-151	120 131.4 118.3 105.8 68-158	17 123.7 117.0 108.5 74-156	68 120.0 103.4 90.0 62-144	68 120.8 96.6 85.1 45-149	31 114 .5 95.3 63.5 37 - 140	21 103.0 94.0 82.3 68-120	128 110.0 93.9 77.1 32-150	85 110.5 93.0 77.5 37-153	137 111.7 91.0 72.3 15-156	48 105.6 89.3 68.0 38-129	52 104.0 87.3 73.6 9-128	149 107.8 87.3 69.9 30-150	535 104•2 84•9 67•1 10–160	21 92.8 78.0 58.5 36-108	20 92.0 67.0 60.0 36–124	87 85•6 60•7 44•4 14–134	Total Q3 Md Q1 Range

*Distributions of less than fifteen cases were excluded.

TABLE VIII

	DIS	TRIBUTIONS	OF SCOR	ES MADE ON TUDENTS OF	ACHIEVEM	ENT TEST,	LEVEL I,	FORM B,	BY THIRD-	
	2	65	69	64	30	NG IN NII 37	8 8	.5 54	21	
177-178 176 172 168 164 160 156 152 118 114 110 136 132 128 124 120 -		1	1	1 1 1 2	1 3 1 3 1 2 3 1 3 1	1 2 3 1 3 2 1 5 1 5	 1 	1 2 1 1- 3 1 5 3	1 	177-178 176 172 168 164 160 156 152 148 144 140 136 132 128 124 120 116 112 108 104 100
96		.		, 2	2 2 1	1 2	ı	2 4 5	- 4 3 4	96 92
92 88 84 –	1_							1	4	88
80 76 72 68 64						2 - 2 - 2 - 2 - 1		31 2 2 1 1	6 5 2 4 5	96 92 88 84 80 76 72 68 64 60 56 52 48 44 40 36 32 28 24
60 56 52 48 44					1			2	1 1	52 48
40 36 32 28 24 20 16 12 8 4					1	1				20 16 12 8 4 0-3
Total Q3 Md	5 138.0	7 134.0	1	11 120.7	29 130.3 118.0	37 124•7	2	111.4 111.4	63 108 .1	Total Q3
Ql Range	89-160	103-152	132	102-143	104.5 38-161	109.2 92.5 41-158	98-119	98.5 85.0 53 -151	91.5 77.5 48 -1 40	Md Ql Range

