

AN ABSTRACT OF THE THESIS OF

Norah E. Buckalew for the M. S. in Clothing & Textiles
(Name) (Degree) (Major)

Date Thesis presented July 30, 1941

Title Computation of A Textile Achievement Test

Abstract Approved:

(Major Professor)

This study was made to ascertain what pertinent knowledge of textiles first and second year college students had obtained from previous clothing courses, from general reading, and from experiences; to learn how much general knowledge of textiles they had gained by taking the textile course in college; and to measure the validity and objectivity of the test.

The objective textile achievement test of this study was compiled by Miss Edith Phyne, Associate Professor of Textiles at Oregon State College.

The test was given to two hundred Oregon State College students as a preliminary entrance examination to the elementary textile course. The same test was given as a final examination to the same students upon completion of the textile course.

These two hundred students represented sixty-three high schools, many of which were in other states and a few were in other countries. There were one hundred students from small rural high schools and eight students from large city high schools.

OLD RELIABLE BOND

Sixteen students did not state whether they had received previous training in textiles.

To distinguish between the two times the test was given, the first time is called the preliminary test and the second the final test.

The test is objective and consists of four parts, with a possible score of 181 points.

The writer scored the test papers as to correct, incorrect and omitted answers. Tables were formed giving scores and computed results on the preliminary and final tests for 200 students taking the test; for the 61 students with textile training in high school, and for 123 students without textile training in high school; for low and high scores on the parts of the preliminary and final tests; and the average scores for each part of the preliminary and final tests.

Students from small high schools received as high scores in both preliminary and final tests as did the students from large city schools.

The scores of the final test were much higher for those students in the last two quarters than were the scores for the students of the first two quarters. This result might be due to either of two reasons: these students might have been better scholastically than the students of the previous classes; or they might have been told by former students that the test would be given as a final test for the textile course.

The students scored the best scores on the true-false and definition parts, and lower scores on parts of the test in which they had to depend entirely upon their memories. The true-false and definition parts of the test gave them a suggestion as to what the answer might be.

It would seem that the test is not sufficiently adequate as a satisfactory measure. It should contain more scoring points.

ANALYSIS OF AN OREGON STATE COLLEGE

TEXTILE ACHIEVEMENT TEST

by

NORAH ELIZABETH BUCKALEW

A THESIS

submitted to the

OREGON STATE COLLEGE

in partial fulfillment of
the requirements for the
degree of

MASTER OF SCIENCE

July 1941



APPROVED:

Redacted for privacy

Professor of Clothing and Textiles

In Charge of Major

Redacted for privacy

Head of Department of Clothing and Textiles

Redacted for privacy

Chairman of School Graduate Committee

Redacted for privacy

Chairman of State College Graduate Council

ACKNOWLEDGMENT

The writer wishes to express her sincere appreciation to Miss Edith Rhyne, Associate Professor of Clothing, Textiles and Related Arts, for her help in making this research possible; and to Professor Alma C. Fritchhoff, Head of the Department of Clothing, Textiles and Related Arts, for her help and encouragement during the writing of this thesis.

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ANALYSIS OF AN OREGON STATE COLLEGE
TEXTILE ACHIEVEMENT TEST

INTRODUCTION

Tests or examinations in one form or another have been used as measurements in education for many years. A test is a means of measuring gained knowledge.

If a test is to act as a perfect measurement for knowledge gained in a certain teaching period, it should have perfect validity, or cover the scope of the subject matter that was taught. It should also have perfect objectivity, which makes it possible for more than one person to correct the test and give the same score.

There should be certain benefits derived from the use of tests. The results of the tests should show the accomplishment of the individual student and those of the group. Standard test norms and means give comprehensive standards of attainment. They should act as an incentive for achievement to the student and furnish dependable measures for the efficiency of the instruction.

It was with these functional values and criteria of an effective educational measurement in mind that this study was made and the results compiled in this thesis.

PROCEDURE

The objectives of this study were to ascertain what pertinent knowledge of textiles first- and second-year college students had obtained from previous clothing courses, from general reading, and from experiences; to learn how much general knowledge of textiles they had gained by taking the textile course in college; and to measure the validity and objectivity of this test.

The textile achievement test* for this study was compiled by Miss Edith Rhyne, Associate Professor of Textiles at Oregon State College.

As a preliminary entrance examination to the elementary textile course, the test was given to two hundred Oregon State students in four groups. The same students were given the test as a final examination upon completion of the textile course.

To distinguish between the two times the test was given, the first will be called the preliminary test and the second the final test.

The students were instructed to write on their preliminary test papers the names of the high schools which they had attended, and to indicate whether they

*See Appendix

had received high school instruction in textiles and clothing.

Sixty-three high schools were represented, many of which were in other states, and a few in other countries. There were one hundred students from small rural high schools and eighty students from large city high schools. Twenty students did not name or give the location of their high schools. Sixteen students did not state whether they had received previous training in textiles.

The test consisted of 4 parts, completely objective.

True-False. . . .	valued at 75 points
Recall	valued at 29 points
Matching	valued at 20 points
(called definitions)	
Identification of fabrics, weaves, prints, dyeing, and finishes. . . .	valued at 57 points

The writer scored the test papers as to correct, incorrect, and omitted answers. These scores were used in forming Table I, Table II, Table III, Table IV, Table V, Table VI, Table VII, and Table VIII. Misspelled words were also noted but were not counted in the scoring.

TABLE I
Scores on Preliminary and Final Tests
for 200 Students
(First column to left student number)

	Pre- test Part I	Final test Part I	Pre- test Part II	Final test Part II	Pre- test Part III	Final test Part III	Pre- test Part IV	Final test Part IV	Pre- test Total Score	Final test Total Score
1	28	65	11	28	4	18	12	41	55	152
2	34	64	13	26	5	15	12	26	64	131
3	46	58	10	27	5	17	13	41	74	143
4	46	63	8	24	3	17	18	31	75	135
5	18	66	1	28	0	17	17	37	36	148
6	44	62	9	25	4	16	16	34	73	137
7	31	57	7	28	7	17	20	39	65	141
8	26	59	9	26	8	18	17	41	60	144
9	17	68	3	29	5	17	6	38	31	152
10	23	67	9	26	9	19	19	36	60	148
11	33	61	6	29	8	19	15	41	62	150
12	47	70	14	28	9	19	13	44	83	161
13	18	68	9	28	5	19	19	47	51	162
14	19	69	7	27	8	19	14	41	48	156
15	24	53	6	16	2	13	7	34	39	116
16	9	57	5	15	4	16	7	19	25	107
17	31	62	5	24	5	19	14	35	55	140
18	32	73	9	24	6	19	12	34	59	150
19	40	70	14	27	11	19	9	41	74	157
20	49	73	8	28	12	19	14	34	83	154
21	28	70	7	28	4	20	15	35	54	153
22	29	71	8	25	9	20	11	47	57	163
23	43	66	4	26	11	18	15	43	73	153
24	41	60	6	26	4	18	10	35	61	139
25	59	71	13	28	4	20	22	48	98	167
26	17	71	5	27	2	20	16	35	40	153
27	33	66	6	28	7	18	15	46	61	158
28	17	58	6	20	8	19	7	27	38	124
29	25	70	6	27	13	20	8	36	52	153
30	13	59	3	22	4	14	10	25	30	120
31	10	61	0	22	0	19	10	32	20	134
32	27	67	8	29	8	19	17	42	60	157
33	35	67	8	24	7	14	8	27	58	132
34	25	64	5	24	6	16	9	20	45	124
35	19	65	4	25	5	16	14	36	42	142
36	22	61	3	29	3	17	9	28	37	135
37	35	56	11	23	7	16	18	31	71	126

