ABSTRACT
          The goal of the project was to validate, refine, and
develop plans for implementation of a performance-based challenge
test in the cognitive and psychomotor aspects of basic clothing
construction skills that could be utilized for grades 7-14. An
advisory board and a jury panel representing the three instructional
levels provided assistance in developing and validating the
instrument. A clothing construction performance instrument was
developed for each of two learning levels according to a matrix
model. Following testing with 418 students in eight schools, the data
obtained was subjected to statistical analysis. It was concluded that
the test was feasible. The results are presented in narrative and
tabular form. Recommendations are presented for both curriculum
changes and test improvement. Appendixes (121 pages) include project
correspondence, forms, the matrix model, grading criteria for
psychomotor skills, and the 65-page instrument developed. The basic
areas covered by the test are fashion and fitting, fiber and fabric,
sewing equipment, clothing construction, and clothing care. The
format is multiple choice for the written part. Performance tasks are
to be completed in the areas of clothing construction and sewing
equipment. (Author/RG)

MINI-GRANT PROJECT RESUMÉ

PROJECT TITLE:' Clothing Construction Performance Assessment

AGENCY: Arizona State University
          Tempe, Arizona, 85281/

PROJECT DIRECTOR: Betty A. Hunter; Director
                   Assistant Professor of Textiles and
                   Clothing

                   Elizabeth Monts, Assistant Director
                   Professor of Home Economics

DURATION: February 1, 1976 - June 30, 1976

COSTS:

   RCU $5,111.00   LOCAL $800.00   TOTAL $5,911.00

PURPOSE OF PROJECT:

     To validate, refine and develop plans for implementa-
tion of a clothing construction performance assessment for
basic clothing construction utilizing competency-based
standards and task inventories that would be appropriate for
use as a challenge test from junior high school through
grade 14.

DESCRIPTION OF PROJECT:

   a. The review of literature covered the last ten years.

   b. Five advisory board meetings, plus one jury panel
       session were held.

   c. A clothing construction performance instrument was
       developed for levels one and two according to the
       model matrix.. Also an experience data form was
       constructed.

   d. The instrument was tested with 418 subjects in 8
       schools.

e. Data were analyzed to determine mean, standard deviation, standard error, discrimination, difficulty and reliability.

The final report and information regarding the clothing performance assessment instrument will be disseminated at the August, 1976, conference in Flagstaff for home economics educators.

V. Body of Report in detail

A. <u>Problem area toward which the project was directed, including references to previous studies, experiments and related literature.</u>

In education, the opportunity for students to challenge a course is a valuable asset that has been used infrequently. This is particularly true for those content areas such as food preparation and clothing construction in home economics in which a student may have adequately achieved the required knowledges and skills through previous experiences either in or out of the school environment. All of the research within the last ten years dealing with clothing construction skills has been at the college level. Epps (1972) demonstrated that a written pre-test in clothing construction could be predictive of success in a clothing construction course. Using both pre- and post-test design, Souligny and Sisler (1972) were unable to draw a conclusion as to the value of their testing in relation to performance. During the 1960s there were several studies, Candice (1968); Walli (1968); and Marshall (1967), focused on using pencil and paper devices in pretest situations. Results were inconclusive and lacked appropriate follow-up.

Creekmore (1966) has probably done the most extensive collection of clothing construction assessment instruments. She made no attempt, however, to identify any achievement levels of clothing construction skills but focused on general skills and techniques.

The fabrics and accompanying processes of construction have changed within the last five years. Consequently, the validity of any instrument done prior to that time would have to be questioned. Also, practically all of the research has dealt with the cognitive aspects of construction and the psychomotor domain has been ignored or assumed to be evaluated by pencil and paper devices.

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A challenge test whereby students could demon-
strate competency of the various levels of clothing
construction has not been validated and published
and is a much needed tool for both students and
teachers. The establishment of such a device could
simplify the articulation of students' progress from
grades 7-14. As an outgrowth of the development of
this challenge test, assuming acceptable validity
and reliability, plans would be made to adapt the
test for bilingual and non-reading students.

B. Goals and Objectives of the Project

GOAL

The goal of this project was to validate, refine,
and plan for implementation of a performance based
challenge test in the cognitive and psychomotor
aspects of basic clothing construction skills that
could be utilized for grades 7-14.

OBJECTIVE

The objective for the study was that by June 30,
1976, a student challenge test in basic clothing
construction would be validated, refined, and a plan
for implementation developed for grades 7-14 as
evidenced by the final product.

C. Description of the General Project Design

The review of literature revealed that all the
research that had been done within the past ten years
was at the college level. There had been no attempt
to identify any beginning, intermediate and advanced
levels of clothing construction skills. Plans were
made to develop a Clothing Construction Performance
Assessment test (CCPA) for three levels. It was
assumed that these three levels would be demonstrated
by grades 7 through 14.

Junior, senior high and community college teach-
ers made up the eight-member advisory board which met
five times; January 27; February 13, 20, and 27; and
March 6, 1976. (See Appendix A for names and
letters.) This board finalized the total item pool
for the instrument and began initial content valida-
tion. A jury panel of six members (see Appendix B),
representing the junior, senior high and community
college educational levels served to complete content

validation of the instrument. One hundred percent agreement was achieved. A student background experience data form was developed to identify students' levels of psychomotor development.

Utilizing the state clothing curriculum guide, five content areas were delineated as: fashion and fitting; fiber and fabric; sewing equipment; clothing construction; and clothing care. First and second levels of learnings were used for fashion and fitting, sewing equipment and clothing construction. The curriculum guide had an additional third learning level for sewing equipment and clothing construction. Only the first level was used for clothing care and only the second level for fiber and fabric in both the guide and in the development of the instrument. Cognitive and psychomotor domains were used for assessing levels of achievement in the content areas of sewing equipment and clothing construction. Fashion and fitting, fiber and fabric and clothing care used only the cognitive domain. (See Appendix C .)

The project director administered the initial field tests to approximately 100 students from grades 13-14 for all the content areas at the first and second levels of learning to clarify any misconceptions and/or errors in the instrument.

Grades 8-14 were used for data collection. Ten teachers participated; three from junior high, six from senior high and one from grades 13-14. (See Appendix D.) Having approximately equal distribution, around 417 subjects were involved in testing the instrument. It was not possible to have a random sample because of time limitations for data collection, as well as teachers being unable to participate at the close of the semester. There was no reason, however, to believe that the sample was not representative of the different grade levels. Subjects met the criteria as first and/or second levels of clothing construction ability; thereby providing data for analysis. See Table I for number of respondents per content area.

Approval for data collecting was granted through Arizona State University's Interdisciplinary Committee on Human Experimentation (see Appendix E) and the administrative unit of each school. One school needed approval by the school board, the superintendent, the curriculum advisor, the principal and the teacher. For other schools, approval was

TABLE 1

Distribution of Subjects by Content Area and Level

| School | Field Site Distribution Content Area and Level | | | | | | | | Background Experiences |
	2-I N	2-II N	3-II N	4-I N	4-II N	5-I N	5-II N	6-I N	N
2[a]		33	33				11		83
1[b]	15			25		27			25
2						21	21		21
2	37			37				37	
2		22							22
1							17		17
2				41	85	35		44	37
1						17			17
3-4[c]	56	71	70	71	72		72	68	112
TOTALS N	108	126	103	174	107	189	104	149	334

[a]Junior High.

[b]Senior High.

[c]Grades 13-14.

granted by the superintendent, principal and
teacher. (See Appendix F .) Also, parent consent
forms were used. (See Appendix F .)

The project director administered the test in
one school and in the remaining nine classrooms,
teachers gave the test. Teachers reported that the
time required for taking any section of the paper
and pencil items was no more than one classroom
period. Some students completed a content area in
15 minutes; others took 45 minutes to complete. In
most cases, two parts could be completed in one
session. Time needed for the psychomotor portions
of the tests was greater for the second levels than
the first levels. The first levels of the psycho-
motor tests were completed during one class session
while the second levels needed almost two (one hour)
class sessions.

The teacher rated each student; above average,
average, below average as to her perception of her/
his ability for the specific content area. (See
Appendix G .) The students were identified by code
number rather than by name.

The psychomotor sections of the tests were
evaluated by the project director. See Appendix H
for grading criteria.

The following materials were delivered to and
picked up from each field site:

    ...Parent Consent Forms
    ...The instrument:
        ....answer sheets for paper and pencil
            parts
        ....pencils
        ....all fabrics and notions--cut and
          - marked for each psychomotor test
        ....student coding sheets
    (See Appendix I , notes to the teacher.)

D. How the Project was Evaluated

The project has gone through a continuous
process of evaluation from its beginning by the
use of the advisory board, the jury panel, the
field test teachers, and data analysis to determine
item analysis and reliability.

E. Results of the Project

  See addendum 1 for detailed results.

F. Conclusions

  See addendum 2 for detailed conclusions.

DISSEMINATION PLAN

An abstract of the final report and information
regarding the clothing performance assessment instrument
(see Appendix J) will be made available at the August,
1976, conference in Flagstaff for home economics educators.
Information will be disseminated through the "Arizona Home
Economics Association Newsletter" which is sent to all
members during October. In addition the project abstract
will be sent to all home economic supervisors within the
state and to the Research Coordinating Unit.

END OF PROJECT REPORT

School: Arizona State University   Date: 6-22-76

                                                 Project
Project Title: Clothing Construction   Completion
                Performance Assessment   Date: 6-30-76

		Funded Level	Actual Expenditures	Funds Available Re-allocation
I.	DIRECT COSTS			
A.	Personnel Costs	3248.00	2871.00	377.00
B.	Employee Benefits	268.00	165.00	103.00
C.	Supplies and Materials	886.00	779.95	106.05
D.	Travel	330.00	76.80	253.20
E.	Communications	00.00	00.00	00.00
F.	Services	00.00	00.00	00.00
G.	Final Report Costs	00.00	134.00	-134.00
H.	Other Direct Costs (list)	00.00	00.00	00.00
I.	Subtotal, Direct Costs	4732.00	4026.75	705.25
II.	INDIRECT COSTS	379.00	229.68	149.32
III.	TOTAL COSTS	5111.00	4256.43	854.57

Signed_____   _____
          Project Director   Date

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. RESULTS

The procedures were followed as planned with one
exception. The field test was begun with 50 subjects. Data
were collected and submitted for analysis, but unfortunately,
the analysis could not be completed as planned and the
analysis had limited use. As a result, most of the test re-
finement could not be done prior to the main study. In
review of the importance of establishing the challenge test
by the end of the school year, the decision was made to con-
tinue with the main study without a thorough item analysis.
Validity had previously been established by the jury panel
and was considered the most crucial component of the
instrument.

The sample included both male and female students in
grades seven through 14. Approximately 50 male subjects
were involved but no effort was made to segregate them from
the total group.

The results are presented in three sections. The first
section provides the summary data on student backgrounds.
Secondly are the results regarding the instrument including
item difficulty and reliability. The last part is directed
toward teacher ratings.

Student Background

The summary data for the subjects are presented for
each item of the Student Background Experiences. Since the
CCPA was given in the latter two weeks of the semester, all
subjects indicated having at least one course in clothing.
The distribution of all subjects by total number of clothing
construction courses taken in school are given in Table 2.
Subjects that were in the senior high level had the highest
mean number of school clothing courses completed. Over
twenty-five percent of senior high level students had
completed three or more courses and was higher than the
other two groups (see Table 2).

Over 65 percent of all the students had not utilized
non-school instruction courses for learning clothing con-
struction processes. All of the subjects resided in areas
where these courses were available through Stretch and Sew,
4-H, Scouts and other agencies. Of the three educational
levels, the highest level, 13-14 grade, had also taken the
greatest number of construction courses outside of school
(see Table 3). Other resources for clothing construction
assistance outside of a formal class setting were family,
friends, neighbors or self. The youngest educational level

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TABLE 2

Number of responses to total number of clothing courses taken in school.

No. of courses taken	Jr N	% [1]	Sr N	%	13-14 N	%	Total N	%
0	0	00.0	0	00.0	0	00.0	0	00.
1	9	15.5	101	43.3	53	47.7	163	40.
2	49	84.5	61	26.2	31	27.9	141	35.
3	0	00.0	55	23.6	15	13.5	70	17.
4	0	00.0	16	6.9	12	10.8	28	7.
NR[2]	2	--	2	--	11	--	15	--
Total	60	100.0	235	100.0	122	100.0	417	100.
X		2.776		2.923		2.775		2.761
SD		.503		.997		1.150		.994
SE		.074		.074		.109		.050

Educational Levels

[1]Adjusted percentages, used in all following tables.

[2]No response.

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had the highest proportion of cases receiving clothing
instruction from these resources. Approximately ten percent
of the cases in each group indicated receiving a great deal
of help from these less formal resources. In general, the
older the age group, the more help that had been received.
It is interesting to note that about twenty-four percent of
junior high school students indicated having clothing
instruction sponsored by out-of-school agencies (see Table 4).

TABLE 3

Number of responses to number of clothing construction
courses taken outside of school.

No. of courses taken	Educational levels							
	Jr		Sr		13-14		Total	
	N	%	N	%	N	%	N	%
0	44	75.9	191	82.3	76	67.8	311	77.4
1-2	11	19.0	29	12.6	31	27.7	71	17.7
3-6	3	5.1	1	4.7	3	2.7	17	4.2
7-10	0	00.0	1	0.4	2	1.8	3	0.7
11 or more	0	00.0	0	00.0	0	00.0	0	00.0
No response	2	00.0	3	00.0	10	00.0	15	00.0
Total	60	100.0	235	100.0	122	100.0	417	100.0
$\overline{X}$		1.293		1.233		1.384		1.284

A sizeable proportion of the subjects, varying from 57
to 82 percent, made some or most of their own clothes (see
Table 5). Even though junior high level students would be
expected to be beginners, only 35 percent indicated making
none of their clothes. Also, this group had received the
least instruction. All subjects were enrolled in clothing
construction courses but twenty-six percent checked making
none of their clothes.

As could be expected, the most frequently used types of
fabrics are the most common on the market, namely woven and
knit (see Table 6). Again, the senior high level had a more

even distribution of fabric experiences than the other two
levels. The 13-14 grade levels had the most experience with
furs. There was a notable number of students from all grade
levels that had worked with the "others" which would include
felts and non-textile materials.

TABLE 4

Frequency of responses to other sources of
clothing instruction

Help received	Educational levels			Total (N=214)
	Jr (N 30)	Sr (N 117)	13-14 (N 67)	
	N	N	N	N
No	4	41	16	61
Yes	26	86	47	159
If yes, little	10	51	20	81
If yes, some	12	32	16	60
If yes, great deal	6	23	13	42
No response	2	2	10	14
Total	34	235	122	417

Items six through nine dealt with kinds of garments made.
The results for these four items are presented as a unit and
related data are given in Table 7.

The older the age level, the more blouses/tops were
made. The junior high school respondents were finishing
their first clothing course, but yet nearly 42 percent had
made more than two tops. Blouses/tops seemed to be more
popular than any other kinds of garments.

The number of dresses/robes constructed were directly
proportional to educational age level. In regard to other
kinds of garments than those mentioned, the advanced educa-
tional level, grades 13-14, had the largest number of
respondents making more than six garments. But, again, the
junior high level was fairly productive having 23 percent
of these respondents making three or more garments. Of

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TABLE 5.

Number of responses to amount of sewing done.

Item	Educational levels							
	Jr (N=58)		Sr (N=231)		13-14 (N=112)		Total	
	N	%	N	%	N	%	N	%
Make none	21	36.2	63	27.3	22	19.6	106	26.4
Make some	34	58.6	139	60.2	59	52.7	232	57.9
Make most	0	00.0	27	11.7	30	26.8	57	14.2
Sew for others	3	5.2	2	0.9	1	0.9	6	1.5
No response	2	XX.X	4	XX.X	10	XX.X	16	XX.X
Total	60	100.0	235	100.0	122	100.0	417	100.0

TABLE 6

Frequency of response to types of fabrics used for clothing construction.[1]

Fabrics	Educational levels							
	Jr (N=21)		Sr (N=111)		13-14 (N=93)		Total	
	f	%	f	%	f	%	f	%
Woven	21	29.6	101	30.8	93	38.9	215	33.7
Knit	25[2]	35.2	111	33.8	87	36.4	223	35.0
Fur	1	0.01	7	2.1	15	6.3	23	3.6
Others	24[2]	34.8	109	33.2	44	18.4	177	27.7
Total	71	99.61	328	99.9	239	100.0	638	100.0

[1] Students could check more than one response

[2] Frequency exceeds N, probable error in recording

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garments made, no group had a mean less than 2 and the 13-14 grade levels had no mean less than 3. If these four items of the experience form are taken together, on the average a junior high school student has made six garments at the end of her/his first year. Assuming that most students of this level might make two garments in class, the junior high school student is not inexperienced. No judgment can be made as to the standard of construction. The means for number of garments constructed by grade levels were:

| Kind of garment | Educational level | | | |
	Jr	Sr	13-14	Total
Blouses/tops	2.35	2.91	3.58	3.02
Pants, shorts	2.05	2.42	3.45	2.65
Dresses/robes	1.79	2.09	3.62	2.46
Others	2.02	2.04	3.40	2.42

Eight items were directed to specific clothing construction processes. The data are given in Table 8. Approximately 82 percent of the respondents had put in a zipper and 52 percent had inserted a zipper more than three times. On some items participants had an opportunity to indicate a lack of understanding of a term, but there was no way to identify accuracy in perception of a term if there was a response. It was with the process of "set in sleeves" that students at the senior high level indicated not understanding the item. The more advanced educational levels had the greatest proportion of respondents using "set in sleeves" in seven or more instances. Nearly 62 percent of the junior high level students had used this particular process. Experience in application of collars was directly proportional to educational level. Although 80 percent of the junior high respondents had made blouses/tops, 45 percent had never applied a collar. This would seem to indicate that the younger respondents make garments requiring fewer processes. The mean frequency of 13-14 grade level for seven of the eight processes was higher than the total frequency mean. The one exception was the process of underlining/backing. The process having the lowest frequency mean for all groups was the bound buttonhole. The junior high level used machine buttonhole less than any other of the processes. Zipper application had the highest mean frequency for the junior and 13-14 grade levels as compared to third highest for senior high. Underlining/backing was the second highest mean frequency for senior high level but lowest for the 13-14 grade level. Within the junior high level there were respondents making seven or more of each of these processes. Also, the junior high level indicated fewer respondents

TABLE 7

Number of responses to kinds of garments made.