150 11/7	70	35	3	61,	65	32	6	DIS 144	TRIBUTIONS 9	S OF SCOR	es made o 37	n achieve 72	MENT TEST 2	TAI , LEVEL 3 30	BLE IX I, form A	, ey seni 49	ORS IN AC	COUNTING :	IN TWENTY 19	Y-EIGHT C 10	OLLEGES 53	73	50	74	33	68	145	36	150
150 147 144 141 138 135 132 129 126 123 120 117	1	2	1 1 1	1 2 46 3	1	1	1		1	·1 1	1	1		1 1 1	1	,	1		3	1	1	1	1	1					147 144 141 138 135 129 126 123 120 117 111
111 111 108 - -	11-	2 . 1 1	_ 2 2 1 1	- 3 - 3 - 2 - 4	1 1	1	2	1	1 2 4	1	1	2 3 1	_ <u>1</u>	1 1	2 1 h	1 2 2 1		1	2 -	2 1 2 5 1	<u>1</u>	1 3 1		1 3 1 1-		1 	1	- - -	- 108
105 102 99 96 93 90 –	1	2	1 1 1	6 2 3 3 2 2	1 1 1	- 1 2 	- 1 1 - 1	- 2 1-	- 3 2 2 4	- 1 - 1 1	- 3 2 1 2	- 1 - 3	1 1_	2 1 1 3	3	1 1 1 1	2 _	1	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 4 2 1 3	2 1 2	2 1 2 1 4 3	1 1	1 2 1 3 - — 3	1	2 1 	2 1 1 -	2 2 _	105 102 99 96 93 - — 90
81 81 78 75 72 69	1	1		1 3 2 5 2		1	2	1	. 3	2	1 1 2 1	3 1	1	1 1 2	1 2	1 2 1	2 1	1	1 2 1	- 7 2 4 2 4 2	1	- 5 2 3	1 _	3 1 1 7 2 5	1 - 1	1	1 2	ı	81 81 78 75 72 69
63 63 60 57 51 51		1		1 3 1 2 3 1			- -	1	1 1	1	1 -	1		3 1	1	1		1 - 1	1 1	2 3 2 3 2	 	2 1 4 1 2	1-	35	1	1 2	1	1 1 1	66 63 60 57 51
45 42 39 36 33				1	1	1			1	1	1	1		1	1 1	1	,	1	1	1 3 2 2 2 1	1	2 1 2 1	1	1 1 2 1	1	1	1 1 1 3	1 1	72 96 63 63 63 57 55 51 85 83 83 33 33 32 7
21 21 18 15 12									1		1					1				1	1	1 1 1	1	2 1 1		1	2 1 1	1	27 24 21 18 15 12
6 3 0 – 2												1											1					1	6 3 0–2
Total Q3 • Md Q1 Range	7 121.5 82-140	12 120.0 60–130	14 118.5 90-137	75 121.9 101.3 77.3 111139	7 103•5 50–130	8 102.0 47-133	9 100.5 72-134	7 100.5 59-122	35 114.9 99.8 74.8 23-132	99.0 31-132	2l; 106.5 96.0 81.0 27-13l;	38 111.5 93.0 76.5 8-134	5 91.5 75 - 111	26 107.3 91.5 74.3 39-141	27 109•7 90•5 70•1 35-130	22 111.8 90.0 64.5 17-128	7 88.5 76–127	11 87.8 50–125	23 99 •8 87 •8 65 • 3 34 – 128	90 103.9 84.9 60.8 27-142	19 93.8 82.5 56.3 15-138	55 96.8 80.3 53.6 14-129	10 76•5 7–135	64 92.0 76.3 59.4 20-133	8 70•5 38–107	13 67.5 11-127	29 83•3 65•3 39•8 13-114	16 84.0 51.0 37.5 1-95	Total Q3 Md Q1 Range

*Distributions of less than five cases were excluded.