Table I (Continued)

Scores on Preliminary and Final Tests

for 200 Students

(First column to left student number)

Pre- test Part I	Final test Part I	Pre- test Part II	Final test Part II	Pre- test Part III	Final test Part III	Pre- test Part IV	Final test Part IV	Pre- test Total Score	Final test Total Score
38	47	61	6	23	6	17	14	37	73
39	27	61	11	25	6	16	17	33	61
40	21	69	1	29	5	19	14	41	41
41	19	52	7	25	4	16	15	32	45
42	28	62	11	22	5	16	21	39	65
43	28	72	7	29	5	20	12	33	52
44	18	71	11	28	7	20	13	39	49
45	42	61	10	26	5	18	13	39	70
46	24	56	3	13	4	16	11	25	42
47	38	73	7	26	9	17	17	34	71
48	34	63	3	28	4	20	8	27	49
49	34	74	10	26	9	18	16	40	69
50	38	58	9	20	7	17	16	31	70
51	43	74	8	28	9	20	18	36	78
52	15	63	4	24	5	16	15	30	39
53	37	67	12	28	14	20	21	41	84
54	46	55	6	18	7	17	13	24	72
55	32	64	2	22	3	16	12	29	49
56	40	74	15	29	11	20	25	39	91
57	15	68	7	26	5	16	11	40	38
58	19	66	6	27	0	20	10	37	35
59	6	61	6	26	0	18	10	38	22
60	21	66	7	24	6	20	11	36	45
61	13	67	1	26	3	18	5	50	33
62	24	71	7	26	5	19	15	36	51
63	30	70	7	21	2	20	16	34	55
64	36	74	15	26	18	20	22	40	91
65	14	66	2	14	2	18	6	28	24
66	37	70	9	24	5	18	14	43	65
67	15	71	7	27	5	18	16	37	43
68	15	65	0	22	0	16	5	45	20
69	24	74	7	29	3	20	13	50	47
70	29	63	8	20	3	15	18	34	58
71	27	63	7	18	9	19	8	28	51
72	10	71	4	23	9	19	10	40	33
73	43	65	9	28	12	20	21	41	85

Table I (Continued)
 Scores on Preliminary and Final Tests
 for 200 Students
 (First column to left student number)

	Pre- test Part I	Final test Part I	Pre- test Part II	Final test Part II	Pre- test Part III	Final test Part III	Pre- test Part IV	Final test Part IV	Pre- test Total Score	Final test Total Score
74	20	69	7	28	0	19	14	48	41	164
75	8	69	2	29	0	19	10	49	20	166
76	23	66	0	28	11	20	11	35	45	149
77	18	72	6	29	9	20	15	40	48	161
78	8	59	1	15	1	14	8	22	18	110
79	13	66	1	27	0	20	4	35	18	148
80	24	67	4	26	5	17	15	39	48	149
81	30	61	7	29	5	19	20	36	62	145
82	24	64	8	28	8	19	15	37	55	148
83	8	52	6	25	5	15	12	38	31	130
84	23	62	0	29	6	18	6	42	35	151
85	11	50	1	17	5	11	88	22	25	100
86	7	62	2	27	5	17	16	39	30	145
87	41	62	8	18	5	20	12	31	66	131
88	36	63	0	28	0	20	16	42	52	153
89	20	64	11	26	7	16	14	37	52	143
90	39	63	7	26	8	17	16	48	70	154
91	10	58	0	23	4	17	10	26	24	124
92	42	59	0	26	9	17	8	38	59	140
93	54	70	15	29	9	20	32	45	110	164
94	36	73	5	28	9	20	13	35	63	156
95	26	55	8	26	5	15	14	41	53	137
96	20	72	5	29	9	19	17	47	51	167
97	24	71	4	28	6	20	7	40	41	159
98	35	64	1	27	0	20	17	43	53	154
99	18	48	3	24	4	14	8	37	33	123
100	42	73	8	29	8	19	11	37	69	158
101	15	62	10	23	8	16	11	32	44	133
102	29	65	5	26	7	17	8	28	49	136
103	47	64	15	30	13	15	19	46	94	155
104	14	59	5	27	10	17	8	47	37	150
105	37	60	3	20	0	18	19	42	59	140
106	15	61	5	17	4	15	10	37	34	130
107	48	63	10	28	7	18	17	39	82	148
108	45	66	8	30	4	20	23	43	80	159
109	38	73	7	29	0	18	14	31	59	151

Table I (Continued)
 Scores on Preliminary and Final Tests
 for 200 Students
 (First column to left student number)

	Pre- test Part I	Final test Part I	Pre- test Part II	Final test Part II	Pre- test Part III	Final test Part III	Pre- test Part IV	Final test Part IV	Pre- test Total Score	Final test Total Score
110	23	70	9	27	7	19	11	38	50	154
111	29	63	8	24	3	16	16	36	56	139
112	23	56	4	25	6	14	11	28	44	123
113	28	70	7	26	5	19	14	45	54	160
114	14	62	5	24	1	15	12	29	32	130
115	40	70	13	27	8	17	22	38	83	152
116	21	57	5	26	9	18	13	31	48	132
117	28	64	11	26	4	16	20	35	63	141
118	12	64	1	27	0	20	4	20	17	131
119	2	57	5	23	4	17	13	31	24	128
120	18	61	4	27	5	18	15	35	42	141
121	47	75	7	30	3	20	18	42	75	167
122	39	66	12	27	9	19	17	32	77	144
123	29	67	6	28	2	17	15	46	52	158
124	49	72	8	28	10	20	21	29	88	149
125	10	72	4	30	6	20	11	37	31	159
126	16	71	12	27	9	18	14	37	51	153
127	17	65	10	24	14	18	16	34	57	141
128	28	62	5	27	5	18	19	34	57	141
129	15	70	1	26	8	18	10	30	34	144
130	31	67	8	26	4	19	18	47	61	159
131	41	68	3	25	2	15	17	27	63	135
132	17	64	4	24	10	17	12	36	43	141
133	15	66	2	27	5	20	6	36	28	149
134	42	69	9	27	3	20	18	49	72	165
135	28	66	11	27	3	15	19	38	61	146
136	42	66	3	28	0	20	14	43	59	157
137	5	63	0	23	0	15	7	32	12	133
138	25	64	7	29	13	17	17	35	62	145
139	22	66	5	23	0	17	8	37	35	143
140	26	69	12	26	7	18	13	34	58	147
141	11	63	3	28	1	18	8	42	23	151
142	24	75	12	27	0	20	45	42	81	164
143	26	65	4	21	3	17	10	22	43	125
144	16	64	11	22	12	20	18	43	57	149
145	24	74	7	26	1	20	15	44	47	164

Table I (Continued)

Scores on Preliminary and Final Tests

for 200 Students

(First column to left student score)