Item	Jr N	Jr %	Sr N	Sr %	13-14 N	13-14 %	Total N	Total %
Blouses/tops								
0	11	19.3	12	5.2	9	8.0	32	8.0
1-2	27	47.4	104	44.6	22	19.6	153	38.1
3-4	11	19.3	50	21.5	21	18.8	82	20.4
5-6	4	7.0	27	11.6	15	13.4		11.
7 or more	4	7.0	40	17.2	45	40.2		.1
No response	3	XXX	2	XXX	10	XXX	15	XXX
Total	60	100.0	235	100.0	122	100.0	417	100.0
Pants/shorts								
0	18	31.0	57	24.7	6	5.4	81	20.2
1-2	24	41.4	91	39.4	30	27.0	145	36.2
3-4	12	20.7	38	16.5	20	18.0	70	17.5
5-6	3	5.2	20	8.7	18	16.2	41	10.2
7 or more	1	1.7	25	10.8	37	33.3	63	15.7
No response	2	XXX	4	XXX	11	XXX	17	XXX
Total	60	100.0	235	100.0	122	100.0	417	100.0
Dresses/robes								
0	23	39.7	93	40.1	5	4.5	121	30.5
1-2	29	50.0	81	34.9	32	28.8	142	35.4
3-4	3	5.2	21	9.1	10	9.0	34	8.5
5-6	1	1.7	21	9.1	17	15.3	39	9.7
7 or more	2	3.4	16	6.9	47	42.3	65	16.2
No response	2	XXX	3	XXX	11	XXX	16	XXX
Total	60	100.0	235	100.0	122	100.0	417	100.0

TABLE 7 --(CONTINUED)

| Item | Education level | | | | | | | |
| | Jr | | Sr | | 13-14 | | Total | |
	N	%	N	%	N	%	N	%
Other garments								
0	19	32.8	97	41.6	12	10.7	128	31.8
1-2	25	43.1	74	31.8	27	24.1	126	31.3
3-4	8	13.8	34	14.6	19	17.0	61	15.1
5-6	6	10.3	10	4.3	12	10.7	28	6.9
7 or more	0	00.0	18	7.7	42	37.5	60	14.9
No response	2	XXX	2	XXX	10	XXX	14	XXX
Total	60	100.0	235	100.0	122	100.0	417	100.0

not understanding the term than did the senior high level.
The 13-14 grade level had the fewest number of respondents
indicating not understanding terms.

In seam construction, the plain seam was used the most
frequently and the piped seam by the least number of
respondents for all grade levels. Frequency of use is shown
in Table 9 .

TABLE 9

Frequency of response to use of seams.

| Seams | Educational level | | | | | | Total (N=417) | |
| | Jr | | Sr | | 13-14 | | | |
	f	%	f	%	f	%	f	%
Flatfell	3	4.8	45	14.2	96	25.7	144	19.1
French	4	6.5	27	8.5	85	22.8	116	15.4
Lap	18	29.0	46	14.5	74	19.8	138	18.3
Plain	35	56.4	190	59.9	96	25.7	321	42.7
Piped	2	3.2	9	2.8	22	5.9	33	4.4
Total	62	99.9	317	99.9	373	99.9	752	99.9

TABLE 8

Number of responses to clothing construction processes

Item	Educational level							
	Jr		Sr		13-14		Total	
	N	%	N	%	N	%	N	%
Zipper								
0	4	7.0	42	18.0	1	0.9	47	11.7
1-2	31	54.4	93	39.9	16	14.4	140	34.9
3-6	14	24.6	58	24.9	37	33.3	109	27.2
7 or more	6	10.5	40	17.2	57	51.4	103	25.7
?	2	3.5	0	00.0	0	Q0.0	2	0.5
No response	3	XXX	2	XXX	11	XXX	16	XXX
Total	60	100.0	235	100.0	122	100.0	417	100.0
$\overline{X}$	2.49		2.41		3.35		2.68	
Set in sleeve								
0	19	32.8	14	6.0	3	2.7	36	8.9
1-2	20	34.5	119	51.1	31	27.7	170	42.2
3-6	15	25.9	49	21.0	25	22.3	89	22.1
7 or more	2	3.4	48	20.6	53	47.3	103	25.6
?	2	3.4	3	1.3	0	00.0	5	1.2
No response	2	XXX	2	XXX	10	XXX	14	XXX
Total	60	100.0	235	100.0	122	100.0	417	100.0
$\overline{X}$	2.10		2.60		3.14		2.68	
Collars								
0	27	46.6	21	9.0	2	1.8	50	12.4
1-2	22	37.9	137	58.8	29	25.9	188	46.7
3-6	6	10.3	45	19.3	36	32.1	87	21.6
7 or more	2	3.4	30	12.9	45	40.2	77	19.1
?	1	1.7	0	00.0	0	00.0	1	0.2
No response	2	XXX	2	XXX	10	XXX	14	XXX
Total	60	100.0	235	100.0	122	100.0	417	100.0
$\overline{X}$	2.10		2.36		3.11		2.48	

TABLE 8--(CONTINUED)

Item	Educational level							
	Jr		Sr		13-14		Total	
	N	%	N	%	N	%	N	%
Machine buttonholes								
0	31	53.4	68	29.2	6	5.4	105	26.1
1-2	16	27.6	80	33.4	35	31.3	131	32.5
3-6	5	8.6	36	15.5	18	16.1	59	14.6
7 or more	6	10.3	48	20.6	52	46.4	106	26.3
?	0	00.0	1	0.4	1	0.9	2	0.5
No response	2	XXX	2	XXX	10	XXX	14	XXX
Total	60	100.0	235	100.0	122	100.0	417	100.0
$\overline{X}$		1.76		2.29		3.06		2.43
Bound buttonholes								
0	39	67.2	170	73.0	18	16.1	227	36.3
1-2	8	13.8	18	7.7	55	49.1	81	20.1
3-6	3	5.2	5	2.1	29	25.9	37	9.2
7 or more	1	1.7	5	2.1	9	8.0	15	3.7
?	7	12.1	35	14.9	1	0.9	48	10.7
No response	2	XXX	2	XXX	10	XXX	14	XXX
Total	60	100.0	235	100.0	122	100.0	417	100.0
$\overline{X}$		1.78		1.79		2.29		1.92
Patch pockets								
0	7	2.1	107	45.9	15	13.4	129	32.0
1-2	28	48.3	65	27.9	27	24.1	120	29.8
3-6	14	24.1	25	10.7	34	30.4	73	18.1
7 or more	7	12.1	24	10.3	35	31.3	66	16.4
?	2	3.4	12	5.2	1	0.9	15	3.7
No response	2	XXX	2	XXX	10	XXX	14	XXX
Total	60	100.0	235	100.0	122	100.0	417	100.0
$\overline{X}$		2.47		2.00		2.82		2.30

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TABLE 8 -(CONTINUED)

Item	Educational level							
	Jr		Sr		13-14		Total	
	N	%	N	%	N	%	N	%
Underlining/ Backing								
0	17	29.3	83	35.9	16	14.4	116	29.0
1-2	19	32.8	59	25.5	51	45.9	129	32.2
3-6	13	22.4	26	11.3	28	25.2	67	16.7
7 or more	1	1.7	10	4.3	16	14.4	27	6.7
?	8	13.8	53	22.9	0	00.0	61	15.2
No response	2	XXX	4	XXX	11	XXX	17	XXX
Total	60	100.0	235	100.0	122	100.0	417	100.0
$\overline{X}$	2.37		2.53		2.39		2.47	
Linings								
0	17	29.3	105	45.3	24	21.4	146	36.3
1-2	24	41.4	64	27.6	54	48.2	142	35.3
3-6	12	20.7	39	16.8	21	18.8	72	17.9
7 or more	2	3.4	8	3.4	12	10.7	22	5.5
?	3	5.2	16	6.9	1	0.9	20	5.0
No response	2	XXX	3	XXX	10	XXX	15	XXX
Total	60	100.0	235	100.0	122	100.0	417	100.0
$\overline{X}$	2.14		1.99		2.21		2.08	

Knit fabrics were the most used by both junior and senior grade levels, in comparison to the 13-14 grade level who more frequently used woven fabrics. The distribution was as follows:

Fabrics	Jr N	Sr N	13-14 N	Total N
Woven	20	117	95	232
Plaids	22	.71	91	184
Knits	25	129	91	245
Nap	12	89	72	173
Total	79	406	349	834

All machine attachments were used by all grade levels. The seam and hem gauge had highest use followed by hemmer foot. The frequency of "others" may be accounted for by zipper foot. Distribution was:

Machine Attachments	Jr N	Sr N	13-14 N	Total N
Hemmer foot	14	66	57	137
Pleater	3	15	55	73
Seam and hem gauge	20	100	67	187
Binder	6	24	12	42
Others	21	133	.54	208
Total	64	338	245	6

All pieces of equipment were used with the tailor's ham being most frequently used by the senior and 13-14 grade levels. The junior high level used the seamboard and point presser the most frequently. Distribution was:

Equipment	Jr N	Sr N	13-14 N	Total N
Tailor's ham	11	111	80	202
T-Square	7	31	45	83
Seamboard and point presser	15	69	78	162
Needle board	7	39	28	74
Clapper	7	28	30	65
Total	47	278	261	586

Of the hand stitches, the most frequently used was the slip stitch. All of the various stitches were used by all of the grade levels. The relative high frequency of use of "others" might be accounted for by the popularity of hand crafts and embroidery. Frequency of use was:

Hand Stitches	Jr N	Sr N	13-14 N	Total N
Slip	26	149	97	272
Catch	10	108	93	211
Buttonhole	21	55	68	144
Running or blind	16	119	97	232
Others	14	89	62	165
Total	87	520	417	1024

Of the edge finishes, the zig zag received highest frequency of use by all grade levels. The bound seam was least frequently used. The bound seam requires more skills and additional fabric which may help to account for the less frequency of use. The distribution of frequencies is given below:

Edge Finishes	Jr N	Sr N	13-14 N	Total N
Zig zag	30	134	100	264
Bound	4	61	67	132
Stitched	23	115	90	228
Clean finish	18	108	90	216
Others	6	59	55	120
Total	81	477	402	960

From 55 to 68 percent of the respondents indicated some experience with pattern alterations. The higher grade level, 13-14, had the most as shown below:

Pattern Alterations	Jr N	Jr %	Sr N	Sr %	13-14 N	13-14 %	Total N	Total %
None	7	11.7	63	26.8	8	6.6	78	18.7
Some	37	61.7	130	55.3	83	68.0	250	60.0
Many	1	1.6	27	11.5	22	18.0	50	12.0
No response	15	25.0	15	6.4	9	7.4	39	9.3
Total	60	100.0	235	100.0	122	100.0	417	100.0

Less than 50 percent of the subjects indicated always finishing a garment. Thirty-five percent of the lower grade level, junior high, was the highest percentage of "never" and "sometimes" non-completion. This was much higher than the other two groups. Distributions were as given below:

Completed garment	Jr		Sr		13-14		Total	
	N	%	N	%	N	%	N	%
Never	6	10.0	15	6.4	0	00.0	21	5.0
Sometimes	15	25.0	30	12.8	10	8.2	55	13.2
Almost always	16	26.7	79	33.6	50	41.0	145	34.8
Always	16	26.7	97	41.3	45	36.9	158	37.9
No response	7	11.7	14	5.9	17	13.9	38	9.
Total	60	100.0	235	100.0	122	100.0	417	100.0

Instrumentation

The main objective of the project was to develop a challenge test for specific content areas and levels of performance in clothing construction. Even though data were collected on the educational levels including junior high through grades 13-14, it was not intended to evaluate levels of learning by educational level. The focus was on the first level and second level of content learnings wherever these might be taught. The use of the different educational levels was directed to development of the instrument.

It appears throughout the tests that those items with multiple responses were more difficult than the single response items. A plausible explanation might be that students are more accustomed to taking tests having single response items and are not familiar with a combination of single and multiple responses.

The CCPA content areas and number of items were as follows:

		Items	
Content Area	Level	Pencil Paper	Psychomotor
Fashion and Fitting	One	19	0
Fashion and Fitting	Two	17	0
Fiber and Fabric	Two	47	0
Sewing Equipment	One	23	0
Sewing Equipment	Two	14	4
Clothing Construction	One	33	2
Clothing Construction	Two	19	7
Clothing Care	One	11	0

Fashion and Fitting, level one, had 19 items with single responses for each item. Ninety-seven students took the test giving a mean of 11.01. The total number of cases included both males and females. The level of difficulty ranged from 0.14 to 0.86; sixteen items ranged from 0.20 to 0.80; one item at 0.14 and two items at 0.82 and 0.86 (see Table 10).

Fashion and Fitting, level two, was taken by 96 students at the senior high and 13-14 educational levels. The junior high teachers felt that their students were not ready for the second level of the test. There were 17 items with a possible 23 responses. The mean was 11.63. There were 15 items with a 0.20 to 0.80 difficulty range and four below 0.20; also four above 0.80 (see Table 10).

The total number of items for Fiber and Fabric, level two, was 47 with a possible 59 correct responses. The mean was 28.88. A total of 123 students took the test. The majority of the subjects were not enrolled in a textile class but rather a clothing construction class at either the senior high or 13-14 educational levels. There were 57 items with a level of difficulty from 0.22 to 0.76; two were below 0.20 and none above 0.80 (see Table 11).

The possible number of responses for Sewing Equipment, level one, was 25 with 170 total cases from junior high, senior high and grades 13-14; the mean was 18.80. The item level of difficulty ranged from 0.44 to 0.92 with 12 items above 0.80 (see Table 11).

The total number of participants for Sewing Equipment, level two, was 101. The maximum number of responses for the test was 21; responses 1 through 17 were paper and pencil items with task performance or psychomotor testing items 18 through 21. The mean was 11.52. Of the paper and pencil responses, 11 items ranged in item difficulty from 0.37 to 0.80; three above 0.80 and two less than 0.20 (see Table 12). Three of the psychomotor tasks were above 0.90 level of difficulty and one was 0.50. Available equipment for the sewing machine was a factor to consider. The task that was the least attempted was the use of darning attachments as these were not available for all participants. Approximately 50 percent of the senior high and 13-14 educational levels performed machine blind hemming and 90 percent of the total group successfully used the sewing machine for top stitching.

Clothing Construction, level one, tests included 35 items with a possible 41 responses; items 1 through 33 had a possible 37 paper and pencil responses. Items 34 and 35

TABLE 10

Item level of difficulty for Fashion and Fitting,
levels one and two.

Level One (N=97)		Level Two (N=96)	
Item No.	% of D	Item No.	% of D
1	51.4	1	77.0
2	71.0	2	89.0
3	62.3	3	83.8
4	15.0	4a	21.2
5	69.4	4b	36.4
6	70.4	4c	10.1
7	62.6	4d	57.6
8	76.6	5	45.0
9	77.0	6a	25.0
10	20.6	6b	68.0
11	47.7	7	18.0
12	86.0	8	27.0
13	71.0	9	93.9
14	54.2	10	69.7
15	70.1	11	14.1
16	19.6	12	80.8
17	66.4	13	71.7
18	82.2	14	79.8
19	44.9	15a	68.7
		15b	45.5
		15c	14.1
		16	20.4
		17	43.0

$\overline{X}$ = 11.010 $\overline{X}$ = 11.635

SD = 3.864   SD = 2.761

SE = 0.392   SE = 0.282

TABLE 11

Item level of difficulty for Fiber and Fabric, level two.

Level Two (N=123)			
Item No.	% of D	Item No.	% of D
1	76.0	23	26.4
2	76.0	24	77.4
3	44.8	25a	56.1
4	56.4	25b	57.6
5	43.5	26a	48.0
6	44.3	26b	45.2
7a	54.8	26c	16.1
7b	61.5	27	76.6
8	27.6	28	37.1
9	33.6	29	49.2
10	69.6	30	71.0
11	67.2	31	75.8
12	29.5	32	47.6
13	42.4	33	64.5
14a	32.8	34	76.0
14b	42.4	35	27.4
14c	50.4	36	36.3
15	37.6	37	67.2
16	32.0	38	29.8
17	41.0	39	58.2
18a	52.5	40	45.6
18b	36.9	41	34.8
19	59.3	42a	48.7
20a	29.1	42b	25.8
20b	55.6	43	72.0
21a	71.2	44	65.0
21b	42.9	45	55.3
21c	41.1	46	20.2
21d	18.4	47	33.7
22	78.0		

$$\overline{X} = 28.886$$
$$SD = 0.585$$
$$SE = 0.684$$

TABLE 12

Item level of difficulty for Sewing Equipment, levels one and two.