*										DISTRIBUT	IONS OF S	SCORES MAI	DE ON ACH	IEVEMENT	TEST, LEV	TABLE X	RM B, BT	seniors i	n accounti	NG IN TH	r ty – T hrei	COLLEGE:	3										
150	25	75	76	37	77	48	1111	15	40	12	69	78	70	79	28	80	21	9	66	61	6	7	10	51	45	54	49	24	50	81	22	82	150
147 144 141 138 135 132 129 126 123 120 117 111, 111, 2 108 1 105 1	1 1 2 1 3 2 4 2	2 2 1 3 2 2 2 3	2	1 2 1 1	2 1 2 5 2	31222	1	1 1 2	1 1 2 1 2 1 2	1 1 1 2 3 7 3	1 1	1 1	1	1 1 2 2	1 2 1 2 2 2	1 1 1 1	2 1 5 2 3	1 2 1 3 2	5 3 3 3	1 1	1	, 1	1 2 1 2	1	1 1 1 3 2.	2	1	1 1	1	1	2		147 144 138 135 132 129 126 123 120 117 114 111 108 105
99	1 2 1 2 1	3 3 1 1	1 2	4 2 2 2 1 1 1 1 1 1 1	6 1 2 1 5 1 2 1 2	2	- 2 - - 1 - 2	1 1 - 2 1 1	- 3 2 1	- 4 45 34 14 45	- 1 ₃ -	2 2 2 2 1	- 1- 	- 2 - 2 - 1 2	2 2 1 - 1 2 1	- 1 - 2 	- 1 1 1 1 1 3 5 1 7	1 1	555299963	3 6	1 = -1= 2 1	1 lu	9 6 3 6 4 - 1 6 3	1 1 - 1	- 1 1 2 - 2 - 2	1 1 - 4	1 - 1 - 3 2	1 1 - 1	1	2 2 1	1 1 3 6	1 3	99 96 93 90 87 84 81 78
72 69 – – – 66 63 60 57 54 51	1	3		3	1 1	²	 		2 -		1_	1	1	²	3 1	1	1- 3 2	2 3		2 1 1		1 1 1	45 7 3 4 3 2 2 2	1 2	1 3 3 1 1 1 1 1 1 1	5 3 1 1	2 1 1 1 1 1 1 1 1 1	$\frac{1}{2}$ $\frac{1}{2}$	3 - 1 3 1	- 2 4 1 1	- 4 - 3 - 5 5 3	2 3 - 1 3 1 4 -	69 66 65 65 55 55
48 45 42 39 36 33 30 27 24	1	1				1								1	2 2 1		1	2 1 1	1	1		1	1 2	2 1 1	.2		1		2	3 2 2	5 2 1 1	4 2 2 3 3 3 1	44 33 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2
18 15 12 9 6 3																																1	0-
otal 8 Q3 Md 105.0 Q1 ange 84-113	31 112.3 104.3 89.6 44-126	33 113.6 100.5 88.9 44-125	10 100.5 80-128	23 109•9 99•4 91•1 64-127	39 105.2 97.9 85.1 60-122	16 108.0 97.5 72.0 44-112	7 96.8 78–127	15 111,.4 94.5 80.8 78-123	17 107.3 94.5 84.8 70-118	70 106.5 93.6 77.7 51-133	9 92•5 72–11 9	16 97•5 91•5 79•0 61-119	91.5 60-112	2/ ₄ 103.5 91.2 82.5 36-121	33 106.1 89.3 67.3 34-138	17 101.6 89.3 69.8 54-123	147 107.3 88.5 74.1 146–133	32 103.5 88.5 69.0 44-129	100 96.0 87.3 78.0 41-116	27 89•3 84•8 65•1 40–118	8 84.0 76-110	27 90.9 83.3 69.8 47-121	82 98.3 83.0 70.1 41-130	17 92.3 82.5 54.8 34-129	30 102.8 82.5 67.5 42-116	33 92.6 80.6 70.4 56-113	21 86.3 78.8 63.8 33–130	14 76.5 55 - 133	17 86.3 73.5 61.3 49-109	25 86•3 69•4 50•3 43–116	50 79•3 66•0 55•5 27 - 115	34 69.5 54.8 42.8 16-93	Tota Q3 Md Q1 Ran

*Distributions of less than five cases were excluded.