	Pre- test Part I	Final test Part I	Pre- test Part II	Final test Part II	Pre- test Part III	Final test Part III	Pre- test Part IV	Final test Part IV	Pre- test Total Score	Final test Total Score
146	3	68	2	19	1	15	10	35	16	137
147	17	74	6	26	7	20	8	48	38	168
148	24	74	8	29	3	20	12	35	47	158
149	16	63	2	16	2	17	5	28	25	124
150	19	68	3	24	1	16	6	26	29	134
151	36	73	17	24	8	20	24	46	85	163
152	18	63	2	24	4	18	11	51	35	156
153	19	64	4	24	3	19	15	40	41	147
154	12	64	7	29	0	19	11	48	30	160
155	9	73	3	27	4	19	14	52	30	171
156	26	72	6	23	6	17	11	35	49	147
157	9	70	3	25	0	19	7	44	19	158
158	22	71	6	28	15	19	13	49	56	167
159	15	66	9	27	8	18	19	39	51	150
160	18	65	9	22	9	17	15	32	51	136
161	49	63	4	23	11	20	10	22	74	128
162	29	66	12	23	6	18	16	36	63	143
163	16	65	5	26	7	19	13	40	41	150
164	45	69	14	30	4	20	18	44	81	163
165	40	66	13	27	8	17	18	42	79	152
166	17	66	7	25	4	20	5	40	33	151
167	24	53	3	19	6	19	9	19	42	110
168	45	65	3	27	4	18	10	42	62	152
169	21	59	3	26	5	16	11	33	40	134
170	37	70	7	30	13	20	17	46	74	166
171	44	63	8	26	2	19	12	44	66	152
172	29	66	4	25	9	20	14	46	56	157
173	53	64	7	27	8	19	16	41	84	151
174	45	71	9	26	4	20	24	47	82	164
175	28	71	5	28	6	18	13	44	52	161
176	25	70	1	28	3	19	12	38	41	155
177	26	60	6	26	5	17	12	34	49	137
178	19	66	3	28	3	18	14	42	39	154
179	30	65	16	30	8	19	33	42	87	156
180	20	64	8	30	3	19	15	48	46	161
181	43	69	14	29	7	18	22	44	86	160
182	23	66	11	29	7	19	18	44	59	158

Table I (Continued)

Scores on Preliminary and Final Tests

for 200 Students

(First column to left student number)

	Pre- test Part I	Final test Part I	Pre- test Part II	Final test Part II	Pre- test Part III	Final test Part III	Pre- test Part IV	Final test Part IV	Pre- test Total Score	Final test Total Score
183	6	63	2	23	3	19	9	35	20	140
184	16	62	4	29	3	16	12	33	35	140
185	22	70	11	29	5	17	13	38	51	154
186	52	67	10	30	13	19	24	43	99	159
187	28	56	6	19	0	16	14	27	48	118
188	8	52	4	25	4	11	14	25	30	113
189	32	62	9	29	7	18	18	36	66	145
190	23	67	7	29	8	20	6	45	44	161
191	48	71	9	29	8	20	10	29	75	149
192	26	72	5	29	7	17	9	36	47	154
193	26	67	14	28	7	15	13	41	60	151
194	47	63	11	28	12	19	8	38	78	148
195	33	63	11	27	7	18	13	32	64	140
196	13	60	3	22	0	17	8	29	24	128
197	19	60	3	29	7	18	5	29	34	136
198	18	68	6	23	3	18	6	33	33	142
199	22	63	3	19	0	18	12	26	37	126
200	19	63	10	28	8	20	29	48	46	159

Rank Order File of Total Scores for

Preliminary Test Found in Table I

Total scores in rank file order for two hundred students in the preliminary test. The highest score is placed first and lowest score last.

110	75	64	58	51	45	38	30
98	75	63	58	51	45	38	30
94	75	63	58	51	45	38	29
91	74	63	57	51	45	37	28
91	74	63	57	51	44	37	25
89	74	62	57	51	44	37	25
88	74	62	57	51	44	36	25
87	73	62	56	50	43	35	24
86	73	62	56	49	43	35	24
85	73	61	56	49	43	35	24
85	72	61	55	49	42	35	24
84	72	61	55	49	42	34	23
84	71	61	55	49	42	34	23
83	71	61	55	49	42	34	22
83	70	60	54	49	41	33	22
83	70	60	54	48	41	33	20
82	70	60	53	48	41	33	20
82	69	60	53	48	41	33	20
81	69	59	52	48	41	32	20
81	66	59	52	47	41	31	19
80	66	59	52	47	40	31	18
79	66	59	52	47	40	31	18
78	65	59	52	47	40	30	17
78	65	59	52	46	39	30	16
77	64	58	51	46	39	30	12

Rank Order File of Total Scores for

Final Test Found in Table I

Total scores in rank order file for two hundred students in final test. Highest score is placed first and lowest score last.

173	161	156	152	148	143	137	128
171	160	156	152	148	143	136	128
168	160	156	152	148	142	136	126
167	160	156	152	148	142	136	126
167	160	156	152	148	141	135	126
167	159	155	151	148	141	135	126
167	159	155	151	148	141	135	125
166	159	155	151	147	141	135	125
166	159	154	151	147	141	134	124
165	159	154	151	147	141	134	124
164	159	154	151	146	141	134	124
164	158	154	151	146	140	133	124
164	158	154	150	145	140	133	123
164	158	154	150	145	140	133	123
164	158	154	150	145	140	132	120
163	158	154	150	145	140	132	120
163	158	153	150	145	140	132	118
162	158	153	150	144	139	131	116
162	158	153	150	144	139	131	114
162	158	153	149	144	139	131	113
161	158	153	149	144	138	131	110
161	157	153	149	144	138	130	110
161	157	153	149	143	137	130	110
161	157	153	149	143	137	128	107
161	157	152	149	143	137	128	100

TABLE II

Results Obtained from Table I

(Preliminary test given before taking textile course in college)

Number of Students	Range of Grades	Median	Mean	Mode	Standard Deviation
200	12 - 110	52	52	51	± 20.360

Results Obtained from Table I

(Final test given after taking textile course in college)

Number of Students	Range of Grades	Median	Mean	Mode	Standard Deviation
200	100 - 173	148	147	158	± 13.972

Description of Facts Obtained From Results of
Preliminary Test and Final Test Given to 200 Students

The lowest score made by a student on the preliminary test was 12. This student had had no previous training in textiles. She did not give the name of the high school she had attended. This student's score in the final test was 133, which was below the class average of 148.

The second lowest score of the preliminary test was 16. The student making this score had had clothing construction in college, but no high school training in textiles. The student did not give the name of the high school she had attended. This student's score on the final test was 137, which was below the class average of 148.

The information given above indicated that the two lowest grades were received by students who had had no high school clothing or textile courses. Their scores on the final test were below the class average, which fact was due perhaps to lack of interest in the subject or low scholastic ability.

The highest score obtained by a student on the preliminary test was 110. This student made a score of 164 on the final test. She had had no previous training

in textiles and came from a small high school. She stated at the close of the preliminary test that she had guessed at most of the answers. Her vocabulary and ability to answer the questions seemed proof, however, that she had some knowledge of textiles from a previous source.

Final Test, Table I. The lowest score made by a student in the final test was 100 out of a possible 181 points. This student had obtained a little over fifty per cent of the material given in the course. She scored 25 on the preliminary test. She came from a large high school and had had no previous training in textiles.