Level one (N=170)		Level two (N=101)	
Item No.	% of D	Item No.	% of D
1	44.1	1	92.1
2	70.4	2	43.6
3	92.7	3	64.4
4	63.0	4	73.3
5a	90.6	5	39.4
5b	82.9	6	82.2
5c	54.1	7	60.0
6	70.6	8	69.7
7	77.1	9	85.9
8	62.3	10a	70.3
9	61.7	10b	9.0
10	52.1	11	79.2
11	87.0	12	61.6
12	53.9	13	61.0
13	88.6	14a	37.4
14	73.4	14b	17.4
15	76.9	14c	45.4
16	90.5	15	92.3
17	79.9	16	50.0
18	83.9	17	92.6
19	89.1	18	90.2
20	90.8		
21	83.6		
22	83.6		
23	82.4		

$$\overline{X} = 18.806 \qquad \overline{X} = 1.525$$

$$SD = 4.195 \qquad SD = 4.500$$

$$SE = 0.322 \qquad SE = 0.448$$

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were performance tasks. The mean for the total group was 26.34 with a level of item difficulty range from 0.22 to 0.91. Twenty-nine of the paper and pencil items were between 0.22 to 0.80; no response was below 0.22 level of difficulty. The psychomotor tasks, items 34 and 35, were very similar in item difficulty with 0.85 and 0.87 respectively (see Table 13).

Clothing Construction, level two, was given to a total of 101 students at the senior high and 13-14 educational levels. There were 19 written items with a possible 26 responses. Items 20 through 26 were task performance items which were assessed for either right or wrong performance. The mean for the total test group was 21.19. The level of difficulty for the total test was from 0.14 to 0.90. Only one response was below 0.20 and 21 items were between 0.20 and 0.80. The two psychomotor tasks at level two of clothing construction had a 0.75 and 0.77 level of diffi- culty (see Table 13).

Clothing Care testing was done at only one achievement level. The instrument had 11 items with 12 responses. The mean for the total group was 7.12. Responses 1 through 7 ranged from 0.74 to 0.94 levels of item difficulty with responses 3 through 12 ranging from 0.70 to 0.61 (see Table 14). Item 8 was the most difficult.

In all but one of the tests the mean scores were at or above 50 percent of total possible scores. The one exception was for Fashion and Fabrics, level two. The mean was 28.88 with a possible score of 59. Of the total of 196 items, 54 items need improvement to meet item level difficulty. Of the 54 items, 46 were above 0.80 level of difficulty. Since this is a mastery test, these 46 items definitely should be re-examined.

The reliabilities for the CCPA were calculated for each content area. The test for internal consistency was the Kuder - Richardson. The number of items per content area was used. The reliabilities for each area of the CCPA were:

Area	R
Fashion and Fitting, level 1	0.728
Fashion and Fitting, level 2	0.257
Fiber and Fabrics, level 2	0.757
Sewing Equipment, level 1	0.766
Sewing Equipment, level 2	0.780
Clothing Construction, level 1	0.895
Clothing Construction, level 2	0.857
Clothing Care, level 2	-0.480

TABLE 13

Item level of difficulty for Clothing Construction,
levels one and two.

Level one (N=184)		Level two (N=103)	
Item No.	% of D	Item No.	% of D
1	30.7	1	87.1
2	64.7	2	58.4
3	56.7	3	58.0
4	57.1	4	76.5
5	63.4	5	68.3
6a	91.8	6	47.1
6b	91.8	7a	84.3
7	88.0	7b	53.9
8	91.3	7c	14.7
9	90.8	7d	42.2
10	77.2	8a	87.3
11	71.6	8b	100.0
12	71.2	8c	39.2
13	83.0	9	85.3
14	77.2	10a	41.1
15	70.5	10b	69.6
16	43.2	11	74.3
17	60.6	12	57.0
18	45.7	13	79.2
19a	62.9	14a	48.0
19b	40.5	14b	53.0
19c	51.0	15	73.5
19d	26.4	16	55.9
20	49.2	17	69.6
21	77.6	18	86.3
22	71.0	19	90.1
23	80.5	20	88.0
24	80.4	21	90.4
25	65.4	22	86.7
26	65.2	23	66.3
27	72.8	24	88.1
28a	80.2	25	75.0
28b	22.6	26	77.4
28c	72.3		
29	64.6		
30	78.8		
31	82.1		
32	59.2		
33	58.2		
34	85.6		
35	87.2		

$\overline{X}$ = 26.348 $\overline{X}$ = 21.194
SD = 8.616   SD = 6.705
SE = 0.635   SE = 0.661

TABLE 14

Item level of difficulty for Clothing Care,
level one.

Level one (N=125)	
Item No.	% of D
1	91.8
2	93.2
3	85.7
4	94.6
5	91.2
6	75.5
7a	74.1
7b	25.2
8	7.6
9	14.4
10	26.0
11	61.9

$$\overline{X} = 7.120$$
$$SD = 1.418$$
$$SE = 0.127$$

It is evident that two of the areas, Fashion and
Fitting, level 2, and Clothing Care, level 2, need further
development to increase the reliabilities. Considering the
relatively few items in each of the content areas, the
reliabilities are very respectable with the two exceptions
noted. Fashion and Fitting, level two, also contained six
poor items in the 17-item test. Clothing Care, level two,
had seven poor items out of a total 11-item test. It is
quite evident that these two tests need extensive revision.

As the outside criterion of student ability, each
respondent was rated by her/his respective teacher. A
three-point rating scale was used (see Appendix G). If
students took more than one content area and/or more than
one level, only one ability rating was given. Teachers felt

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that attempting to do more than one rating for these students
was not realistic. Teachers' ratings for students taking
the various sections of CCPA are given .in Table 15. The .
range of mean average ratings for all students was·1.24 to
2.20. The lowest mean ratings were in Fashion and Fitting, .
levels one and two, and Fiber, level .two. Usually, these
content areas are not emphasized for beginning students. No
mean rating of ·a group of students was above average by more
than 0.36. In seven instances the mean ratings of groups
were below average of the total of 14 group ratings.

TABLE 15

Teacher ratings of ·students for CCPA content areas.

Content Areas	Educational level							
	Jr		Sr		13-14		Total	
	N	%	N	%	N	%	N	%
Fashion and Fitting, level one								
Below average	6	35.3	11	27.5	8	20.0	25	25.8
Average	4	23.5	20	50.0	27	67.5	51	52.6
Above average	7	41.2	9	22.5	5	12.5	21	21.6
Total	17	100.0	40	100.0	35	100.0	97	100.0
$\overline{X}$	2.176		1.975		1.925		1.990	
SD	1.074		0.768		0.572		0.757	
SE	0.261		0.381		0.090		0.077	
Fashion and Fitting, level two								
Below average	-	--	21	77.8	-	--	21	75.9
Average	-	--	6	22.2	-	--	6	24.1
Above average	-	--	-	--	-	--	-	--
Total			27	100.0			27	100.0
$\overline{X}$			1.414				1.241	
SD			0.650				0.435	
SE			0.085				0.081	

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TABLE 15--(CONTINUED)

Content Areas	Educational level							
	Jr		Sr		13-14		Total	
	N	%	N	%	N	%	N	%
Fiber and Fabric, level two								
Below average	-	--	39	67.2	-	--	39	67.2
Average	-	--	14	24.1	-	--	14	24.1
Above average	-	--	5	8.7	-	--	5	8.7
Total			58	100.0			58	100.0
$\overline{X}$			1.414				1.414	
SD			0.650				0.650	
SE			0.085				0.085	
Sewing Equipment, level one								
Below average	8	47.1	14	17.7	-	--	22	22.9
Average	4	23.5	36	45.6	-	--	40	41.7
Above average	5	29.4	29	36.7	-	--	34	35.4
Total	17	100.0	79	100.0			96	100.0
$\overline{X}$		1.824	2.190				2.125	
SD		0.883	0.717				0.757	
SE		0.214	0.081				0.077	
Sewing Equipment, level two								
Below average	-	--	8	21.6	13	18.6	24	21.4
Average	-	--	17	45.9	42	60.0	59	52.7
Above average	-	--	12	32.5	15	21.4	29	25.9
Total			37	100.0	70	100.0	112	100.0
$\overline{X}$			2.108		2.029		2.045	
SD			0.737		0.636		0.690	
SE			0.121		0.076		0.065	

TABLE 15--(CONTINUED)

Content Areas	Educational level							
	Jr		Sr		13-14		Total	
	N	%	N	%	N	%	N	%
Clothing Construction, level one								
Below average	10	20.8	9	15.5	-	--	19	17.9
Average	21	43.8	30	51.7	-	--	51	48.1
Above average	17	35.4	19	32.8	-	--	36	34.0
Total	48	100.0	58	100.0			106	100.0
$\overline{X}$		2.146		2.172				2.160
SD		0.743		0.679				0.706
SE		0.107		0.089				0.069
Clothing Construction, level two								
Below average	-	--	1	3.3	13	18.6	18	16.8
Average	-	--	17	56.7	42	60.0	60	56.1
Above average	-	--	12	40.0	15	21.4	29	27.1
Total			30	100.0	70	100.0	107	100.0
$\overline{X}$				2.367		2.049		2.103
SD				0.556		0.636		0.658
SE				0.102		0.076		0.064
Clothing Care, level one								
Below average	-	--	13	16.5	-	--	13	16.5
Average	-	--	37	46.8	-	--	37	46.8
Above average	-	--	29	36.7	-	--	29	36.7
Total			79	100.0			79	100.0
$\overline{X}$				2.203				2.203
SD				0.705				0.705
SE				0.079				0.079

CONCLUSIONS AND RECOMMENDATIONS

The conclusions are limited to the specific parameters of the study. No generalizations are made beyond the sample. Appropriateness of application to similar situations is left to the reader.

The conclusions were as follows:

1. All educational levels, junior, senior high, 13-14 grades, had a diverse background of instruction and experience in clothing construction. Within each educational group there were inexperienced and experienced students in construction.

2. Within all groups there was a broad range in use of sewing equipment, including special features and attachments on sewing machines.

3. All students seemed to be more experienced in seam construction, hand stitches, and edge finishes than other construction processes.

4. No judgment was made as to standard of construction except what was demonstrated in psychomotor tasks.

5. Level of test achievement was directly proportional to educational level.

6. Content areas of sewing equipment and clothing construction had highest achievement levels of all content areas.

7. Psychomotor achievement was generally higher than cognitive achievement.

8. Class length of 45 to 60 minutes provided adequate time for administering various content sections of CCPA with the exception of psychomotor.

9. A challenge test in clothing construction was feasible within concerns for time, division of content, administration, grading, cognitive and psychomotor skills.

10. The CCPA demonstrated definite potential of meeting its purpose. All content areas of the CCPA, with the exception of two, Clothing Care and Fiber and Fabric, level two, could be used in its present form.

The recommendations are divided into two sections. The first presents recommendations that deal with curriculum.

The second is directed to the CCPA instrument.

In regard to curriculum, the following recommendations are given:

1. Some kind of pretesting is essential to differentiate the experience and abilities of students.

2. Individualized instruction is inevitable if duplication of learning is to be avoided.

3. Articulation of curriculum among various educational levels needs to be furthered.

4. If any course or unit exemption is to be feasible, the curriculum must be structured with comparable units or courses.

Recommendations for the CCPA are:

1. Revision of various content areas should be continued until appropriate reliabilities are achieved.

2. Third levels of content areas should be developed wherever necessary.

3. CCPA be adapted for non-readers and bilingual students.

4. Implementation procedures be amplified and refined.

5. CCPA be initiated at community college and universities within the coming year.

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College, Rock Hill, South Carolina, 1972. Interlibrary loan.

Marshall, Ruth Hope. The Development of a Pre-Test and an Investigation
of the Contribution of Other Evaluative Devices for Appraising the
Competencies of Beginning Clothing Students. Master's. University
of Tennessee, 1967. Interlibrary loan.

Souligny, Dorothy and Grovalynn Sisler. "Analysis of Clothing Exemption
Test Scores at Oklahoma State University". Journal of Home Economics,
Vol. 64. 1972.

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Measurement of Achievement in Clothing Construction at the High
School Level. Unpublished Master's. Michigan State University, 1968.

APPENDIX A

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CLOTHING CONSTRUCTION PERFORMANCE ASSESSMENT

Rita Allen
Maryvale High School
3415 N. 59th Avenue
Phoenix, Arizona

Barbara Border
Arizona Department of Education
Division of Vocational Education
1535 West Jefferson
Phoenix, Arizona   85007

Susan Few
Cortez High School
8828 North 31st Avenue
Phoenix, Arizona   85021

Karen Lattin
9009 North 33rd Place
Phoenix, Arizona   85028

Sylvia Phillips
10601 N. 35th Street
Phoenix, Arizona

Sue Pew
Chandler High School
350 North Arizona Avenue
Chandler, Arizona   85224

Marianne Taylor
Mesa High School
1630 East Southern Avenue
Mesa, Arizona   85204

Jo Wilson
Mesa Community College
1833 West Southern Avenue
Mesa, Arizona   85201

Alma Brown
Glendale Community College
6000 West Olive Avenue
Glendale, Arizona   85301

Margaret V. Barkley
Home Economics Department
Arizona State University
Tempe, Arizona

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January 19, 1976

Dear

Thank you for indicating that you will serve on the advisory committee
for the inservice curriculum project for clothing and textiles.

Our first meeting has been confirmed for Tuesday afternoon, January 27
at 3:30 p.m. in room 214 of the home economics building here at A.S.U.

Agenda for the session:

    a. Overview of the project
    b. Plans for other meetings
    c. Discussing and answering your questions; such as reimbursements.

We look forward to working with you.

Sincerely,

Elizabeth Monts
Professor of Home Economics

Betty Hunter
Assistant Professor of Home Economics

January 29, 1976

Dear

Sorry you were unable to attend the first meeting of the
advisory committee for the inservice curriculum project for
clothing and textiles.

The meeting included:

a. Barbara Border gave a review of the textiles and
    clothing curriculum progress to date.
b. Materials were handed out and discussed. Your copies
    are included.
c. Charges to the advisory committee were made including:
    1. Finalizing levels of competencies for each major
        concept and supporting goals.
    2. Deciding on competencies to be tested, including
        proportion of emphasis for each competency. The
        developing of appropriate items, validating by
        judgment, field testing, revising and planning
        for implementation will be our responsibilities.
d. A work plan was discussed and tentative meeting times
    were established for: Friday, February 13, 20 and 27
    from 8:30 A.M. to 4:00 P.M. in the dining room of the
    home economics building at A.S.U.
e. Substitute pay or per diem is available up to $30.00
    per day.

Of those attending, the unanimous decision was for a school
day meeting rather than an evening or Saturday one. If you
feel that it is impossible for you to make the time commit-
ment, please let us know as soon as possible because the
initial stage of the curriculum should be finalized by the
end of February.

Sincerely,

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APPENDIX B

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JURY PANEL FOR

CLOTHING CONSTRUCTION PERFORMANCE ASSESSMENT

Sandy Hutton
5603 S. Doubloon Court
Tempe, Arizona

Mary Ann Prust
2133 E. Golf Avenue
Tempe, Arizona

Jan Reed
Powell Junior High School
855 West 8th Avenue
Mesa, Arizona

Betty Ann Solomon
Star Route 1
Village of Oak Creek
Sedona, Arizona

Dori Wegner
937 E. Broadmor
Tempe, Arizona

Judy Farrar
Poston Junior High School
Mesa, Arizona

Barbara Smith
Tempe High School
Tempe, Arizona

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APPENDIX C

47

MATRIX MODEL

LEARNINGS

```
 _____
|\                                  \
| \                                  \
|  \                                  \
|3rd_____    \
|lev\el|              |              |   |
|   |  |              |              |   |
|2nd|  |              |              |   |
|lev|el|  COGNITIVE   |  PSYCHOMOTOR |   |
|   |  |              |              |  /
|1st|  |              |              | /
|lev|el|              |              |/
|___|__|_____|_____|
```

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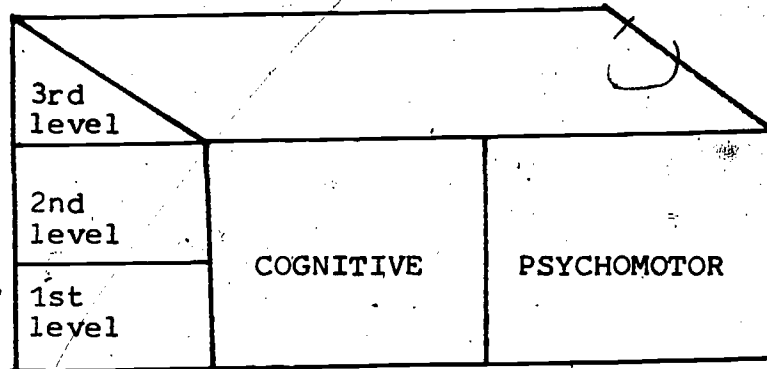
2.0 FASHION & FITTING						LEVEL I		
COMPETENCIES	Subject Matter	Psychomotor	Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation
2.1 Identifies the effect that color has on enhancing individual. 40%			8					
2.2 Identifies the effect that line and design have on an individual and his/her figure type. 40%			8					
2.3 Identifies the effect that texture of fabrics has on an individual and his/her figure type. 20%			3					
2.4 Identifies and applies design principles to coordinate one (total look) outfit.								