TABLE XI

DISTRIBUTIONS OF SCORES MADE ON ORIENTATION TEST, FORM B, BY FIRST-YEAR STUDENTS OF ACCOUNTING IN THIRTY-FIVE COLLEGES

112 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	128-130 124 120 116	83	23	2	31	814	9	80	43	3	64	19	24	7	8	85	86	75	59	87	կ2	6	5	ſή	314	68	1,6	61	36	10	140	88	55	33	18	54
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	116 112 108 104	3 6 9 11	1 1	1 1 2	7 7	1	1	1	2	1 1	1			1 1 1		1 2 3		1 4 3		1 2 4							1		,	1		1				1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	96 92 88 84	22 35 36 46	1 4 3	1 3 2 3	7 12 9 10	2 6 10 13	2 1 8 2 8	2 1 3 3	1 5 3	2 2 6 11	6 9 18 21	2 1 1 2	1 3 1	1 2 6	1	10 3 9 15	1 1 1	5 13 12 12	3 1 4	10 15	1	2 2 3 3	1	3 4 3	1	2	3 3 1	3	1	2 2 2 2	1	2 2 1	1		1 1 4	2 2 2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	76 72 68	51 58 - 52 - 11	3 4 6 - 3	2 7 3 6	11 17 - 16 - 18	21 14 - 24 - 25	19 10 15 18	6 - 17	- 4 - 4	16 25 22 25	20 24 37 39	2	1	7 14	1 5 - 4	21 29 - 43 -	- 1	24 30 29 20	2 - 8	30 27 - 31 53	2 1 -	3 3 7- 8	- 2 - 1	8 9 - 11 -	- 1 1	- 3 - 3 - 4	. – 8 – 8 –	7 3 - — 8 -	1 1	18 - — 12 - 22	1 3	8 14	2 1	1 - 2	3 2 - 3 -	- 2 - 4
16 3 1 5 1 2 13 20 3 4 25 11 12 1 2 13 20 3 4 25 11 12 1 2 1 3 2 8 1 7 7 8 5 1 1 4 1 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	56 52 48 41	33 29 - 18 12	2 6 3	9 2 5	15 22 11 10	26 13 17	23 23 - 9	13 13 7	9 7 14	27 17 22 214	39 30 	3 1 2	2 2 1 3	- 15 - 9 - 9	7 4 6 5	98 - 98 - 89	3 2 3	39 143 142	7 7 9 10	76 - 75 - 75	2 - 7 5	13 - 21 - 18	$-\frac{1}{3}$	26 14 21	6 - 4 - 4	4 - 11	- 10 - 10 -	8 - 9	2 2 2 - 6	214 36 35 11	5 4 4	17 19 15		3 - 7 5 I	· — 15 — 13 — 10 16	- 6 - 4 7
16 3 1 5 3 9 5 9 1 1 1 2 13 20 3 4 25 11 12 1 2 13 20 3 4 25 11 12 1 2 1 3 2 8 1 7 7 8 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40 36 32 28 21	6- 1 1	2 — 2 — 1 1 3	2 - 2	8 _ 6 4 5	9 - 4 4 1	⁸ - 3 6 1	4 - 2 7 7	2 1 2 2	18. 17 7 6 2	29 - 12 13 18 4	2 - 1 1	1 1 3	5 4 4 2	6 - 2 3 3 2	- 63 - 42 38 19 20	3	46 1. 40 27 21 22	91 10 3 3 4	60 70 56 57 33	3 1 1 5	29 - 18 14 8 6	1 - 3 - 1 2	24 25 12 22 16	4 - 3 4 2 2	3 5 11 4	10 - 13 - 11 -	12 13 11 10 9	8 1 2	40 141 30	8 7 4	29 21 28 26 26	5 2 1 2	= -9 - 11 - 8 - 6	15 22 - 18 - 22 -	- 7 - 12 - 15 - 8
0-3 Total 575 54 72 237 261 176 126 67 297 456 26 24 104 60 821 33 538 98 879 46 218 21 266 36 78 138 130 43 472 59 277 27 78 254 135 Q3 87.8 79.3 81.1 80.3 76.7 74.8 74.0 75.5 72.8 73.7 82.0 80.0 73.8 68.0 64.0 63.7 69.4 66.8 62.7 58.5 60.6 63.5 62.2 56.0 58.9 61.2 59.1 60.5 56.3 55.4 53.1 58.5 46.8 51.0 52.2 WM 75.6 66.7 65.3 65.4 66.3 66.8 66.2 66.3 66.8 66.9 57.9 57.9 57.9 57.9 57.9 57.9 57.9 57	20 16 12 8 4	ı		1	1			1	1		4 5 1	1				7 14 2 1	1 2	17 5 2 1 1	3	21 9 5 4	1	7 5 3 2 1	1	8 9 2 3	1	3 1 2	9 4 1	5 1 4	4 2 1	14 13 3 5 2	6 2 1	11 20 8 1 2	3	6 4 1	22 25 7 13 3	17 11 7 1
	0-3 Total Q3	575 87•8	54 79•3	72 81.1 65.3	237 80•3	261 76•7	176 74.8	126 74.0	67 75•5	297 72•8	456 73•7	26 82.0	24 80.0	104 73•8	60 68•0	821 64.0	33 63.7 52.7	538 69•14	98 66.8	879 62•7	46 58•5	218 60.6	21 63.5	266 62.2	36 56.0	78 58.9	138 61.2	130 59•1	43 60•5	472 56•3	59 55•4	277 53 .1	27 58•5	78 46.8	254 51.0	1 135 52•2 31• 7

*Distributions of less than fifteen cases were excluded.