The second lowest score on the final test was 107. This student scored 25 on the preliminary test. She had gained very little knowledge during the textile course. She was graduated from a small high school, and had had no previous training in textiles.

The highest score obtained by a student in the final test was 173 points. This student's score in the preliminary test was 47. She had had no previous training in clothing or textiles and came from a small high school.

The second highest score in the final test was 171 points. The student making this score made 30 points in the preliminary test. She had had no previous training

in textiles. She had not received her high school training in the United States.

Forty-nine students made perfect scores of 20 points in the final test on Part III, which is a matching of definitions. Eight students made perfect scores of 30 points in the final test in Part II, which is recall. The lowest scores in the final test were made on Part IV of the test, which included identification of fabrics, kinds of weaves, types of prints, types of dyeing, and special finishes of fabrics.

Two young men were in the classes. They had had no previous training in textiles. One man received a score of 38 on the preliminary test and a score of 150 on the final test. The second man made a score of 45 on the preliminary test and a score of 125 points on the final test. This final score was below the average of the class.

The spelling was checked in both preliminary and final tests. Misspelled words were noted but not scored. Students should learn to spell the words which comprise the vocabulary involved in their subjects. Thirty-three different words were misspelled. There were one hundred fifty-nine words misspelled in the preliminary test and fifty-three words misspelled in the final test. Taffeta was misspelled forty-six times in

the preliminary test and only two times in the final test. A few words spelled correctly in the preliminary test were misspelled in the final test.

List of Words Misspelled in
Preliminary and Final Tests

	Preliminary test no. of times misspelled	Final test no. of times misspelled
buckram	5	3
cellophane	3	4
chardonnet	0	7
challis	12	5
celanese.	4	0
chintz	1	0
cretonne.	34	9
crepe de Chine.	2	0
dimity.	5	2
faille	0	2
frieze	0	2
Jackquard	0	1
Kasha.	0	2
lappet	0	1
lead	2	1
leno	0	1
linen.	6	0
moire.	6	0
mohair velour	3	0
organdy	2	0
plisse crepe	3	2
pongee	9	0
poiret twill	1	0
pile weave	1	0
pure dye.	1	0
Roshanara crepe	0	5
shoddy	1	0
seersucker	9	1
serrated edge	0	3
swivel	1	0
taffeta	46	2
velour	1	0
virgin	1	0

TABLE III

Scores on Preliminary and Final Tests for
61 Students, with Textile Training in High School
(First column to left student number)

	Pre- test Part I	Final test Part I	Pre- test Part II	Final test Part II	Pre- test Part III	Final test Part III	Pre- test Part IV	Final test Part IV	Pre- test Total Score	Final test Total Score
1	15	62	10	23	8	16	11	32	44	133
2	39	63	7	26	8	17	16	48	70	154
3	47	64	15	30	13	15	19	46	94	155
4	24	71	4	28	6	20	7	40	41	159
5	20	72	5	29	9	19	17	47	51	167
6	26	55	8	26	5	15	14	41	53	137
7	19	69	7	27	8	19	14	41	48	156
8	47	70	4	28	9	19	13	44	83	161
9	33	61	6	29	8	19	15	41	62	150
10	23	67	9	26	9	19	19	36	60	148
11	44	62	9	25	4	16	16	34	73	137
12	43	66	4	26	11	18	15	43	73	153
13	28	62	5	27	5	18	19	34	57	141
14	49	70	8	28	12	20	14	35	83	153
15	40	70	14	27	11	19	9	41	74	157
16	28	69	7	24	4	15	15	33	54	141
17	17	66	7	25	4	20	5	40	33	151
18	28	71	5	28	6	18	13	44	52	161
19	29	66	4	25	9	20	14	46	56	157
20	32	73	9	28	6	19	14	34	61	154
21	25	63	7	23	13	15	17	32	62	133
22	31	62	5	24	5	19	14	35	55	140
23	17	71	5	27	2	20	16	35	40	153
24	17	64	4	24	10	17	12	36	43	141
25	59	71	13	28	4	20	22	48	98	167
26	45	69	14	30	4	20	18	44	81	163
27	21	57	5	26	9	18	13	31	48	132
28	42	61	10	26	5	18	13	39	70	144
29	18	65	9	22	9	17	15	32	51	136
30	24	71	7	26	5	19	15	36	51	152
31	30	65	16	29	8	20	33	42	87	156
32	20	64	8	30	3	19	15	48	46	161
33	31	60	6	26	4	18	10	35	51	139
34	17	58	6	20	8	19	7	27	38	124
35	22	61	3	29	3	17	9	28	37	135
36	47	61	6	23	6	17	14	37	73	138

Table III (Continued)

Scores on Preliminary and Final Tests for
61 Students, with Textile Training in High School

(First column to left student number)

Pre- test Part I	Final test Part I	Pre- test Part II	Final test Part II	Pre- test Part III	Final test Part III	Pre- test Part IV	Final test Part IV	Pre- test Total Score	Final test Total Score
37	21	69	1	29	5	19	14	41	157
38	28	62	11	22	5	16	21	39	139
39	18	71	11	28	7	20	13	39	158
40	24	56	3	13	4	16	11	25	110
41	15	63	4	24	5	16	15	30	133
42	46	55	6	18	7	17	13	24	114
43	32	64	2	22	3	16	12	29	131
44	6	61	6	26	0	18	10	38	143
45	36	74	15	26	18	20	22	40	160
46	14	66	2	14	2	18	6	28	126
47	10	71	4	23	9	19	10	40	153
48	23	66	0	28	11	20	11	35	149
49	8	59	1	15	1	14	8	22	110
50	29	65	5	26	7	17	8	28	136
51	14	62	5	24	1	15	12	29	130
52	40	70	13	27	8	17	22	38	152
53	2	57	5	23	4	17	13	31	128
54	18	61	4	27	5	18	15	35	141
55	29	67	6	28	2	17	15	46	158
56	16	71	12	27	9	18	14	37	153
57	19	60	3	29	7	18	5	29	136
58	18	68	6	23	3	18	6	33	142
59	19	68	3	24	1	16	6	26	134
60	18	63	4	24	2	18	11	51	156
61	16	65	5	26	7	19	13	40	150

Rank Order File of Total Scores forPreliminary Test in Table III

Total scores in rank order file for 61 students with previous high school clothing courses in preliminary test. Highest score received is placed first and lowest score last.

98	62	51	41
94	62	51	40
91	60	49	38
87	59	49	37
83	58	49	35
83	57	49	34
83	56	48	33
81	55	46	33
74	54	45	33
73	53	44	32
73	52	43	29
73	52	42	24
72	51	42	24
70	51	41	22
70	51	41	18
65			

Rank Order File of Total Scores for

Final Test in Table III

Total scores in rank order file for 61 students with previous high school clothing courses, in final test. Highest score received is placed first and lowest score last.