2.0 FASHION & FITTING								LEVEL II	

COMPETENCIES	Subject Matter	Psychomotor	Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation
2.1 Analyzes effect of color on self and others in terms of emotional appeal. 25%			4					
2.2 Analyzes the effect that use of line and design have on creating a desired optical illusion. 50%			9					
2.3 Analyzes the effect of texture or fabrics on garment appearance and appropriateness for figure type. 25%			4					
2.4 Identifies and applies design and line principles in choosing a wardrobe for self which is suitable for a variety of activities.								

3.0 FIBER & FABRIC						LEVEL II				
COMPETENCIES			Subject Matter	Psychomotor	Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation
3.1	Natural fibers	15%			6					
3.2	Man-made beginning	20%			12					
3.3	Fiber blends	15%			5					
3.4	Various yarns and construction processes.	15%			6					
3.5	Weaves and knits selvage bias grain	15%			7					
3.6	Color and design application dyeing printing hand painted etc.	5%			4	1				

3.0 FIBER & FABRIC				LEVEL II					
COMPETENCIES	Subject Matter	Psychomotor	Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation
3.7 Finishing processes. 5%			3					
3.8 Appearance, hand and texture. 5%			2					
3.9 Textile legislation. 5%			2					

4.0 SEWING EQUIPMENT				LEVEL I					
COMPETENCIES		Subject Matter	Psychomotor	Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation
4.7 Pressing	15%			3					
4.8 Sewing machine	20%			5					
4.9 Machine use	5%			5					
4.10 Use and care	5%			1					

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4.0 SEWING EQUIPMENT				LEVEL II					
COMPETENCIES		Subject Matter	Psychomotor	Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation
4.1 Hand sewing	5%			1					
4.2 Measurement	0%			0					
4.3 Attachments and securing	10%			1					
4.4 Cutting	20%			3					
4.5 Transferring	0%			0					
4.6 Special sewing tools	25%			5					

4.0 SEWING EQUIPMENT		LEVEL II							
COMPETENCIES		Subject Matter	Psychomotor	Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation
4.7 Pressing	10%			2					
4.8 Sewing machine	10%			2					
4.9 Machine use	20%		4	2					
4.10 Use and care	0%			0					

5.0 CLOTHING CONSTRUCTION				LEVEL I				
COMPETENCIES	Subject Matter	Psychomotor	Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation
5.7 Transfers pattern marking 7%			2					
5.8 Stabilizing 7%			2					
5.9 Shaping and molding 7%			2					
5.10 Edge finishes 4%			1					
5.11 Join fabric pieces, trimming, clipping, understitching 7%		1	0					
5.12 Trimming, clipping and understitching 7%			2					

5.0 CLOTHING CONSTRUCTION				LEVEL I				
COMPETENCIES	Subject Matter	Psychomotor	Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation
5.7 Transfers pattern marking 7%			2					
5.8 Stabilizing 7%			2					
5.9 Shaping and molding 7%			2					
5.10 Edge finishes 4%			1					
5.11 Join fabric pieces, trimming, clipping, understitching 7%		1	0					
5.12 Trimming, clipping and understitching 7%			2					

5.0 CLOTHING CONSTRUCTION						LEVEL I		
COMPETENCIES	Subject Matter	Psychomotor	Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation
5.13 Fasteners and closures 4%			1					
5.14 Hems 4%		1	0					
5.15 Hand stitches 12%		1	4					
5.16 Pressing 0%		0						

5.0 CLOTHING CONSTRUCTION   LEVEL II

COMPETENCIES		Subject Matter	Psychomotor	Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation
5.1	Pattern interpretation 10%			2					
5.2	Pattern fitting 5%			1					
5.3	Alteration 5%			1					
5.4	Prepares pattern for layout 0%			0					
5.5	Layout and attach pattern on fabric 5%			1					
5.6	Cutting pattern 0%		1	0					

5.0 CLOTHING CONSTRUCTION				LEVEL II				
COMPETENCIES	Subject Matter	Psychomotor	Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation
5.7 Transfers pattern marking 9%		1	3					
5.8 Stabilizing 5%			1					
5.9 Shaping and molding 20%			5					
5.10 Edge finishes 10%		1						
5.11 Join fabric pieces, trimming, clipping, understitching 15%		2	1					
5.12 Trimming, clipping and understitching 0%		1	0					

5.0 CLOTHING CONSTRUCTION				LEVEL II				
COMPETENCIES	Subject Matter	Psychomotor	Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation
5.13 Fasteners and closures 10%		2	0					
5.14 Hems 4%		1	1					
5.15 Hand stitches 7%		2						
5.16 Pressing 2%			1					

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6:0 CLOTHING CARE				LEVEL Í				
COMPETENCIES	Subject Matter	Psychomotor	Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation
6.1 Labels			5					
6.2 Others			6					

APPENDIX D

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Gilbert High School
140 S. Gilbert Road
Gilbert, Arizona

Marcos De Niza High School
6000 South Lakeshore Drive
Tempe, Arizona

Glendale High School
6216 West Glendale Avenue
Glendale, Arizona

McKemy Junior High School
2250 South College Avenue
Tempe, Arizona

Thunderbird High School
1750 W. Thunderbird Road
Phoenix, Arizona

Emerson Elementary
1817 N. 7th Street
Phoenix, Arizona

Kenilworth Elementary
1210 N. 5th Avenue
Phoenix, Arizona

Arizona State University
Tempe, Arizona

APPENDIX E

65

ARIZONA STATE
UNIVERSITY

OFFICE OF RESEARCH GRANTS AND CONTRACTS

M E M O R A N D U M

May 3, 1976

TO: Mrs. Betty Hunter
         Department of Home Economics

FROM: H. B. Hunnicutt

SUBJECT: Research Project Involving Human Subjects

The University Interdisciplinary Committee on Human Experimentation has
approved your application for the project entitled "Clothing Construction
Performance Assessment."

We are enclosing a copy of the ASU Rules Governing the Participation of
Human Beings in Research for your information and future reference. Please
sign below indicating your willingness to comply with these procedures and
return one copy to us for your files.

HBH:js

Enclosure

_____
Betty Hunter

Date _____

APPENDIX F

67

Dear

The competency based Clothing and Textiles Curriculum Guide is in
the final stage of development.

We are now ready to validate and refine an instrument for testing
basic clothing construction, utilizing competency based standards
for first, second and third levels.

Would you participate as a field site and have your students test
the instrument? No names but numbers will be used and any human
risk factors have been cleared through the University.

The items will be delivered and either you or I can administer them.
Grading, etc., will be completed here at A.S.U. March is anticipated
for the first field tests and you will receive $15 for your partici-
pation. Your students will only need sewing equipment such as,
scissors, pins, tape measure, etc. We will furnish the fabric,
thread and any notions.

If you have any questions, please feel free to call me at my office
number 965-7781 or call the main office 965-3270 and leave a message.

We realize that you have a full teaching schedule but the value of
your cooperation cannot be underestimated. You will be called for
your response.

Thank you for any consideration you can give this request.

Sincerely,

Betty Hunter
Project Director
Arizona State University

RESPONSE SHEET FOR FIELD TEST PLANNING   DATE _____

SCHOOL:_____   _____   _____

PHONE:_____

TEACHER:_____

Total Enrollment in Clothing Classes _____

Levels   _____

Semester   _____

Other   _____

Length of Class Period _____

Schedule   M   Tu   W   Th   F

_____

_____

_____

_____

Vacation Time_____

How far in advance do you need to be notified? _____

_____

Do you prefer giving it?_____

Administrative Approval:_____

Dear

Enclosed is the information concerning a request that I am making
to involve some students of the Gilbert district to assist with validat-
ing and refining a Clothing Construction Performance Assessment. If you
need additional information, please let me know. My phone is 965-7781.

> Enclosures:
> > Protocol of Project
> > Safety Measures
> > Letter to teacher
> > Letter to parent
> > Consent form

Would you please present this to your next Board of Education meeting and
inform me of their decision.

Thank you very much for your assistance.

Sincerely yours,

Betty Hunter, Assistant Professor
Home Economics Department
Arizona State University

BH:dh
Encl.

Dear Parent:

A competency based Clothing and Textile curriculum guide for Arizona Schools is in the final stage of development. We are ready to validate and refine an instrument for testing basic clothing construction skills and processes utilizing competency based standards for first, second, and third levels of achievement. In order to assess the value of the tests, it should be used by students.

Each student's identity will remain anonymous. The project is under the direction of Mrs. Betty Hunter, Department of Home Economics, Arizona State University, where the scoring and analysis will be completed.

If for any reason, you do not wish your child to participate, please sign the enclosed form and have him/her return it to the home economics teacher.

Thank you for your consideration given to this request.

Sincerely,

Betty Hunter, Assistant Professor
Home Economics Department
Arizona State University

CONSENT FORM FOR CLOTHING

ASSESSMENT PROJECT

I, _____, the (Father, (Mother),

(Legal Guardian) do not wish to have _____,

a minor, participate in the study.

Date _____

Signature _____

Witness _____
    (May be any adult)

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APPENDIX G

Date_____

CLOTHING CONSTRUCTION PERFORMANCE ASSESSMENT
RATING SHEET

Directions: Please rate each student as to your perception of his or her ability for the specific content area. Carefully check to make certain that the student code number is the same on both answer and rating sheets. Student is identified only by number not by name.

Content Area_____ Level_____

	Below Average	Average	Above Average
Example Code Number_1		✓	

Code Number	Below Average	Average	Above Average

APPENDIX H

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CLOTHING CONSTRUCTION PERFORMANCE ASSESSMENT

Grading Criteria for Psychomotor (Task I-IV)

Code No._____

Date_____

4.   Sewing Equipment - Level II

      Scale 0 to 3 - 0 = none
                     1 = below average
                     2 = average
                     3 = above average

Record on answer sheet: Mark A if 1.4 or less
                           Mark B if 1.5 or above

4. 1-15. I.   <u>Edge Finish</u>

Appropriate stitch............

Evenness of stitch
    (size, tension, neatness)..

Placement................

Total Score_____ $\frac{\text{Total Score}}{3}$ = $\frac{\text{Average}}{\text{Score}}$_____

4. 1-16. II.   <u>Darning</u>

Appropriate stitch............

Evenness of stitch
(size, tension, neatness,
    area filled)..............

Placement (hole covered)......

Total Score_____ $\frac{\text{Total Score}}{3}$ = $\frac{\text{Average}}{\text{Score}}$_____

4. 1-17. III.   <u>Machine Blind Stitch</u>

Appropriate stitch............

Evenness of stitch (size,
    tension on both wrong
    and right sides)...........

Placement....................

Total Score_____ $\frac{\text{Total Score}}{3}$ = $\frac{\text{Average}}{\text{Score}}$_____

4. 1-18. IV.   <u>Top Stitching</u>

Appropriate stitch............

Evenness of stitch (length,
    tension)...................

Placement....................

Total Score_____ $\frac{\text{Total Score}}{3}$ = $\frac{\text{Average}}{\text{Score}}$_____

CLOTHING CONSTRUCTION PERFORMANCE ASSESSMENT

Grading Criteria for Psychomotor (Task V-VI)

Code No._____

Date_____

5.   Clothing Construction - Level I

Scale 0 to 3 - 0 = none
                1 = below average
                2 = average
                3 = above average

Record on answer sheet: Mark A if 1.4 or less
                          Mark B if 1.5 or above

5. 1-34. V. <u>Hand Stitches</u>

       Raw edge turned.................

       One inch hem (width & even).....

       Appropriate stitch
          (whip & slip)..............

       Evenness of stitch
          (length & tension)........

       Placement......................

       Outside appearance.............

                                <u>Total Score</u> Average
     Total Score_____   6   = Score_____

5. 1-35. VI. <u>Machine Stitching</u>

       5/8 inch seam allowance........

       Evenness of stitch
          (length, tension)...........

       Placement (square corner)......

                             <u>Total Score</u> Average
     Total Score_____   3   = Score_____

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CLOTHING CONSTRUCTION PERFORMANCE ASSESSMENT

Grading Criteria for Psychomotor (Task VII-XIII)

Code No._____

Date_____

5.   Clothing Construction - Level II

Scale 0 to 3 - 0 = none
                1 = below average
                2 = average
                3 = above average

Record on answer sheet: Mark A if 1.4 or less
                          Mark B if 1.5 or above

5. II.
(20. VII)

Hand Stitches

One inch hem allowance
   (even width and size)........

Catch stitch....................

Blind stitch...................

Evenness of stitch
   (length and tension).........

Placement.......................

Appropriate outside appearance...

Total Score_____ $\dfrac{\text{Total Score}}{6}$ = Score_____ Average

5. II.
(21. VIII)

Cutting and Joining Bias Fabric
   Pieces

2 inch wide.....................

Bias cut........................

Seam--bias direction............

Evenness of stitches
   (length and tension).........

Continuous strip................

Edges smoothly cut..............

Total Score_____ $\dfrac{\text{Total Score}}{6}$ = Score_____ Average

5. II.
(22. IX)

Closure - Lap Zipper

Lap size (approximately ½ inch)..

Lap covers teeth, slide and
   under stitches...............

Lap fold smooth (without picks
   or cuts).....................

Underside of lap permanently
   attached.....................

Evenness of top stitching........
   (length and tension)

Neatness - pressing (lower edge).

Total Score_____ $\dfrac{\text{Total Score}}{6}$ = Score_____ Average

5. II.   Closure - Buttonhole   61
(23. X)   (hand or machine)

                     Appropriate stitch................

                     Evenness of stitch.............

                     Appropriately cut...............

                                          Total Score   Average
                 Total Score_____   3   = Score_____

5. II.   Joining - Fabric Pieces
(24. XI)
                 Appropriate seam (flat-fell or
                   French).......................

                 Appropriate width (continuous)...

                 Evenness of stitch
                   (length and tension)..........
                                          Total Score   Average
                 Total Score_____   3   = Score_____

5. II.   Pattern Marking - Tailor Tack
(25. XII)
                 Appropriate stitch (size and
                   length).....................

                 Placement.....................

                 Cutting.......................
                                          Total Score   Average
                 Total Score_____   3   = Score_____

5. II.   Joining - Fabric Pieces
(26. XIII)
                 Evenness of stitch (length
                   and tension)................

                 Clipping, layering, or grading..

                 Neatness - pressing.............
                                          Total Score   Average
                 Total Score_____   3   = Score_____

APPENDIX I

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May 17, 1976

Information and Directions for Teachers Participating in Field Testing:

1. Code number (1-1001 for [...] High; 200-2001 for Sr. High; 3-400 for grades 13-14) is [...] on each answer sheet in the identification blank. Please [...] h student to fill in or darken the appropriate spaces in [...] ntification block. This includes writing the number in [...] block of spaces on the left side of that unit.

[...] answers should be recorded on the answer sheets; not the test.

[...] r evaluation of the students' ability should be made for each content area that the students take. Use same code numbers but evaluate for the specific content area.

4. File folders are provided for answer sheets, background experiences, and each content area. Fabric, thread and notions are provided for psychomotor tasks.

5. A consent form must be sent home with each student.

6. Enclosures:
   Coding and Rating forms
   Folders for answer sheets
   Pencils

7. Please include your social security number and address so that we may process your stipend.

8. Thank you very much and you may call for me to pick up all of the materials. The best number to call would be the main office of Home Economics, 965-3270, and leave a message.

Dear

Enclosed are copies of the Clothing Construction Performance
Assessment instruments. These have been developed from the con-
cept that if a student can demonstrate minimum level of competen-
cies for both cognitive (paper and pencil) and psychomotor (task
performance), then the student should be able to move on to new
learnings. The results of student performence will enable the
teacher to make best use of new experiences for the student.

The instruments utilize the new textile and clothing curriculum
guides that will be available for all teachers this fall (anti-
cipate in August). Many teachers have been involved in establish-
ing the basic areas to be included. These areas are: fashion and
fitting, fiber and fabric, sewing equipment, clothing construction,
and clothing care. In addition, the competencies for each area
were delineated. From these competencies, items were developed
and validated by a jury panel of teachers for three levels of
learning. Throughout this entire process, teachers from junior/
senior high and community colleges have been consulted.

Specifically, the Clothing Construction Performance Assessment
includes:

Background Experience	Items	1-25
2. Fashion and Fitting		
Level I	Items	1-19
Level II	Items	1-17
3. Fiber and Fabric		
Level II	Items	1-47
4. Sewing Equipment		
Level I	Items	1-23
Level II	Items	1-18
5. Clothing Construction		
Level I	Items	1-35
Level II	Items	1-26
6. Clothing Care		
Level I	Items	1-11

Thank you very much for your assistance.

Sincerely yours,

Betty Hunter
Project Director
Arizona State University

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Dear

The field testing for the Clothing Construction Performance
test is completed and has been very successful.

My sincere thanks go to you, your students and your
administration for giving time, energies and expertise for
testing the instrument.

We feel very confident that the outcome of the project
will benefit both the teacher and her students. When the
student demonstrates minimum level of competencies for
both the cognitive (paper and pencil) and psychomotor (task
performance) then the student should be able to move on to
new learnings.

Again, thank you very much for your assistance. Your
consultant fee is being processed and should be received
during June.