TABLE XII

DISTRIBUTIONS OF SCORES MADE ON ORIENTATION TEST, FORM B, BY SECOND-YEAR STUDENTS OF ACCOUNTING IN EIGHT COLLEGES

128 –1 30	2	84	80	65	8	36	34	55	128 - 130 12h
124 120 116 112 108 104 100 96 98 80 76 72 68 64 60 56 55 28 44 40 36 32 28 40 16 12 84 96 96 16 10 10 10 10 10 10 10 10 10 10 10 10 10	1 3 4 1 2 4 1 2 7 7 7 7 7	= 3 1	1 1 3 1 1 1 2 2	1 1 1 2 1 2 4 3 2	1 1 1 - 1 - 1	2 1 1 1 1 1 2 2 3 1 3 1 3	1 - 2 2 1 2 1	1	124 120 116 112 108 104 100 96 92 88 80 76 72 68 64 60 56 52 48 44 40 36 32 28 24 20 16 12 8
Total Q3 Md Q1	33 99•0 86•0 66•6	61 79•8 71•8 66•3	12 70•0	19 81.0 69.5 63.5	10 64.0	31 77•0 60•7 46•3	21 71.0 60.7 50.5 29-86	9 52•7	4 0-3 Total Q3 Md Q1
Range	42-113	44-115	49-105	31-119	29 – 104	29-102	29-86	3 6– 85	Range

^{*}Distributions of less than five cases were excluded.

TABLE XIII

DISTRIBUTIONS OF SCORES MADE ON ORIENTATION TEST, FORM B, BY SENIORS IN ACCOUNTING IN TEN COLLEGES

128-130 12h	וין	21	76	19	78	64	32	45	214	82	128 –13 0
124 120 116 112 108 104 100 96 92 88 80 76 72 68 40 56 52 48 40 36 28 24 20 16 12 80 12 80 16 16 16 16 16 16 16 16 16 16 16 16 16	1 3 2 2 3 1 1 1 1 1 1 1	1 51 33 22 6 35 6 3 1 1 - 1 1 2	1 2 1 1	1 2 1- 2 1- 3 1- 2 1	1 2 2 4 1 1 3 1 3 2	1 1 2 2 2 2 - 1 - 3 4 2 1 5 3 3 4 1 2	1 1 2 12 1	1 2224-226-231526521	2- 2- 1- 1- 1- 1-	1- 3-1- 1 2 21- 3 1 1 3 1 1 1	124 120 116 112 108 104 100 96 92 - 88 80 - 76 72 68 64 - 76 52 48 21 40 36 32 28 21 20 16 12 8 9
Md Q1	15 100.3 93.0 83.0 1-108	47 101.7 87.3 77.2 44-120	8 82 . 7 65 –1 01	14 82.0 48-97	24 91.0 79.0 72.0 62-104	37 87.7 74.0 63.0 45-110	8 72.0 54-108	48 86.0 70.7 54.7 43-109	1), 68.0 33–88	34 67.0 47.0 31.3 5-88	Total. Q3 Md Q1 Range

*Distributions of less than five cases were excluded.

TABLE XIV

DISTRIBUTIONS OF SCORES MADE ON ORIENTATION TEST, FORM A, BY FIRST-YEAR STUDENTS OF ACCOUNTING IN FOUR COLLEGES

128-130 124 120	11	71	10	89	128 –1 30 121 ₄ 120
116 112 108 104 100 96 92 88 84 80 76 72 68 64 60	1 1 1 3 2 1 3 3 5 7 9 16	1 1 1 4 5 4 6 12 5 6 20 23 	3 1 4 7 5 5 16 12 17	1 2 2 2 2	116 112 108 104 100 96 92 88 84 80 76 72 68 64
60 56 52 48	16 9 13	33 - 19		1 	60 56 52 48
144 140 36 32 28	11 7 5	20 23 18	46 - 46 - 45	2 2 5	44 40 36
32 28 24 20 16 12	7 7 1	14 8 9 6 1 1	46 46 46 46 46 46 46 46	2 2 2 5 5 9 5 4 1 4	32 28 24 20 16 12 8
0-3		-	*	1	0 –3
Total Q3 Md Q1 Range	151 67.8 59.9 47.9 27 -113	286 66.9 54.8 42.3 10-112	458 54•7 44•0 33•9 11 - 99	54 39•6 29•6 22•0 2 - 86	Total Q3 Md Q1 Range