167	156	144	136
167	155	143	135
163	154	142	134
161	154	141	134
161	153	141	133
161	153	141	133
160	153	141	133
159	153	140	132
158	153	139	131
158	152	139	130
158	152	138	128
157	150	137	126
157	150	137	114
156	149	136	110
156	148	136	110
156			

TABLE IV

Results Obtained from Table III

(Preliminary test given to students with previous high school work in textiles)

Number of Students	Range of Grades	Median	Mean	Mode	Standard Deviation
60	18 - 98	51	52	51	± 22.88

Results Obtained from Table III

(Final test given to students with previous high school work in textiles)

Number of Students	Range of Grades	Median	Mean	Mode	Standard Deviation
60	110 - 167	144	143	153	± 12.496

TABLE V

Scores on Preliminary and Final Tests for
123 Students without High School Training in Textiles
(First column to left student number)

	Pre- test Part I	Final test Part I	Pre- test Part II	Final test Part II	Pre- test Part III	Final test Part III	Pre- test Part IV	Final test Part IV	Pre- test Total Score	Final test Total Score
1	21	66	7	24	6	20	11	36	45	146
2	13	67	1	26	3	18	5	50	22	161
3	30	70	7	21	2	20	16	34	55	145
4	35	70	9	24	5	18	14	43	63	155
55	35	67	8	24	7	14	8	27	58	132
6	19	65	4	25	5	16	14	36	42	142
7	35	56	11	23	7	16	18	31	71	126
8	27	61	11	25	6	16	17	33	61	135
9	19	52	7	25	4	16	15	32	45	125
10	28	72	7	29	5	20	12	33	52	154
11	34	74	10	26	9	18	16	40	69	158
12	25	70	6	27	13	20	18	36	52	153
13	27	67	8	29	8	19	17	42	60	157
14	19	66	3	28	3	18	14	42	39	154
15	43	69	14	29	7	18	22	44	86	160
16	6	63	2	23	3	19	9	35	20	140
17	16	62	4	29	3	16	12	33	35	140
18	22	70	11	29	5	17	13	38	51	154
19	28	56	6	19	0	16	14	27	48	118
20	8	52	4	25	4	11	14	25	30	113
21	32	62	9	29	7	18	18	36	66	145
22	7	62	2	27	5	17	16	39	30	145
23	41	62	8	18	5	20	12	31	66	131
24	36	63	0	28	0	20	16	42	52	153
25	20	64	11	26	7	16	14	37	52	143
26	15	65	0	22	0	16	5	45	20	148
27	24	74	7	29	3	20	13	50	47	173
28	29	63	8	20	3	15	18	34	58	132
29	27	63	7	28	9	19	8	28	51	138
30	33	65	9	28	12	20	31	41	85	154
31	20	69	7	28	0	19	14	48	41	164
32	8	69	2	29	0	19	10	49	20	166
33	18	72	6	29	9	20	15	40	48	161
34	13	66	1	27	0	20	4	35	18	148
35	38	58	9	20	7	17	16	31	70	126

Table V (Continued)

Scores on Preliminary and Final Tests for
123 Students without High School Training in Textiles
(First column to left student number)

Pre- test Part I	Final test Part I	Pre- test Part II	Final test Part II	Pre- test Part III	Final test Part III	Pre- test Part IV	Final test Part IV	Pre- test Total Score	Final test Total Score
36	43	74	8	28	9	20	18	36	78
37	37	67	12	28	14	20	21	41	84
38	40	74	15	29	11	20	25	39	91
39	15	68	7	26	5	16	11	40	38
40	19	66	6	27	0	20	10	37	35
41	12	64	1	27	0	20	4	20	17
42	47	75	7	30	3	20	18	42	75
43	39	66	12	27	9	19	17	32	77
44	49	72	8	28	10	20	21	29	88
45	17	65	10	24	14	18	16	34	57
46	10	72	4	30	6	20	11	37	31
47	54	70	15	29	9	20	32	45	110
48	35	64	1	27	0	20	17	43	53
49	18	48	3	24	4	14	8	37	33
50	42	73	8	29	8	19	11	37	69
51	37	60	3	20	0	18	19	42	59
52	15	61	5	17	4	15	10	27	34
53	48	63	10	28	7	18	17	39	82
54	45	66	8	30	4	20	23	43	80
55	38	73	7	29	0	18	14	31	59
56	23	70	9	27	7	19	11	38	50
57	24	67	4	26	5	17	15	39	48
58	30	61	7	29	5	19	20	36	62
59	4	62	9	29	6	18	16	42	35
60	11	50	1	17	5	11	8	22	25
61	24	74	8	29	3	20	12	35	47
62	16	63	2	16	2	17	5	28	25
63	36	73	17	24	8	20	24	45	85
64	9	73	3	27	4	19	14	52	30
65	26	72	6	23	6	17	11	35	49
66	9	70	3	25	0	19	7	44	19
67	22	71	6	28	15	19	13	49	56
68	13	60	3	22	0	17	8	29	24
69	22	63	3	19	0	18	12	26	37
70	15	66	2	27	5	20	6	36	28
71	42	69	9	27	3	20	18	49	72

Table V (Continued)

Scores on Preliminary and Final Tests for
123 Students without High School Training in Textiles
(First column to left student number)

	Pre- test Part I	Final test Part I	Pre- test Part II	Final test Part II	Pre- test Part III	Final test Part III	Pre- test Part IV	Final test Part IV	Pre- test Total Score	Final test Total Score
72	22	66	5	23	0	17	8	37	35	143
73	26	69	12	26	7	18	13	34	58	147
74	11	63	3	28	1	18	8	42	23	151
75	24	75	12	27	0	20	45	42	81	164
76	16	64	11	22	12	20	18	43	57	149
77	29	63	8	24	3	16	16	36	56	139
78	23	56	4	25	6	14	11	28	44	123
79	28	70	7	26	5	19	14	45	54	160
80	5	64	0	29	0	17	7	35	12	145
81	10	61	0	22	0	19	10	32	20	134
82	42	66	3	28	0	20	14	43	59	157
83	45	65	3	27	4	18	10	42	62	152
84	40	65	13	27	8	17	18	42	79	151
85	29	66	12	23	6	18	16	36	63	143
86	49	63	4	23	11	20	10	22	74	128
87	24	53	3	19	6	19	9	19	42	110
88	21	59	3	26	5	16	11	33	40	134
89	44	63	8	26	2	19	12	44	66	152
90	15	70	1	26	8	18	10	30	34	144
91	13	59	3	22	4	14	10	25	30	120
92	41	68	3	25	2	15	17	27	63	135
93	34	63	3	28	4	20	8	27	49	138
94	38	73	7	26	9	17	17	34	71	150
95	35	70	7	24	5	18	16	43	63	165
96	26	65	4	21	3	17	10	22	43	125
97	37	70	7	30	13	20	17	46	74	166
98	45	71	9	26	4	20	24	47	82	164
99	25	70	1	28	3	19	12	38	41	155
100	3	68	2	19	1	15	10	35	16	137
101	42	59	0	26	9	17	8	38	59	140
102	10	58	0	23	4	17	10	26	24	124
103	8	52	6	25	5	15	12	38	31	130
104	24	64	8	28	8	19	15	37	55	148
105	14	59	5	27	10	17	8	47	37	150
106	36	73	5	28	9	20	13	35	63	156
107	9	57	5	15	4	16	7	19	25	107

Table V (Continued)

Scores on Preliminary and Final Tests for
 123 Students without High School Training in Textiles
 (First column to left student number)