Sincerely yours,

Betty Hunter
Project Director
Arizona State University

APPENDIX J

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CLOTHING CONSTRUCTION PERFORMANCE ASSESSMENT

Identification Number _____ Date _____

STUDENT BACKGROUND EXPERIENCES

Directions:

1. If you <u>have not</u> had any clothing construction classes, courses
   or learning experiences, do not complete this material. Please
   return to teacher.

2. If you have had <u>any</u> learning experiences related to clothing construction,
   complete items 1 - 25.

3. Use a lead pencil and black out the appropriate space on the answer
   sheet. You may have more than one answer for some of the questions.

4. When you have completed the questionnaire return it and the answer
   sheet to the teacher.

Example: Questionnaire 1. How many clothing construction classes have you
had at school?

A. 0
B. 1
C. 2
D. 3
E. 4

Answer Sheet
(One is my answer) A. ===
B. ===
C. ===
D. ===
E. ===

---

1. What is the total number of clothing construction courses that you
   have taken in school?

   A. 0
   B. 1
   C. 2
   D. 3
   E. 4

2. How many courses of clothing construction have you taken from places
   outside of school such as 4H, Stretch and Sew stores and/or machine
   companies?

   A. 0
   B. 1-2
   C. 3-6
   D. 7-10
   E. 11 or more

3. Have you learned about clothing construction from any other sources (such as your family, neighbor, and/or self-taught)?

    A. No
    B. Yes
    C. If yes, little
    D. If yes, some
    E. If yes, great deal

4. How much sewing do you do?

    A. Make none of my clothes
    B. Make some of my clothes
    C. Make most of my clothes
    D. Sew for others

5. What types of fabrics have you used for clothing construction?

    A. Woven
    B. Knits
    C. Fur
    D. Others

Approximately how many kinds of garments have you made? (Items 6 - 9)

6. Blouses/tops?

    A. 0
    B. 1-2
    C. 3-4
    D. 5-6
    E. more

7. Pants/shorts?

    A. 0
    B. 1-2
    C. 3-4
    D. 5-6
    E. more

8. Dresses/robes?

    A. 0
    B. 1-2
    C. 3-4
    D. 5-6
    E. more

9. Other garments?

    A. 0
    B. 1-2
    C. 3-4
    D. 5-6
    E. more

How many processes have _you_ completed? (Items 10-17)

10. Zippers?

    A. 0
    B. 1-2
    C. 3-6
    D. 7 or more
    E. Can not answer. Do not understand.

11. Collars?

    A. 0
    B. 1-2
    C. 3-6
    D. 7 or more
    E. Can not answer. Do not understand.

12. Set-in sleeves?

    A. 0
    B. 1-2
    C. 3-6
    D. 7 or more
    E. Can not answer. Do not understand.

13. Machine buttonholes?

    A. 0
    B. 1-2
    C. 3-6
    D. 7 or more
    E. Can not answer. Do not understand.

14. Bound buttonholes?

    A. 0
    B. 1-2
    C. 3-6
    D. 7 or more
    E. Can not answer. Do not understand.

15. Patch pockets?

    A. 0
    B. 1-2
    C. 3-6
    D. 7 or more
    E. Can not answer. Do not understand.

16. Underlinings - backings?

    A. 0
    B. 1-2
    C. 3-6
    D. 7 or more
    E. Can not answer. Do not understand.

17. Linings?

    A. 0
    B. 1-2
    C. 3-6
    D. 7 or more
    E. Can not answer. Do not understand

Mark if you have __made__ at least one and/or __used__ one. (Items 18 - 24)

18. Seams?

    A. Flat Fell
    B. French
    C. Lap
    D. Plain
    E. Piped

19. Fabrics?

    A. Woven
    B. Plaids
    C. Knits
    D. Nap

20. Machine attachments?

    A. Hemmer foot
    B. Pleater
    C. Seam and hem guide
    D. Binder
    E. Others

21. Equipment?

    A. Tailor's ham
    B. T-square
    C. Seam board and point presser
    D. Needle board
    E. Clapper

22. Hand stitches?

    A. Slip
    B. Catch
    C. Buttonhole
    D. Running or blind
    E. Others

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23. Edge finishes?

    A. Zig-zag
    B. Bound
    C. Stitched
    D. Clean finish
    E. Others

24. Pattern alterations?

    A. None
    B. Some
    C. Many

25. Do you complete garments that you start?

    A. Never
    B. Sometimes
    C. Almost always
    D. Always

CLOTHING CONSTRUCTION PERFORMANCE ASSESSMENT

Date _____

2. FASHION AND FITTING - LEVEL I

ENCLOSURES:

Answer sheet

Experience Form

Written items __1__ through __19__
   including folders

   (items __O__ through __O__)

Task (performance) __O__ through __O__

   including folders __O__ through __O__

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2. FASHION AND FITTING - LEVEL I

DIRECTIONS:
A. Read each question and all possible answers.
B. When you have decided which answer(s) is correct, blacken the
   corresponding space on the answer sheet with a <u>pencil</u>.
C. Some questions have one answer; others have more than one answer.
D. When you have completed the test, return the test and answer sheet
   to your teacher.

1. Value of a color is:

   A. How color is applied
   B. How it feels or appears to feel
   C. The lightness or darkness of color
   D. The brightness or dullness of the color

2. The intensity of a color refers to:

   A. Brightness or dullness of the color
   B. The name of the color
   C. Tints of color
   D. Shades of color

3. On the color wheel, complimentary colors are:

   A. Opposite each other
   B. Next to each other
   C. Two colors away
   D. The same color

4. Tints and shades refer to:

   A. Hue
   B. Value
   C. Intensity
   D. Balance

5. Color that gives a feeling of coolness:

   A. Orange
   B. Red
   C. Blue
   D. Yellow

6. An object of light color as compared to the same size object of dark color
   will <u>appear</u>:

   A. Larger
   B. Smaller
   C. Same size

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7. An object of high color intensity as compared to the same size and color object of low intensity, will appear to be:

   A. Smaller
   B. Larger
   C. Same size

8. The most attention could be directed to a part of the body by using:

   A. The same color
   B. Contrasting colors
   C. Tints of the same color
   D. Shades of the same color

9. An object of vertical lines as compared to same size object of horizontal lines appears to be:

   A. Taller
   B. Shorter
   C. Wider
   D. Same

10. From the drawings, an example of informal balance is:

    A.
    B.
    C.
    D.
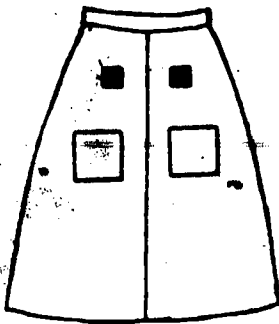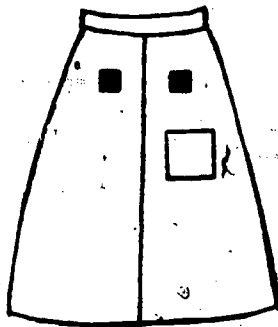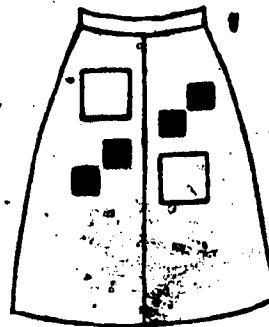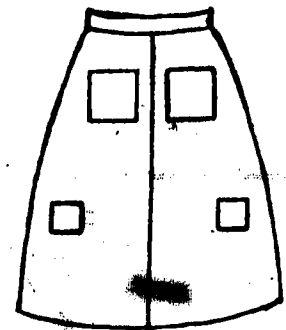
A.   B.   C.   D.

11. The line which appears to add the most length to a garment is one from the:

    A. Neckline to the waistline
    B. Neckline to the hemline
    C. Neckline to the hipline
    D. Waistline to the hemline

12. The combination of shapes in a design that would create harmony are:

   A. All different shapes
   B. Related shapes
   C. Unrelated shapes

13. The line for a short person who wishes to appear taller is a:

   A. Curved line
   B. Horizontal line
   C. Vertical line
   D. Diagonal line

14. A sense of motion in design is produced by:

   A. Emphasis
   B. Proportion
   C. Rhythm
   D. Balance

15. The center of interest of a garment is referred to as:

   A. Emphasis
   B. Proportion
   C. Rhythm
   D. Balance

16. A design is more visually pleasing if it is in:

   A. Four equal parts
   B. One part
   C. Two equal parts
   D. Unequal parts

17. Assuming that color and design of a garment are the same, the appearance
    of bulk would be decreased if the fabric texture is:

   A. Smooth
   B. Rough
   C. Clinging
   D. Nubby
   E. Fluffy

18. Surface quality of a fabric refers to:

   A. Texture
   B. Intensity
   C. Value
   D. Tint

19. Texture is created by the:

   A. Fiber, weave and color of fabric
   B. Color of the fabric
   C. Weave of the fabric
   D. Color and weave of the fabric

CLOTHING CONSTRUCTION PERFORMANCE ASSESSMENT

DATE _____

2. FASHION AND FITTING - LEVEL II

ENCLOSURES:

Answer Sheet

Experience Form

Written items __1__ through __4__
  including folders (2)

  (items __5__ through __17__)

Task (performance) __O__ through __O__

  including folders __O__ through __O__

2. FASHION AND FITTING - LEVEL II

DIRECTIONS:

A. Read each question and all possible answers.
B. When you have decided which answer(s) is correct, blacken the corresponding space on the answer sheet with a pencil.
C. Some questions have one answer; others have more than one answer.
D. When you have completed the test, return the test and answer sheet to your teacher.

NOTE: Items 1 through 4 are related to the following situation:

> It is the first day after the close of the spring semester and Jody is going for a job interview. She wears a navy blue pant suit, with a navy blue and gold striped neck scarf.

1. The navy blue color would make Jody appear to be:

A. Cooler
B. Warmer
C. No effect

2. Because navy blue will:

A. Reflect heat
B. Absorb heat
C. Have no effect

3. Jody selected an accent that would draw attention to:

A. Waist
B. Hips
C. Face
D. Legs

4. The principle of accent in color has been used by:

A. Change of color
B. Placement of color
C. Amount of color changes
D. Complimentary colors

SAMPLE 1

[velveteen box]

(velveteen)

Fabric A

[satin box]

(satin)

Fabric B

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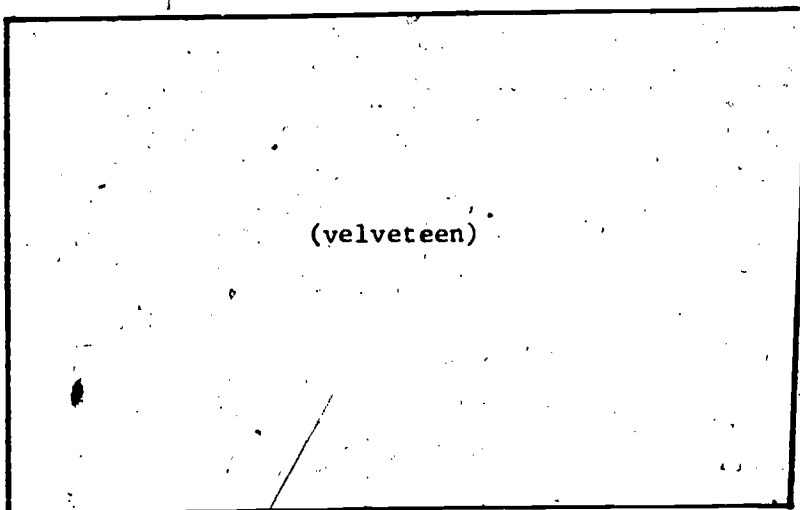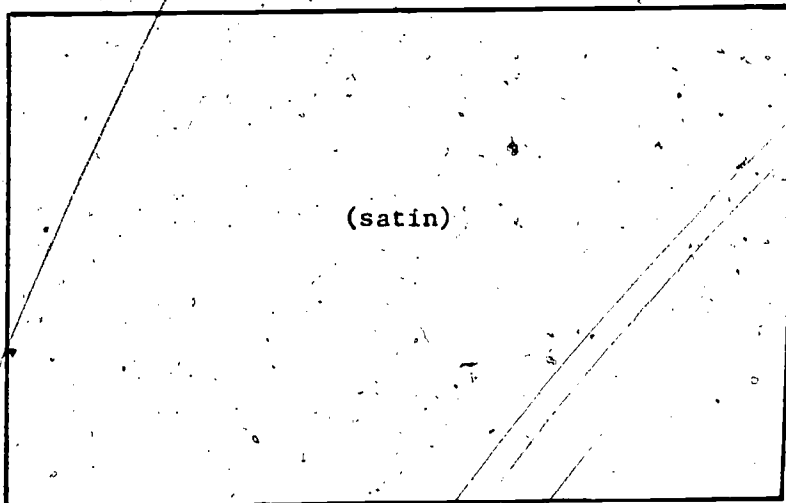
NOTE: Items 5 through 8 refer to the fabrics in Sample 1, fabric A. and B.

5. When comparing textures of same color satin and velvet, velvet is:

A. Softer
B. Harder
C. Smoother
D. Pebblier

6. This is an example of how texture is influenced by:

A. Weave
B. Pile
C. Finish
D. Color

7. If the same size and style pattern were made from each of the fabrics, the velvet would make one appear:

A. Larger
B. Smaller
C. None

8. Because:

A. Light reflection
B. Light absorption
C. Soft texture
D. Hard texture

NOTE: Items 9 through 17 are related to the following T-shirt designs.

1.

2.

3.

4.

DIAGRAM I

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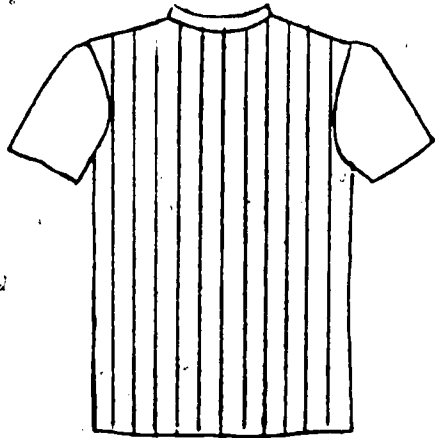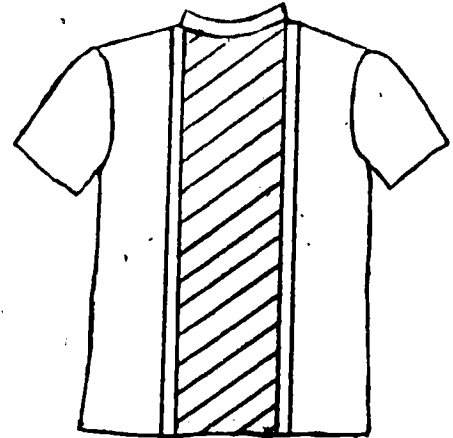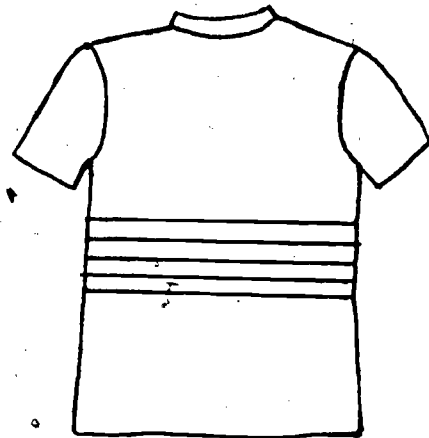
NOTE: Items number 9 through 17 refer to the T-shirt designs, diagram 1.

9. Rickie is making a T-shirt. If he selects pattern and design number 1, it will tend to make him appear:

   A. Taller
   B. Shorter
   C. Wider
   D. No difference

10. Because for T-shirt number 1, the design principle is:

    A. Vertical stripes add height
    B. Vertical stripes add width
    C. Wide, evenly spaced vertical stripes add width
    D. Narrow evenly spaced vertical stripes add height

11. If he chooses T-shirt number 2 pattern and design it will tend to make him appear:

    A. Taller
    B. Shorter
    C. No different

12. Because for T-shirt number 2 the principle is that the eye is attracted to:

    A. Side seams
    B. Center front
    C. Sleeves
    D. Lower edge
    E. No special place

13. If he chooses T-shirt number 4, he will emphasize:

    A. Chest
    B. Waist
    C. Height
    D. Shoulders

14. Because the stripes in number 4 will make the area appear:

    A. Larger
    B. Smaller
    C. No different

15. For T-shirt number 4, the principle is:

    A. Placement of lines
    B. Direction of lines
    C. Repeat of lines
    D. Lines follow silhouette

16. Informal balance is used in T-shirt(s):

    A. 1
    B. 2
    C. 3
    D. 4
    E. None

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17. Because informal balance is:

    A. Symmetrical
    B. Asymmetrical
    C. Non-symmetrical

DATE_____

3. FIBER AND FABRIC - LEVEL II

ENCLOSURES:

Answer sheet

Experience Form

Written items __1__ through __47__
    including folders

    (items __O__ through __O__)

Task (performance) __O__ through __O__

    including folders __O__ through __O__

DIRECTIONS:

A. Read each question and all possible answers.
B. When you have decided which answer(s) is correct, blacken the
    corresponding space on the answer sheet with a pencil.
C. Some questions have one answer; others have more than one answer.
D. When you have completed the test, return the test and answer sheet
    to your teacher.