THE FUTURE OF THE COLLEGE ACCOUNTING TESTING PROGRAM

Evidence of growing interest in the College Accounting Testing Program is shown by the number of participating colleges in the fall and spring testing during the last two-year period. The number of colleges taking part was as follows:

Fall, 1946	29
Spring, 1947	57
Fall, 1947	50
Spring, 1948	99

A total of approximately 78,000 tests were administered to accounting students during this period.

From the beginning of the project until June, 1948, major emphasis was on test construction and validation and on research. As a result of contributions from accounting firms and the American Institute of Accountants, money was available for support of this phase of the project. Since the tests were experimental and since norms were being developed for them, it seemed desirable to encourage college participation by making the test materials available without charge. The fact that the experimental work with objective tests in the accounting field had been subsidized by voluntary contributions made it financially feasible to follow the procedure of distributing the test materials free of charge and of making only a nominal charge for scoring services.

By June, 1948, the larger share of the experimental and research work in test development had been completed. It was realized that new forms of the Orientation and Achievement Tests would have to be constructed and validated at intervals, but it was felt that a satisfactory general pattern for these tests had been evolved.

At the same time, it became evident that the fund created by the accounting firms and the Institute for research and test development would soon be exhausted, and that sources of additional income would need to be sought or the project abandoned. The Committee felt that it was not advisable to ask either the Institute or the firms for additional help — at least not until further evidence was available concerning the valuation placed upon the tests by the colleges and the firms that were potential users.

Since the testing program has now entered what is primarily a service phase and since continuing financial support is not otherwise available, it will be necessary for the service program to pay its own way. A certain amount remains from contributions received, and this fund will be used to pay part of the cost of the program during the next year or two. But in the fairly near future, the testing program must either become self-supporting or be given up.

There are three potential sources of income for the project, and it is believed that each of these should be drawn upon for a portion of the financial support, if the tests are regarded by the users themselves as sufficiently worthwhile to be continued. The three sources are (1) colleges using the tests in placement, guidance, and evaluation of individual students, (2) seniors graduating from accounting courses who will soon be seeking employment, and (3) public accounting firms and business and industrial organizations employing accountants in considerable numbers.

In the opinion of the Committee, the charge to employers for the use of the tests at the point of employment should be substantial. A plan is already in operation under which employers pay costs ranging from five dollars an individual for the use of the Orientation and Achievement Tests without scoring services to twelve dollars for test materials, scoring, and a complete report of the results of the Orientation Test, Achievement Test, and interest test. While fairly extensive use of the tests by employers may be anticipated in the immediate future, the Committee regards the program primarily a College Accounting Testing Program, and it is hoped that eventually nearly all graduates of accounting courses will have had the tests and will be able to carry with them to employers certified reports of the test results.

The Committee is especially desirous of encouraging the use of the tests for selection and guidance in colleges and, to that end, is keeping the charges as low as possible. The charge to colleges for the use of the Orientation Test and the Achievement Tests will be comparable to that for tests obtained from other publishers for use in guidance. The costs will be fifteen cents a student for the use of the test materials of each type. The scoring charge, ten cents a test, will be the same as it has been in the past. The charge for the Level II Achievement Test taken by graduating seniors will be larger, since the report of test results will include a certified report which the individual may show to prospective employers. The announcements of the fall and spring testing programs in the colleges for the academic year, 1948-49, will contain detailed information concerning procedures of handling the tests, including costs.

The future of the College Accounting Testing Program depends largely upon the success of the project office, the colleges, and employers in public accounting firms and in business and industry in developing cooperative arrangements which will make the tests of maximum value to all concerned and will place the project on a sound financial footing. The marked and growing interest in the tests on the part of both colleges and employers is favorable to the continuance of the program on a self-supporting basis.