	Pre- test Part I	Final test Part I	Pre- test Part II	Final test Part II	Pre- test Part III	Final test Part III	Pre- test Part IV	Final test Part IV	Pre- test Total Score	Final test Total Score
108	26	59	9	26	8	18	17	41	60	144
109	42	67	10	29	13	20	24	43	89	159
110	23	66	11	29	7	19	18	44	59	158
111	31	67	8	26	4	19	18	47	61	159
112	28	66	11	27	3	15	19	38	61	146
113	45	71	9	26	4	20	24	47	82	164
114	53	64	7	27	8	19	16	41	84	151
115	33	66	6	28	7	18	15	46	61	158
116	29	71	8	25	9	20	11	47	57	163
117	26	60	6	26	5	17	12	34	49	137
118	23	67	7	29	8	20	6	45	44	161
119	48	71	9	29	8	20	10	29	75	149
120	26	62	5	29	7	17	9	36	47	144
121	26	67	14	28	7	15	13	41	60	151
122	47	63	11	28	12	19	8	38	78	148
123	33	63	11	27	7	18	13	32	64	140

Rank Order File of Total Scores for

Preliminary Test in Table V

Total scores in rank order file for 123 students with no previous high school clothing courses in preliminary test. Highest score received is place first and lowest score last.

110	70	59	48	33
91	69	59	47	31
89	69	58	47	31
88	66	58	47	30
86	66	58	45	30
85	66	57	45	30
85	64	57	44	30
84	63	57	44	28
84	63	56	43	25
82	63	56	42	25
82	63	55	42	25
82	63	55	31	24
81	62	54	41	24
80	62	53	40	23
79	61	52	40	22
78	61	52	39	20
78	61	52	38	20
77	61	52	37	20
75	61	51	37	20
75	60	50	35	19
74	60	49	35	18
74	60	49	35	17
72	59	49	34	16
71	59	48	34	12
71	59	48		

Rank Order File of Total Scores for

Final Test in Table V

Total scores in rank order file for 123 students with no previous high school clothing courses in final test. Highest score received is placed first and lowest score last.

173	158	151	144	134
171	158	151	144	132
167	158	151	144	132
167	158	150	144	131
166	158	150	143	131
166	158	150	143	130
165	157	150	143	128
164	157	149	143	128
164	156	149	142	126
164	156	149	141	126
164	155	149	141	126
164	155	148	140	125
163	155	148	140	125
162	154	148	140	124
162	154	148	140	124
161	154	148	140	123
161	154	147	139	123
161	154	147	138	120
160	154	146	138	120
160	153	146	137	118
159	153	145	137	113
159	152	145	135	110
159	152	145	135	107
159	151	145	134	100
158	151	145		

TABLE VI

Results Obtained from Table V

(Preliminary test for students without previous high school textiles)

Number of Students	Range of Grades	Median	Mean	Mode	Standard Deviation
123	12 - 110	54	54	63	± 20.284

Results Obtained from Table V

(Final test for students without previous high school textiles)

Number of Students	Range of Grades	Median	Mean	Mode	Standard Deviation
123	100 - 173	149	145	158	± 14.910

Discussion of Facts Obtained From Results of
Preliminary and Final Tests of Those Students
With and Without Previous High School Textile Courses

The class average in the preliminary and final tests was two points lower in each test for those students having had high school textile courses than was the average for those students without high school textile courses. Frequently girls that are not going to college are advised in high school to enter the clothing courses. The small difference in this instance is probably due to the greater number of scores of students without previous textile courses in high school than there were scores of students with previous textile training.

The two lowest and the two highest scores in the preliminary and final tests were made by students without previous textile training in high school. This might be contributed to poor and very good scholastic ability. Or it may be contributed to special interest in the course by those making the highest scores.

In the true-false part of the preliminary test, students without high school work in textiles scored higher than did those students with previous study in textiles. In the last part, where identification of textiles, weaves, prints, dyeing, and finishes

was necessary, students with high school work in textiles scored better than did those with no previous textile training. This fact would tend to show students get some knowledge of textiles in their clothing classes in high school, even where they do not have special courses in textiles. In the first instance perhaps the student without previous high school training guessed at the true-false questions, or knew the answers from some other source of study or experience.

Students had greater number of perfect scores in Part III of the final test than in any other part of the test. This is due probably to the fact that there is less memory work involved in matching questions.

The greatest gain was made in Part I of the final test, and the least amount of gain was made in Part IV of the final test. The greater gain of Part I was probably due to the classroom discussion by the teacher and the use of the text book. The gain in Part IV is probably due to lack of time to cover the amount of material given in the course and greater diversity.

The great number of no scores on Part II and III in the preliminary test was probably due to the fact that recall and matching questions need definite knowledge in order to answer them.

Students from the small high schools received as high scores as did the students from the large city schools. This would tend to show the quality of instruction does not depend upon the size of the high school but upon the quality of instruction by the teacher.

TABLE VII

High and Low Scores Obtained on Four Parts of Preliminary and Final Tests

Low and high scores for each division of Preliminary and Final tests for 200 students

Pre-test Part I		Final test Part I		Pre-test Part II		Final test Part II		Pre-test Part III		Final test Part III		Pre-test Part IV		Final test Part IV	
Scores		Score		Score		Scores		Score		Score		Score		Score	
Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
2	59	48	75	1	17	15	30	1	18	11	20	4	45	19	50

Low and high scores for each division of Preliminary and Final tests for 61 students
with textile training in high school

Pre-test Part I		Final test Part I		Pre-test Part II		Final test Part II		Pre-test Part III		Final test Part III		Pre-test Part IV		Final test Part IV	
Score		Score		Score		Score		Score		Score		Score		Score	
Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
2	59	55	74	1	16	13	30	1	18	15	20	5	33	22	48

TABLE VII (continued)

High and Low Scores Obtained on Four Parts of Preliminary and Final Tests

Low and high scores for each division of Preliminary and Final tests for 123 students
without previous textile training

Pre-test Part I		Final test Part I		Pre-test Part II		Final test Part II		Pre-test Part III		Final test Part III		Pre-test Part IV		Final test Part IV	
Score		Score		Score		Score		Score		Score		Score		Score	
Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
4	47	48	75	1	17	15	30	1	15	11	20	4	45	19	50

TABLE VIII

Averages of Total Scores for Each Section of the Preliminary and Final Tests

Average of total scores for each section of the
Preliminary and Final Tests for 200 students

Pre-test Part I	Final test Part I	Pre-test Part II	Final test Part II	Pre-test Part III	Final test Part III	Pre-test Part IV	Final test Part IV
26	66	7	26	6	18	14	37

Average of total scores for each section of the Preliminary and Final Tests
for 61 students with textile training in high school

Pre-test Part I	Final test Part I	Pre-test Part II	Final test Part II	Pre-test Part III	Final test Part III	Pre-test Part IV	Final test Part IV
26	66	7	25	6	18	14	36

TABLE VIII (Continued)

Averages of Total Scores for Each Section of the Preliminary and Final Tests

Average of total scores for each section of the Preliminary and Final Test
for 123 students without textile training in high school

Pre-test Part I	Final test Part I	Pre-test Part II	Final test Part II	Pre-test Part III	Final test Part III	Pre-test Part IV	Final test Part IV
26	65	7	26	5	18	14	37

Results Obtained From High and Low Scores, Table VII,
and the Average Scores, Table VIII

The averages of total scores obtained by the 61 students with previous textile training in Part I of the preliminary and final tests were 26 and 66, respectively. The averages of the total scores obtained by the 123 students without previous textile training in Part I of the preliminary test and final test were 25 and 66, respectively. The apparent difference is too slight to evaluate.