1. Of the natural fibers, the least flammable is:

    A. Cotton
    B. Linen
    C. Wool

2. Of the natural fibers, the one that wrinkles the least is:

    A. Cotton
    B. Linen
    C. Wool

3. Of the natural fibers, the one most resistant to damage from moths and
    silverfish is:

    A. Cotton
    B. Linen
    C. Wool

4. The one natural fiber that loses the most strength when wet is:

    A. Cotton
    B. Linen
    C. Wool

5. Of the natural fibers, the one that presents the most problems with the
    removal of odor and soil is:

    A. Cotton
    B. Linen
    C. Wool

6. Cotton, wool, and linen have which of the following characteristics in
    common:

    A. Durability
    B. Flammability
    C. Absorbency
    D. Resiliency

7. The fiber having the greatest tensile strength is:

   A. Modacrylic
   B. Acrylic
   C. Nylon
   D. Orlon

8. The fiber having the highest resistance to abrasion is:

   A. Cotton
   B. Wool
   C. Nylon
   D. Orlon
   E. Acetate

9. Of the listed fabrics, the weakest is:

   A. Nylon
   B. Polyester
   C. Rayon
   D. Acetate
   E. Spandex

10. Comparing natural fibers with man-made fibers, the absorbency is:

    A. Greater for natural fibers
    B. Greater for man-made fibers
    C. The same for both man-made and natural fibers

11. The fiber most resistant to wrinkling is:

    A. Nylon
    B. Polyester
    C. Linen
    D. Rayon

12. The two fibers having greatest similarities of characteristics in the
    following pairs are:

    A. Arnel - triacetate
    B. Acetate - nylon
    C. Rayon - triacetate
    D. Arnel - nylon

13. Comparable blouses, except for fiber content, the blouse which would dry
    the quickest is:

    A. Cotton
    B. Wool
    C. Rayon
    D. Polyester

14. In comparison to the natural fibers, the man-made fibers are more resistant to:

    A. Mildew
    B. Silverfish and/or moths
    C. Moisture

15. The dimensional stability of polyester is:

    A. Excellent
    B. Good
    C. Fair
    D. Poor

16. Oil stains would be the most difficult to remove from:

    A. Wool
    B. Cotton
    C. Polyester
    D. Acetate

17. Rayon is characterized by:

    A. Mildew resistancy
    B. Draping well
    C. Not shrinking
    D. Non-absorbency

18. Spandex:

    A. Has low recovery power
    B. Is damaged by heat
    C. Has low absorbency
    D. Shrinks from exposure to water

19. When fibers are blended they assume characteristics that are:

    A. Completely different from the characteristics of the original fibers
    B. Only those of the major fiber
    C. Only those of the minor fiber
    D. Dependent on fiber proportions

20. Half cotton and half polyester blends would give a fabric that is:

    A. More absorbent than cotton
    B. Less absorbent than cotton
    C. More wrinkle resistant than cotton
    D. Less wrinkle resistant than cotton

21. In blended fibers, the characteristics of the weaker fiber should be considered in:

    A. Care
    B. Construction
    C. Use
    D. Cost

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22. The main purpose of blending fibers is to:

   A. Decrease costs
   B. Improve qualities of fabrics
   C. Decrease the qualities of fabrics
   D. Improve washability

23. A difference in fabric characteristics occurs when combining a man-made
    fiber with natural fibers, if a minimum percent of man-made fiber added is:

   A. 5%
   B. 10%
   C. 15%
   D. 20%
   E. 30%

24. The best way for a customer to identify various yarns is by the:

   A. Burning test
   B. Acetone test
   C. Chlorine test
   D. Label

25. The generic term for the twisting or grouping of fibers is:

   A. Yardage
   B. Yarn
   C. Thread
   D. Fabric

26. Properties or characteristics that influence a yarn are:

   A. Content
   B. Structure
   C. Finish
   D. Length

27. Using identical yarns, a triple ply yarn compared to a double ply will be:

   A. Weaker
   B. The same
   C. Stronger
   D. More resilient

28. Staple fibers are:

   A. Long
   B. Short
   C. Both long and short
   D. Only natural fibers

29. The main difference between a filament fiber and a staple fiber is:

   A. Length
   B. Weight
   C. Color
   D. Strength

NOTE: Items <u>30</u> through <u>33</u> relate to weave diagrams 86
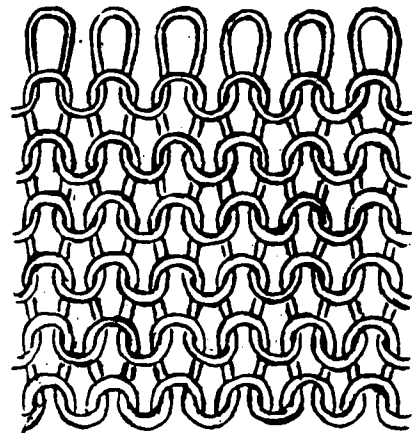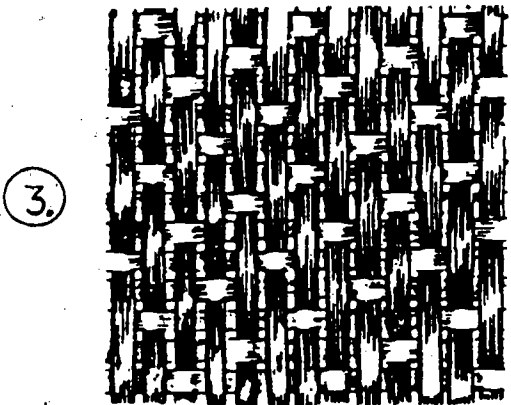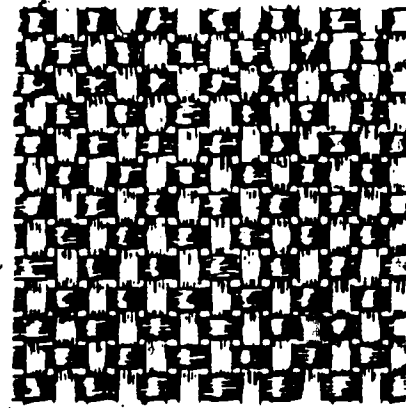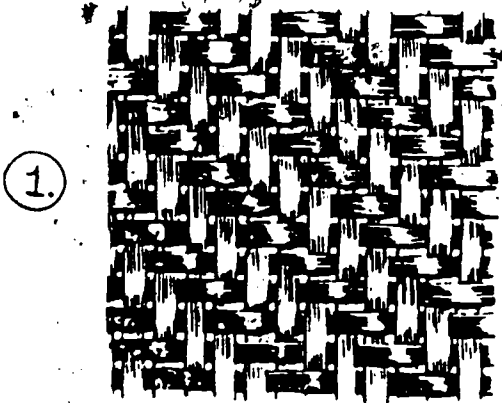
DIAGRAM I

30. From the fabric drawings, number <u>one</u> is:

    A. Twill weave
    B. Plain weave
    C. Knit
    D. Satin weave

31. From the fabric drawings, number <u>two</u> is a:

    A. Twill weave
    B. Plain weave
    C. Knit
    D. Satin weave

32. From the fabric drawings, number <u>three</u> is a:

    A. Twill weave
    B. Plain weave
    C. Knit
    D. Satin

33. From the fabric drawings, number <u>four</u> is a:

    A. Twill weave
    B. Plain weave
    C. Knit
    D. Satin weave

34. When comparing knit, plain and twill weaves, the weave having the greatest stretch is:

    A. Knit
    B. Plain
    C. Twill

35. When comparing knit, plain and twill weaves, the weave having the least stretch is:

    A. Knit
    B. Plain
    C. Twill

36. When comparing knit, plain and twill weaves, the strongest weave is:

    A. Knit
    B. Plain
    C. Twill

37. If the design on a fabric is lighter in color on one side than the other, the design is:

    A. Printed
    B. Woven
    C. Embossed

38. Stock dying is done to the:

    A. Fiber
    B. Yarn
    C. Woven cloth
    D. Bolt

39. The design process that uses wax is:

    A. Batik
    B. Tie Dying
    C. Screen printing
    D. Block

40. If after laundering two new cotton blouses, blouse A is limper than blouse B, the difference is due to:

    A. Sizing
    B. Napping
    C. Embossing
    D. Brushing

41. Shape-retentive finishes reduce the tensile strength of cotton approximately:

    A. 0 - 9%
    B. 10 - 29%
    C. 30 - 49%
    D. 50 - 69%
    E. 70 or more %

42. A flame retardant finish is:

    A. Permanent for life of garment
    B. Less effective with increased laundering
    C. Less effective with increased dry cleaning
    D. Permanent in soft water

43. The greatest draping qualities would be in:

    A. Wool tweed
    B. Cotton corduroy
    C. Nylon tricot

44. The term "hand" refers to:

    A. Draping qualities
    B. Feel of fabric
    C. Design of fabric
    D. Weave of fabric

45. Textile labels must include:

    A. Generic fiber names
    B. Trademark fiber names
    C. Type of dye used
    D. Fabric weave

46. Care instructions must be attached to ready-to-wear garments:

    A. Permanently on outside
    B. Permanently on inside
    C. Permanently
    D. Removable label (pin, string)

1)

2)

3)
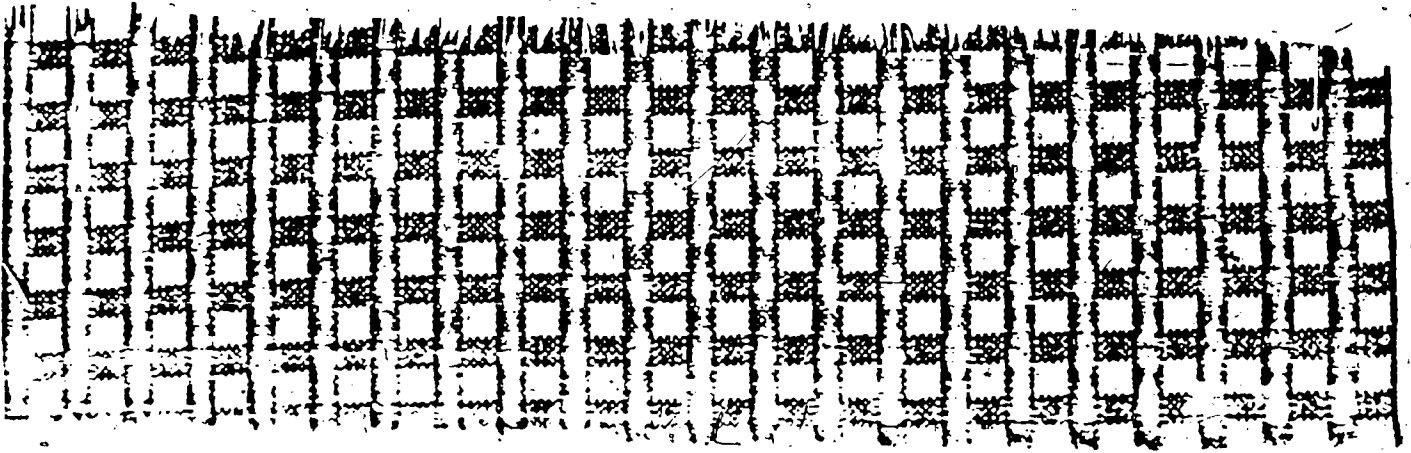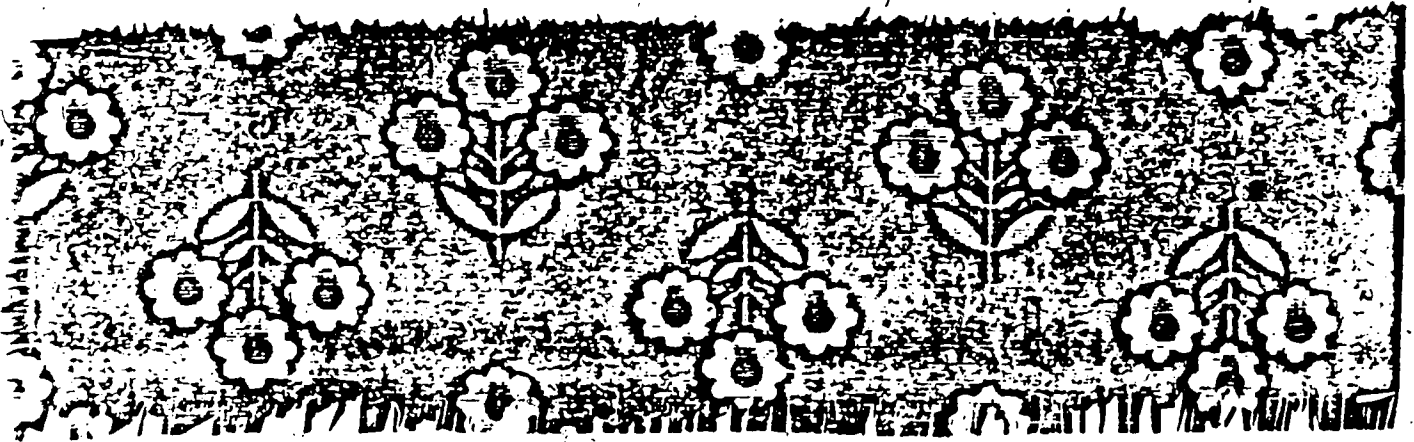
DIAGRAM II

7. The most accurately printed design on the crosswise grainline in Diagram II is:

A. Number 1
B. Number 2
C. Number 3

CLOTHING CONSTRUCTION PERFORMANCE ASSESSMENT

Date _____

4. SEWING EQUIPMENT - LEVEL I

ENCLOSURES:

Answer Sheet

Experience Form

Written items __1__ through __18__
  including folders (1)

(items __19__ through __23__)

Task (performance) __O__ through __O__

  including folders __O__ through __O__

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4. SEWING EQUIPMENT - LEVEL I

DIRECTIONS:

   A. Read each question and all possible answers.
   B. When you have decided which answer(s) is correct, blacken the corresponding space on the answer sheet with a <u>pencil</u>.
   C. Some questions have one answer; others have more than one answer.
   D. When you have completed the test, return the test and answer sheet to your teacher.