The averages of total scores for the students without previous textile training and those with previous textile training were about equal in Part II and Part III for the preliminary and final tests.

The average of total scores of Part IV in the final test was 36 for the 61 students with high school textile training, while the average of total scores of Part IV in the final test was 37 for the 123 students without previous textile training. This small difference may be due to the greater number in the group without previous textile training.

No student made a perfect score of 181 points in either the preliminary or final tests. One student without previous textile training made a total score of

75 in Part I of the final test. Forty-nine students made perfect scores of 20 in Part III of the final test. Eleven of these students had had previous textile work and thirty-eight had received no previous work in textiles before taking the course in college. One student without previous textile training scored 45 in Part IV of the preliminary test. This same student scores 42 on Part IV of the final test. This difference was due perhaps to carelessness or lack of time to finish the test.

Seven students did not score in Part II of the preliminary test. Six of these students were without previous textile training. Eighteen students without previous textile training did not score in Part III of the preliminary test, while three students with previous textile training made a score of one in Part III of the preliminary test.

The students without previous textile training made the greater range of scores in Part I and Part IV of the preliminary test. The score range in Part I was 4 to 47 and in Part IV, 4 to 45.

The greatest range of scores made by the students with previous textile training was made in Part I of the preliminary test, 2 to 59.

SUMMARY OF FACTS NOTED IN TABLES

In the final test scores the mean 147 was greater than three times the standard deviation ± 13.97 ; this would indicate either that the students had received excellent instruction or that the test might be too easy.

Students from small high schools received as high scores in both preliminary and final tests as did the students from large city schools.

The scores of the final test were much higher for those students in the last two quarters than were the scores for the students of the first two quarters. This might be due to either of two reasons: these students might have been better scholastically than the students of the previous classes; or they might have been told by former students that the test would be given as a final test for the textile course.

The students received the best scores on the true-false and definition parts and lower scores on parts of the test in which they had to depend entirely upon their memories. The true-false and definition parts of the test gave them a suggestion as to what the answer might be.

CONCLUSIONS

1. Achievement tests may be used to check the amount of accomplishment of students and the type of work done by an instructor.
2. It would seem that high school courses could include more work on textiles along with selection and clothing construction classes.
3. An appreciable amount of knowledge on textiles is gained through general reading or through other experiences.
4. It seems that knowledge obtained does not depend upon the size of the school, but upon the quality of the instruction received and the ability of the student to retain facts.
5. The students seemed to receive lower scores on those parts of the test in which their memories alone were depended upon for the answer to questions.
6. It would seem that the test is not sufficiently adequate as a satisfactory measure. It should contain more scoring points.

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APPENDIX

1. The test
2. Key to test

Oregon State College
 School of Home Economics
 CT 250 - Final Examination

Name _____

Part I _____
 II _____
 III _____
 IV _____
 Total _____

Part I

Place + in front of true statements and - in front of false.

- () 1. A blanket with 5% wool may be labeled a wool blanket.
- () 2. Serge is an example of worsted material.
- () 3. Sni-a-fil is linenized cotton.
- () 4. The hair fiber has no serrated edge.
- () 5. The fibers for worsted material are combed parallel.
- () 6. Rayon materials may be manufactured from cotton linters.
- () 7. Shoddy is the same as virgin wool.
- () 8. The weight of a blanket is a true indication of its warmth.
- () 9. Noils refers to the short fibers from combed wool.
- () 10. An acetate is dissolved in acetone.
- () 11. Tubize is a trade name for a cellulose acetate synthetic.
- () 12. Kapok is a vegetable fiber.
- () 13. 90" wool is the preferable length for a blanket.
- () 14. Wool is weaker when wet than dry.
- () 15. Hair is used for felted materials.
- () 16. Bemberg refers to the French type of synthetic.
- () 17. Dip dye refers to dyed in the finished product.
- () 18. Trubenized refers to a permanent stiffness on organdy.
- () 19. Ingrain refers to pressing a stocking.
- () 20. Asbestos is mined.
- () 21. Alkali will injure animal fibers.
- () 22. Pina cloth is made from pineapple plant.
- () 23. Lan-i-tal is made from milk.
- () 24. Lastex is a rubber fiber.
- () 25. Basco is a cotton material.
- () 26. Boarding refers to pressing a stocking.

- () 27. Weft knit material will run.
- () 28. Tow refers to the short fibers of linen.
- () 29. Wool is a poor conductor of heat.
- () 30. Organzine silk filaments are of good quality.
- () 31. A piece-dyed material will be very fast as to color when made of wool.
- () 32. Marquissette is an example of gauze weave.
- () 33. Moire finish is a watered finish.
- () 34. Damask is reversible.
- () 35. A full-fashioned stocking has a seam at the foot.
- () 36. Mohair is grown on the angora rabbit.
- () 37. Cashmere is classed as hair.
- () 38. Spun silk is made from short filaments.
- () 39. Cellophane is a synthetic material.
- () 40. The boot of the stocking refers to the leg.
- () 41. A circular knit stocking fits better at the ankle.
- () 42. A shadow print has the design printed on the warp yarns.
- () 43. Kapok is a synthetic fiber.
- () 44. Mohair has much resiliency.
- () 45. Suede cloth has an emerized finish.
- () 46. A calendered finish is permanent.
- () 47. Synthetic yarns are brown in the natural state.
- () 48. Cotton is stronger when wet than dry.
- () 49. Line refers to the long fibers of linen.
- () 50. Teazeling refers to the shearing of velvet.
- () 51. A taped edge to a sheet refers to a heavy thread along the edge of selvage.
- () 52. At least 20 per cent of wool should be used in a blanket to give appreciable warmth over a cotton blanket.
- () 53. Kapok is rayon floss.
- () 54. Celanese is an acetate.
- () 55. An ingrain stocking is one with a dull finish.
- () 56. Boarding is a word which refers to the hem of a stocking.
- () 57. A full fashion stocking is of silk material always.
- () 58. Ply refers to the numbers of twists per inch in a yarn.
- () 59. Sni-a-fil is a synthetic fabric.
- () 60. Tubize is a Gorman method of making rayon.
- () 61. Pina cloth is made of manila hemp.
- () 62. Sateen has floats made of warp yarn.
- () 63. Grenadine refers to ply used for yarn.

- () 64. A torn sheet will shrink more than a cut one.
- () 65. Lappet is superior to swivel weave.
- () 66. Scrim is more desirable than marquisette for a glass curtain.
- () 67. A circular knit stocking has the seam of the foot at the side.
- () 68. The boot of the stocking refers to the foot.
- () 69. The Cotton Textils Institute sells sanforized materials.
- () 70. An out size stocking is a half size.
- () 71. Durene is a permanent finish on organdy.
- () 72. Sanforizing is a finish for rayon.
- () 73. Basco is a linen material.
- () 74. Bleaching gives strength to linen.
- () 75. Double damask refers to a damask with twice as many threads as single.

Part II - Recall

Directions: In each of the following statements a word or set of words has been omitted. Fill in the blank spaces.