1. The most accurately measuring piece of equipment for straight of grain is:

   A. Cloth tape
   B. Paper tape
   C. Yard stick
   D. Plastic tape

2. To avoid picking or piercing yarns, pins and needles should be:

   A. Ball point
   B. Straight point
   C. Wedge point
   D. Bank point

3. In selecting scissors and shears, one should:

   A. Buy what is on sale
   B. Buy the most expensive
   C. Buy the best quality
   D. Purchase least expensive

4. The best piece of equipment for taking body measurements is:

   A. Plastic tape measure
   B. Cloth tape measure
   C. Yarn
   D. Dressmakers guide (seam gauge)

5. From the diagram select the most important places to take body measurements:

   A. 1" above bust (chest)
   B. Bust (chest)

   C. Waist

   D. 7" - 9" below waist

   E. 10" - 12" below waist
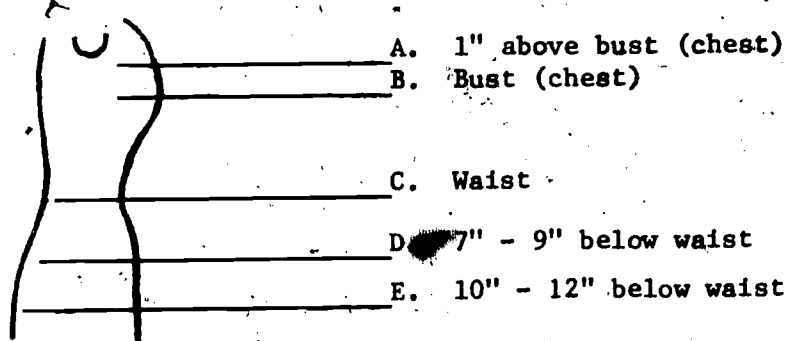
DIAGRAM I

6. The best type of cutting equipment to select for long slashes is:

    A. Shears
    B. Embroidery scissors
    C. Rip-stitch scissors
    D. Scissors

7. The marking tool that will transfer the finest continuous line on a plain, woven, smooth fabric is:

    A. Clay chalk
    B. Wax chalk
    C. Tracing wheel
    D. Black board chalk

8. The best size machine needle to use with size 50 thread is:

    A. 9 - 10 (60 - 70)
    B. 12 - 14 (80 - 90)
    C. 16 - 18 (100 - 110)

9. The best size of ball point pins for most fabrics is:

    A. 0 - 10
    B. Medium to fine
    C. Large
    D. Makes no difference

10. The type of iron that would be best for use during sewing is:

    A. Dry iron
    B. Combination dry and steam
    C. Combination dry, and steam and spray

11. The type of water to be used in a steam iron is:

    A. Distilled
    B. Softened water
    C. Hard

12. The best fabric for a press cloth is:

    A. Weighted silk
    B. Sized cotton
    C. Non-sized cotton muslin
    D. Perma-press
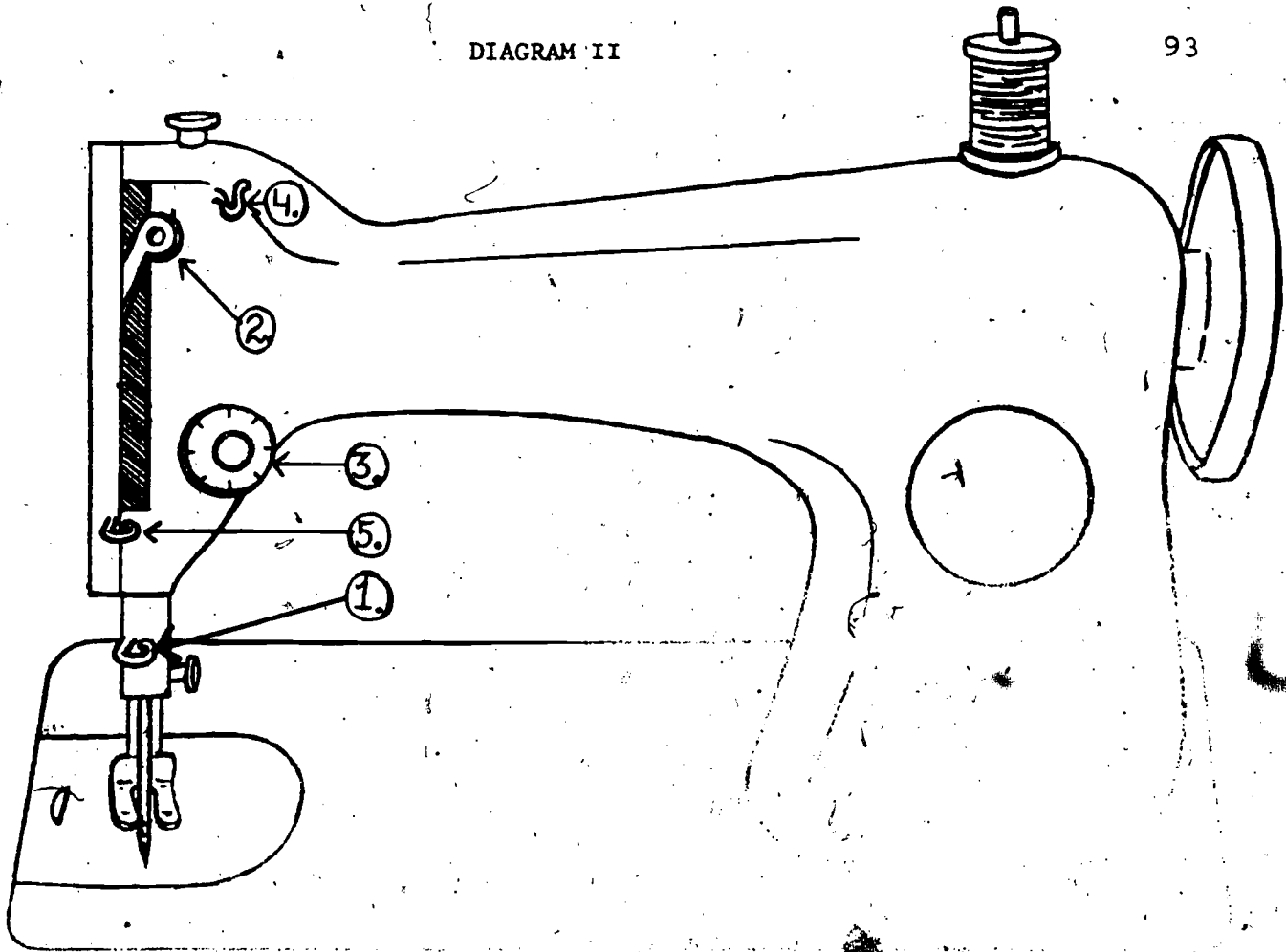
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DIAGRAM II   93

Items 13 through 1? ....

13.   In threading a sewing machine ?............................
      upper spool pin, the ....

      A.   Number 1
      B.   Number 2
      C.   Number 3
      D.   Number 4
      E.   Number 5

14.   The third step in threading the machine is:

      A.   Number 1
      B.   Number 2
      C.   Number 3
      D.   Number 4
      E.   Number 5

15.   The fourth step is:

      A.   Number 1
      B.   Number 2
      C.   Number 3
      D.   Number 4
      E.   Number 5

16. When machine stitching and loops are forming on the top of the stitching line, the tension is checked and it seems to be balanced, one should next:

A. Ignore the problems
B. Check the threading
C. Call the repairman
D. Change thread

17. From diagram III select the machine stitches that the upper tension is too tight and the lower tension is too loose.

A.

B.

C.
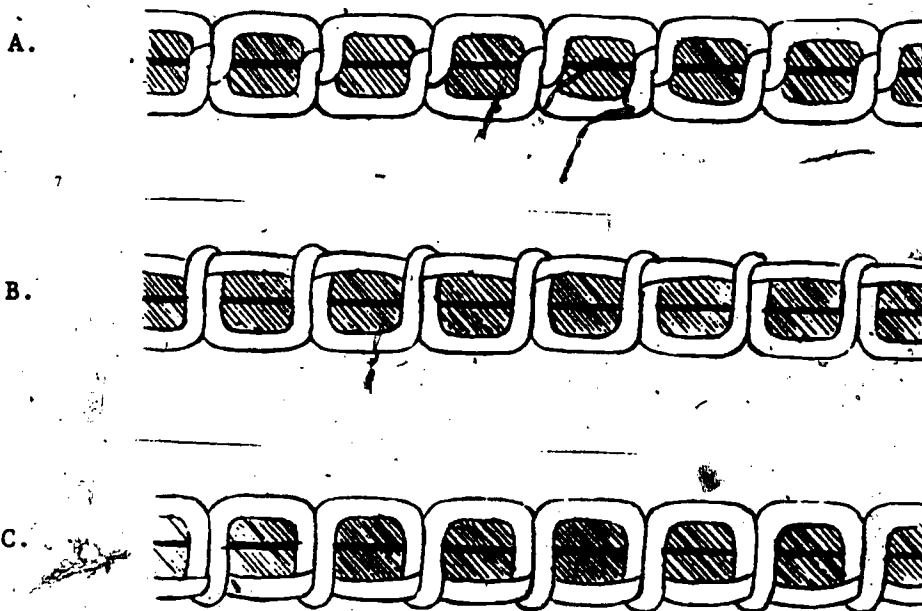
DIAGRAM III

18. The part of the sewing machine which needs to be cleaned most frequently is:

A. Around the balance wheel
B. Tension area
C. Feed dog and bobbin area
D. Thread guides

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Items <u>19</u> through <u>23</u> refer to the sewing machine Diagram IV.
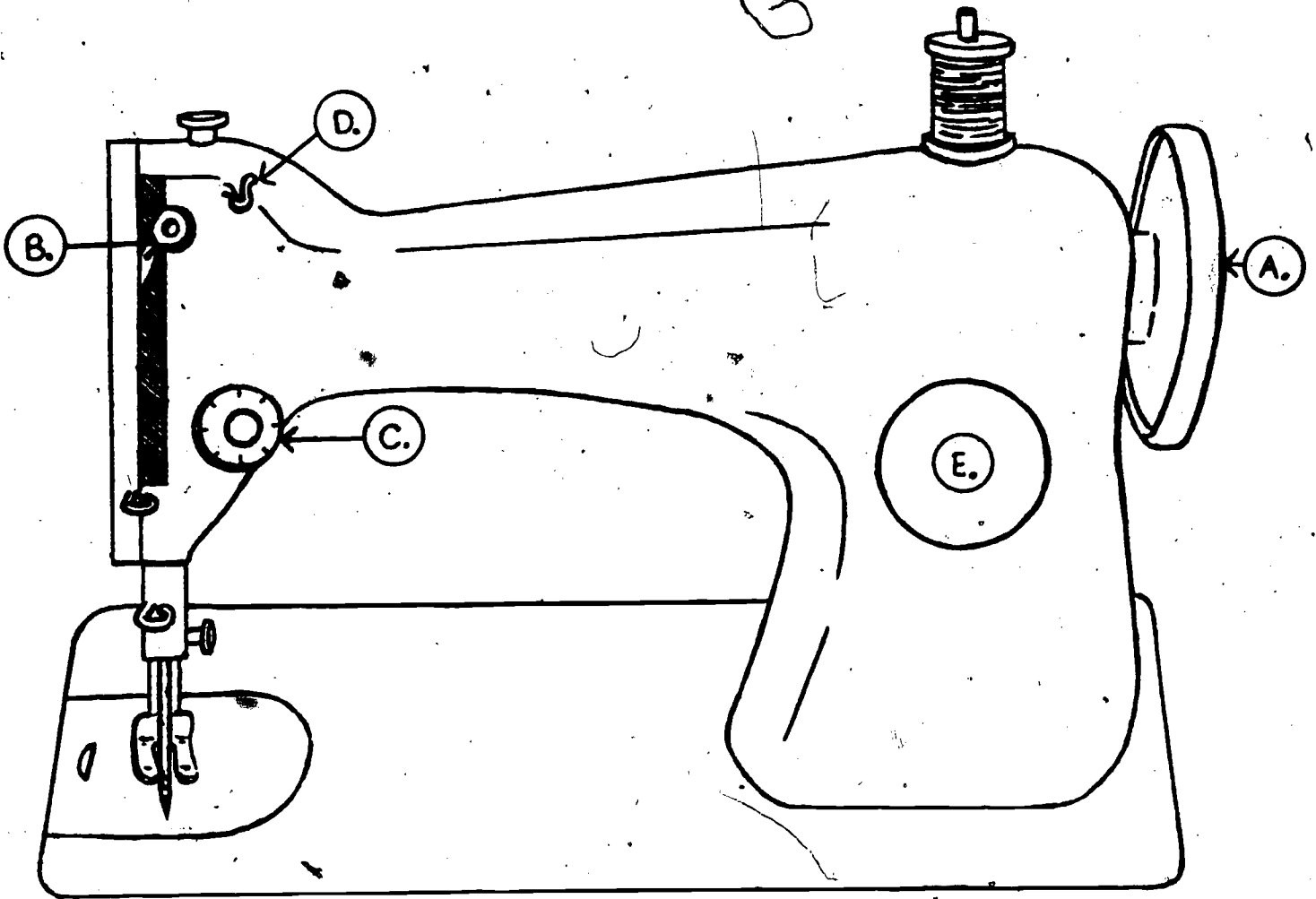
DIAGRAM IV

NOTE: Items 19 through 23 refer to the sewing machine Diagram IV.

19. The balance wheel on the sewing machine is:

A.
B.
C.
D.
E.

20. The take up lever on the sewing machine is:

A.
B.
C.
D.
E.

21. The tension on the sewing machine is:

A.
B.
C.
D.
E.

22. The thread guide on the sewing machine is:

A.
B.
C.
D.
E.

23. The stitch regulator is:

A.
B.
C.
D.
E.

DATE _____

4. SEWING EQUIPMENT - LEVEL II

ENCLOSURES:

Answer Sheet

Experience Form

Written items _1_ through _14_
including folders

(items _0_ through _0_)

Task (performance) _I_ through _IV_
including folders _1_, for items
_15_ through _18_.

DIRECTIONS:
   A. Read each question and all possible answers.
   B. When you have decided which answer(s) is correct, blacken the corresponding space on the answer sheet with a pencil.
   C. Some questions have one answer; others have more than one answer.
   D. When you have completed the test, return the test and answer sheet to your teacher.

1. The best equipment for establishing right angle corners is:

   A. Yard stick
   B. Ruler
   C. T-square
   D. Tape measure

2. For a very open weave, such as lace, the best item or items for attaching the pattern is:

   A. Hand needles
   B. Fine straight pins
   C. Magic tape
   D. Double face tape

3. The equipment to use for cutting out knits is:

   A. Blunt nosed scissors
   B. Embroidery scissors
   C. Knife-edge scissors
   D. Pinking shears

4. The equipment to use for clipping thread:

   A. Blunt nosed scissors
   B. Embroidery scissors
   C. Knife-edge scissors
   D. Pinking shears

5. The equipment to use for trimming and grading:

   A. Blunt nosed scissors
   B. Embroidery scissors
   C. Knife-edge scissors
   D. Pinking shears

6. The thread that has the most stretch is:

   A. Cotton mercerized
   B. Cotton
   C. Cotton covered polyester
   D. Polyester

7. For hand stitching, the thread that is most likely to tangle and knot is:

   A. Cotton mercerized
   B. Cotton
   C. Cotton covered polyester
   D. Polyester

8. The type and size machine needle that should be used for a man-made, light weight, knit fabric is:

   A. Ball point -- 9 to 11
   B. Straight point -- 9 to 11
   C. Ball point -- 12 to 14
   D. Straight point -- 16 to 18

9. The thread that is transparent, strong and resistant to wear is:

   A. Cotton
   B. Nylon
   C. Polyester and silk
   D. Cotton and polyester

10. Thread that is sized alphabetically is:

   A. Silk
   B. Polyester
   C. Nylon
   D. Cotton
   E. None

11. Pressing equipment that should be used for an eased or shaped seam is:

   A. Point presser
   B. Tailor's ham
   C. Sleeve board
   D. Needle point board

12. The best type of press cloth to use for pressing a sheer, light weight fabric is:

   A. Wool
   B. Heavy muslin
   C. Cheese cloth
   D. Heavy dacron

13. The problem that causes the machine to skip stitches is:

   A. Needle in improperly
   B. Balance wheel loose
   C. Upper tension too tight
   D. Upper tension too loose
   E. Feed dropped

14. The problem which causes light weight man-made single knit to jam
    in the machine is:

   A. Hole too large in face plate
   B. Pressure too heavy
   C. Hole too small in the face plate
   D. Opening in pressure foot too loose
   E. Needle too large

SEWING EQUIPMENT TASKS

NOTE: For items 15 through 18, the sewing machine is to be used. No
      hand stitching is necessary. If no sewing machine is available
      with the required attachments, omit Task 1 - III and complete
      task IV.

15. Task I
    Three-step zig-zag (serpentine or variation of zig-zag) along the
    edge of the polyester twill fabric (provided).

16. Task II
    Darn a hole in denim (4" x 4" provided).

17. Task III
    Machine blind stitch a hem in the polyester double knit piece
    (4" x 6').

18. Task IV
    Waist band - Assuming fabric 18 a. and 18. b represents a skirt band
    interfaced with pellon. Top stitch ½" from the folded edge the full
    length of the band.

CLOTHING CONSTRUCTION PERFORMANCE ASSESSMENT

DATE _____

5. CLOTHING CONSTRUCTION - LEVEL I

ENCLOSURES:

Answer Sheet

Experience Form

Written items __1__ through __28__
  (including folders (2)
  (items __29__ through __33__)
Task (performance) __V__ through __VI__
  including folders __2__ for items
  __34__ through __35__

5. CLOTHING CONSTRUCTION - LEVEL I

DIRECTIONS:

A. Read each question and all possible answers.
B. When you have decided which answer(s) is correct, blacken the corresponding space on the answer sheet with a pencil.
C. Some questions have one answer; others have more than one answer.
D. When you have completed the test, return the test and answer sheet to your teacher.

---

1. When fitting pattern pieces, pin:

A. Or measure from seam line to seam line
B. Or measure from cutting line to cutting line
C. All darts and tucks and measure or pin from cutting line
D. All darts and tucks and measure from seam line to seam line

2. Pattern envelopes marked for "knits only" allow:

A. More ease than patterns for plain woven fabrics
B. The same amount of ease as other patterns
C. Less ease than patterns for plain woven fabrics
D. Twice as much ease as patterns for plain woven fabric

3. When checking pants' patterns for fit, the two most important measurements are:

A. The side seam and hips
B. The waist and inseam
C. The crotch and hips
D. The waist and hips

4. Allowance for body movement in patterns is identified as:

A. Movement
B. Drape
C. Ease
D. Tolerance

5. The yardage of plain woven fabric to be purchased to construct View B, size 10, Misses, 44/45 inches wide fabric is:

A. 3 7/8
B. 2 1/4
C. 2 1/8
D. 3 1/2
E. 2 1/2

MISSES DRESS PATTERNS					
View A	10	12	14	16	18
35" wo nap	3 7/8	4	4	4 3/8	4 3/8
44/45" wo nap	2 5/8	2 3/4	2 3/4	3 1/4	3 3/4
60" wo nap	2 1/4	2 3/8	2 3/8	2 1/2	2 1/2
View B	10	12	14	16	18
35" wo nap	3 1/2	3 5/8	3 5/8	4	4
44/45" wo nap	2 1/2	2 1/2	2 5/8	3 1/8	3 1/8
60" wo nap	2 1/8	2 1/8	2 1/8	2 1/4	2 3/8
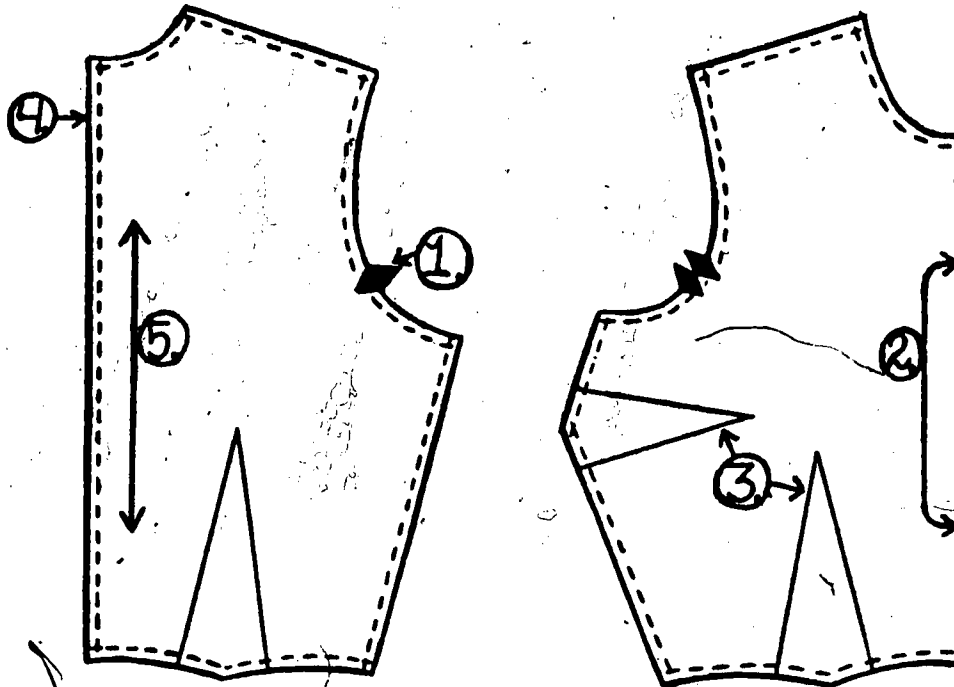
PATTERN   DIAGRAM I

NOTE: Items 6 through 10 refer to DIAGRAM I.