1. Slippage is prevented in thin curtain material by using the _____ weave.
2. A fabric usually shrinks more in the direction of the _____ yarn.
3. Acetate rayons are soluble in the solvent _____.
4. In weaving, yarns not bound or woven for some distance are called _____.
5. An upholstery fabric having an uncut pile is called _____.
6. Many silks are weighted with _____ which may produce a rash on the body.
7. Designate by which of the four major methods the following trade-named rayons are made:

Celanese _____

Bemberg _____

Lustron _____

Rayon _____

Tubize _____

8. Sanforizing refers to _____ shrinkage.
9. Lastex is a _____ material.
10. Spun silk is made from _____ silk.
11. Pongee is produced by the _____
silk worm.
12. Reworked wool is referred to as _____.
13. Circular knit stocking is knit in _____
form.
14. Moireing refers to a _____ finish.
15. Batik is a form of _____ dyeing.
16. A stocking with the toe joining of a different
color is a _____ stocking.
17. A hand-block print can be identified by the
_____ of design.
18. Dotted swiss is an example of _____ weave.
19. Ply refers to the number _____ in a yarn.
20. A permanent mercerized finished cotton damask is
sold under the trade name _____.
21. The hair fiber does not have _____.

22. The synthetic fiber, _____, cannot be ironed with a hot iron.
23. Velvet has _____ weave.
24. When a solution of cellulose is dried in sheet form it becomes _____.
25. A material which shows holes in the selvage has been _____.
26. A black silk with 15% weighting may be called _____.
27. Wool which has not been previously used is _____.
28. _____ is considered the father of the rayon industry.
29. Kapok is a _____ fiber.

Part III - Definitions

Directions: From the column on the left select a suitable definition for the textile term given in the right-hand column and place its corresponding number in the space allotted. There are more definitions from which to choose than words to be defined.

- | | |
|---|---------------------|
| 1. Dyeing fibers before being made into yarn | Terry_____ |
| 2. A hammering process applied to fabrics | Marquisette_____ |
| 3. Rustle of silk | Embossed_____ |
| 4. The gum on the silk fiber | Scott Tester_____ |
| 5. When dry dye rubs off cloth | Fadometer_____ |
| 6. The French method of making rayon | Weighting_____ |
| 7. A word which gives count of knitting | Pulled wool_____ |
| 8. Dyeing fabric in the piece | Cellulose_____ |
| 9. The first person who produced rayon in commercial quantity | Acetate_____ |
| 10. The machine used for making tensile strength tests. | Celanese_____ |
| 11. A machine for testing fading of materials | Terry_____ |
| 12. Wool from slaughtered sheep | Organzine_____ |
| 13. Material used to give body to silk materials | Tow_____ |
| 14. The raised finish which imitates brocade | Shoddy_____ |
| 15. Another word which is used for gauze material | Beetling_____ |
| 16. The weave of Turkish towel- ing. | Chardonnet_____ |
| 17. The long filaments of silk | Wale_____ |
| 18. The short fiber of flax | Nitrocellulose_____ |
| 19. Reworked wool | Stock Dyeing_____ |
| 20. Method used for Celanese | Scroop_____ |
| 21. Weave used for Turkish towels | Seracin_____ |
| 22. An acetate rayon | |
| 23. A curtain material which was first used in England | |
| 24. The method used for making Tubize | |

Part IV - Fabric Identification

No. of Sample	Name of Fabric	No. of Sample	Name of Fabric
1		20	
2		21	
3		22	
4		23	
5		24	
6		25	
7		26	
8		27	
9		28	
10		29	
11		30	
12		31	
13		32	
14		33	
15		34	
16		35	
17		36	
18		37	
19			

Identify the following weaves:

- | | |
|-----------|-----------|
| (1) _____ | (4) _____ |
| (2) _____ | (5) _____ |
| (3) _____ | |

Identify the following types of printing:

- | | |
|-----------|-----------|
| (1) _____ | (4) _____ |
| (2) _____ | (5) _____ |
| (3) _____ | (6) _____ |

Identify the following types of dyeing:

- | | |
|-----------|-----------|
| (1) _____ | (3) _____ |
| (2) _____ | |

Identify the following types of finishes:

- | | |
|-----------|-----------|
| (1) _____ | (4) _____ |
| (2) _____ | (5) _____ |
| (3) _____ | (6) _____ |

Key for Answers to Exam for CT 250

PART I

1.-	16.-	31.-	46.-	61.-
2.+	17.+	32.+	47.+	62.-
3.-	18.-	33.+	48.+	63.-
4.+	19.-	34.+	49.+	64.-
5.+	20.+	35.+	50.-	65.+
6.+	21.+	36.-	51.-	66.-
7.-	22.+	37.+	52.+	67.-
8.-	23.+	38.+	53.-	68.-
9.+	24.+	39.+	54.+	69.-
10.+	25.+	40.+	55.-	70.-
11.-	26.+	41.-	56.-	71.-
12.+	27.+	42.+	57.-	72.-
13.+	28.+	43.-	58.-	73.-
14.+	29.+	44.+	59.+	74.-
15.-	30.+	45.+	60.-	75.-

PART II

- | | |
|----------------------------------|----------------------------|
| 1. Leno, gauze marquisette | 16. Ingrain |
| 2. Warp | 17. Irregularity of design |
| 3. Acetone - glacial acetic | 18. Lappet or swivel |
| 4. Floats | 19. Strands |
| 5. Frieze | 20. Basco |
| 6. Lead | 21. Serrated edge |
| 7. Cellulose acetate | 22. Celanese |
| Cuprammonium | 23. File |
| Viscose | 24. Cellophane |
| Nitrocellulose | 25. Tentered |
| 8. Shrinkage with 1/4" tolerance | 26. Pure dye |
| 9. Rubber | 27. Virgin |
| 10. Short filaments | 28. Chardonnet |
| 11. Wild | 29. Vegetable |
| 12. Shoddy | |
| 13. Circular or tubular | |
| 14. Watered | |
| 15. Resist | |

PART III

21 - 16	13	17	7
15	12	18	24 - 6
14	20	19	1
10	22	2	3
11	21	9	4

PART IV

1. Cretonne
2. Glazed chintz
3. Casement cloth
4. Buckram
5. Dotted Swiss
6. Dimity
7. Felt
8. Crash
9. Seersucker
10. Bleached pongee
11. Poiret twill
12. Wool faille
13. Covert cloth
14. Ladyship organdy
15. Porosa
16. Silk poplin
17. Painted voile
18. Percalé
19. Crepe de Chine
20. Handkerchief
21. Challis
22. Chinagrass cloth
23. Swiss dimity
24. Plisse crepe
25. Kasha
26. Mohair velour
27. Spun silk
28. Mohair casement
cloth
29. Taffeta
30. Dress linen
31. Broadcloth
32. Moire taffeta
33. Figured chiffon
velvet
34. Roshanara crepe
35. Pina cloth
36. Cotton flannel
37. Damask

WEAVES

1. Damask
2. Swivel
3. Pile
4. Satin
5. Plain

PRINTING

1. Direct
2. Warp
3. Direct
4. Duplex
5. Direct
6. Discharge

DYEING

1. Dyed in stock
2. Yarn dyeing
3. Yarn dyeing

FINISHES

1. Glazed
2. Calendered
3. Embossed
4. Emerized
5. Moire
6. Bleached