6. On the pattern diagram identify the notch:

    A. Number 1
    B. Number 2
    C. Number 3
    D. Number 4
    E. Number 5

7. On the pattern diagram identify the dart:

    A. Number 1
    B. Number 2
    C. Number 3
    D. Number 4
    E. Number 5

8. On the pattern diagram identify place on fold:

    A. Number 1
    B. Number 2
    C. Number 3
    D. Number 4
    E. Number 5

9. On the pattern diagram identify the cutting line:

    A. Number 1
    B. Number 2
    C. Number 3
    D. Number 4
    E. Number 5

127

10. On the pattern diagram identify the straight of grain:

    A. Number 1
    B. Number 2
    C. Number 3
    D. Number 4
    E. Number 5

NOTE: Items 11 through 14 refer to Fabric Diagram II
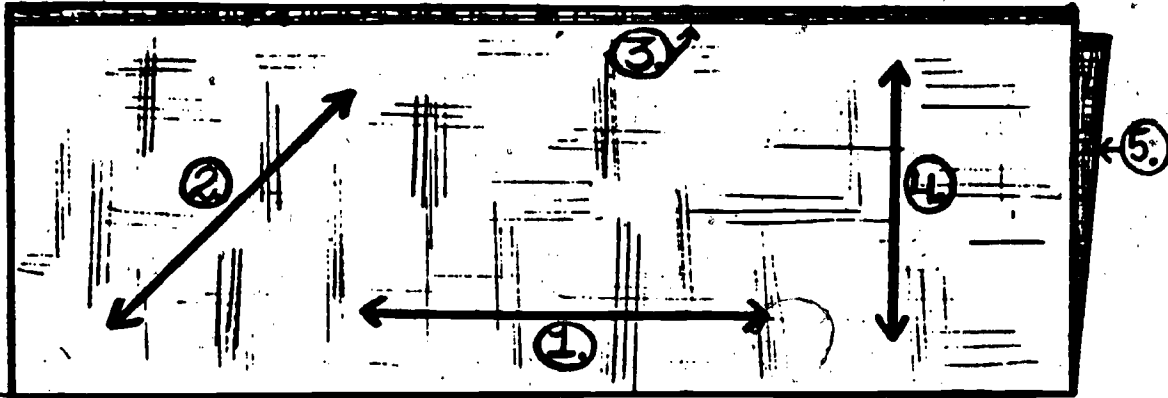
FABRIC DIAGRAM II

11. Using Diagram II, identify bias.

    A. Number 1
    B. Number 2
    C. Number 3
    D. Number 4
    E. Number 5

12. Using Diagram II, identify crosswise grain:

    A. Number 1
    B. Number 2
    C. Number 3
    D. Number 4
    E. Number 5

13. Using Diagram II, identify lengthwise grain:

    A. Number 1
    B. Number 2
    C. Number 3
    D. Number 4
    E. Number 5

14. Using Diagram II, identify selvage:

    A. Number 1
    B. Number 2
    C. Number 3
    D. Number 4
    E. Number 5

15. To lengthen a shirt less than 2 inches:

    A. Add to the lower edge of the pattern the required amount
    B. Slash above bust or chest line and insert needed length
    C. Slash pattern on any horizontal line and insert needed length

16. An alteration is not necessary if the bustline dart direction is:

    A. Below the point of the bust
    B. Above the point of the bust
    C. To the side of the point of the bust
    D. Toward the point of the bust

17. If less than 2" is needed in total width of a pattern, the additional amount without changing the design lines of the garment is added at:

    A. Side seams
    B. Center front
    C. Center back
    D. Lower edge of pattern
    E. Stretch the fabric

18. Fabric is prepared for construction by:

    A. Preshrinking by washing
    B. Preshrinking by dry cleaning
    C. Preshrinking by method on care tag
    D. Not preshrinking

19. In preparation for cutting the fabric, pattern pieces should be pinned at:

    A. Pattern grain line markings on the straight woven fabric
    B. Corners of pattern to fabric
    C. Sides of the pattern
    D. The notches of the pattern

20. The process used in transferring pattern markings to the fabric is determined primarily by:

    A. Fabric
    B. Alterations
    C. Pattern markings
    D. Guide sheet

21. After cutting and before removing pattern, the markings that should be transferred are:

    A. Straight of fabric
    B. Darts, tucks
    C. Hem lines
    D. Notches

DIAGRAM III

1. 2. 3. 4.
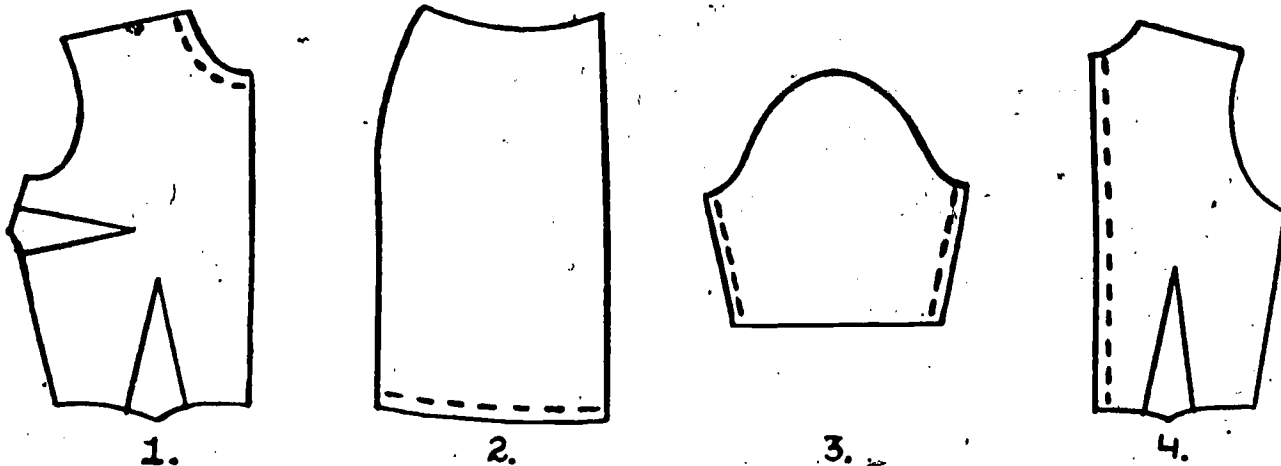
22. Staystitching on the broken lines would be used in **Diagram III**:

    A. Number 1
    B. Number 2
    C. Number 3
    D. Number 4

23. Staystitching is used to:

    A. Mark stitching line
    B. Prevent curved or bias areas from stretching
    C. Decorate garment
    D. Baste pieces together

24. Darts are a basic part of a pattern because their primary purpose is to:

    A. Give shape to the fabric
    B. Serve as an indicative point of alteration
    C. Be decorative
    D. Change design

25. When joining a shoulder seam and the back is wider than the front, the extra fabric is:

    A. Cut away at armscye
    B. Shorten by a tuck
    C. Eased in
    D. Cut away at shoulder

26. The placement of understitching is illustrated by a broken line in Diagram IV:

    A. Number 1
    B. Number 2
    C. Number 3
    D. Number 4

DIAGRAM IV

FACING	FACING	FACING	FACING
SEAMLINE	SEAMLINE	SEAMLINE	SEAMLINE
GARMENT	GARMENT	GARMENT	GARMENT
1.	2.	3.	4.
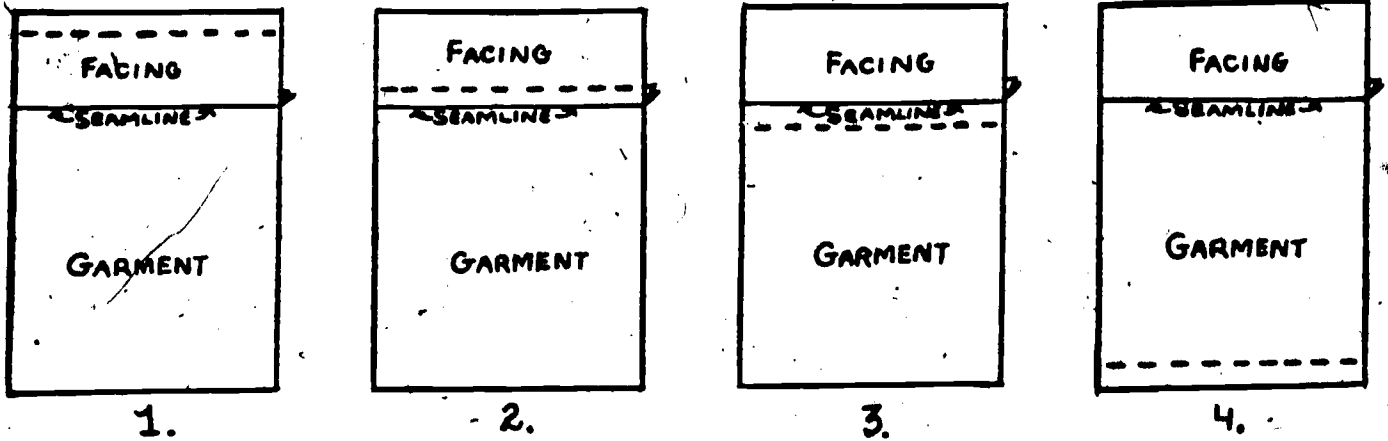
27. The purpose of grading a seam is to:

    A. Make it stronger
    B. Reduce bulk
    C. Make it weaker
    D. Add bulk

28. The appropriate stitch placement for attaching a hook is:

    A.
    B.
    C.
    D.
    E.

DIAGRAM V
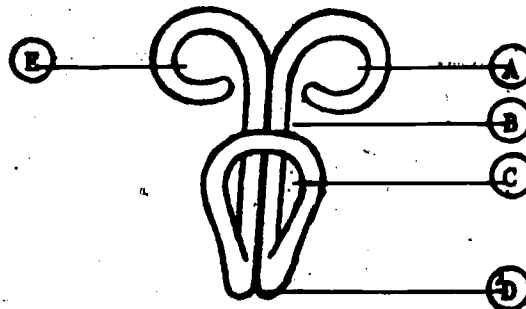
29. The appropriate seam edge finish for the fabric (see Sample I) and the garment (see Diagram IV)

A. Pink
B. Clean finish
C. Zig-Zag
D. Raw edge
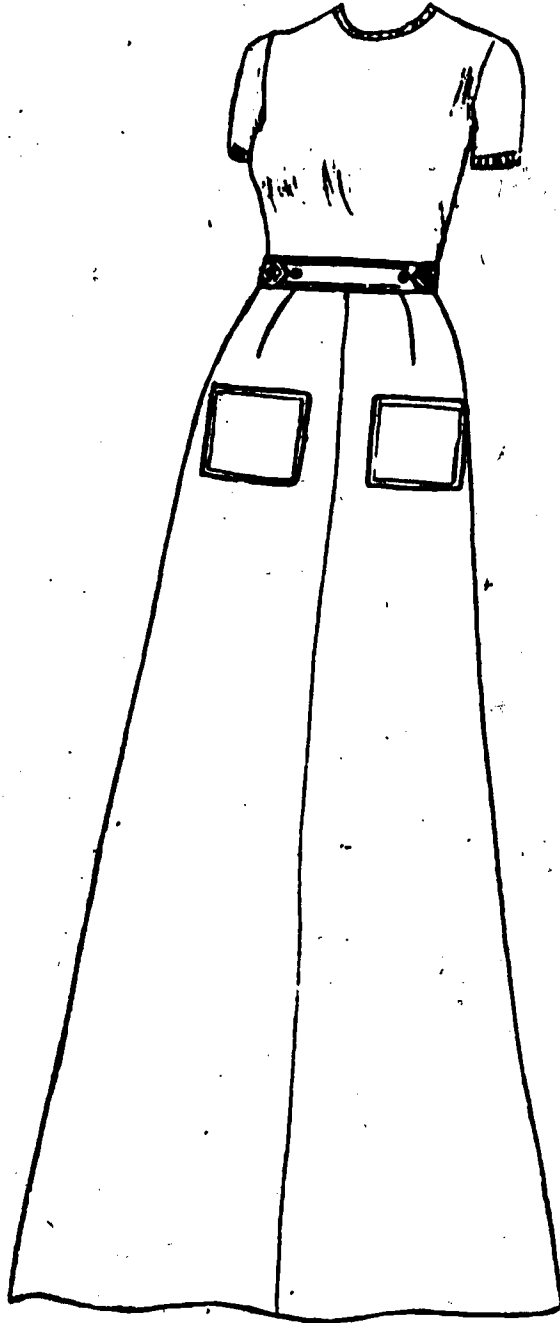
SAMPLE I
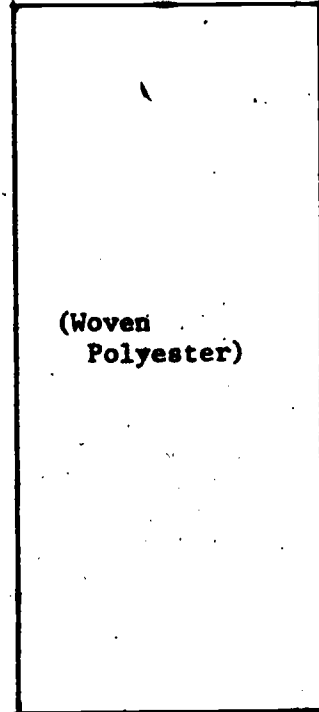
(Woven
Polyester)

DIAGRAM IV

(Items '30 - 33 refer to Sample II.)

SAMPLE II
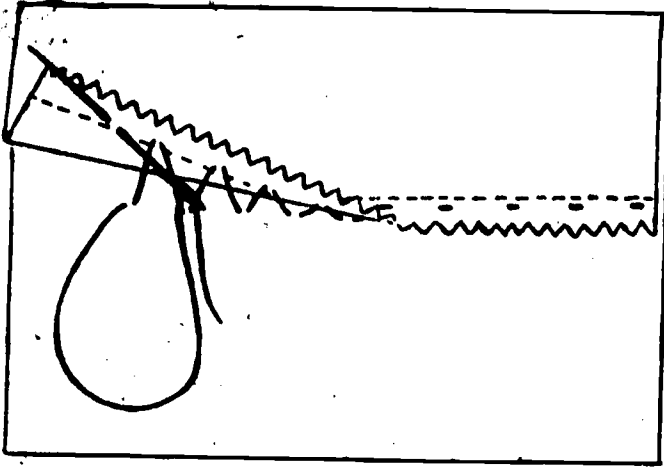
A.
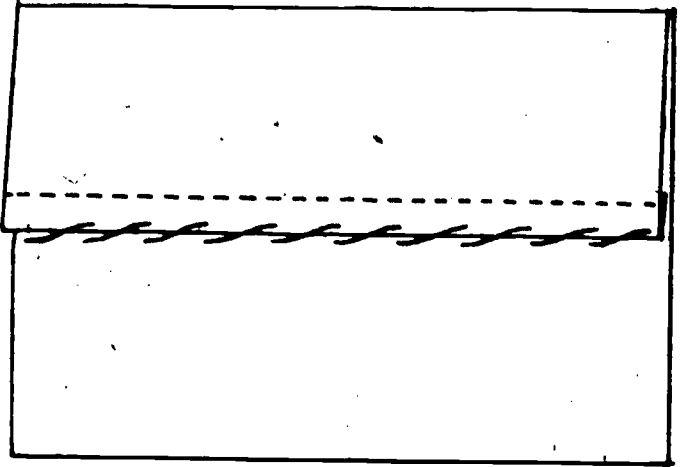
B.
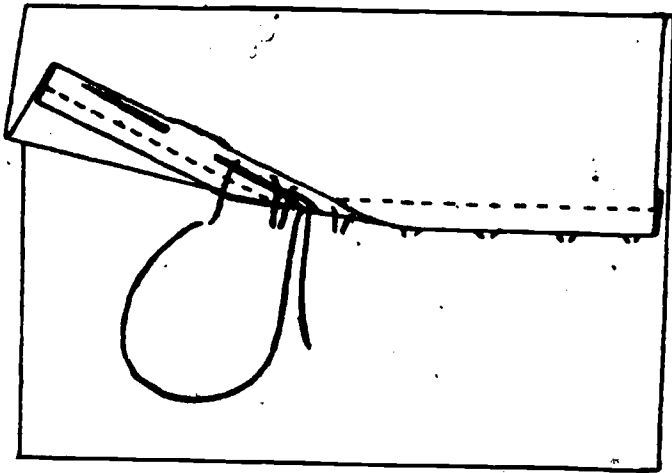
C.
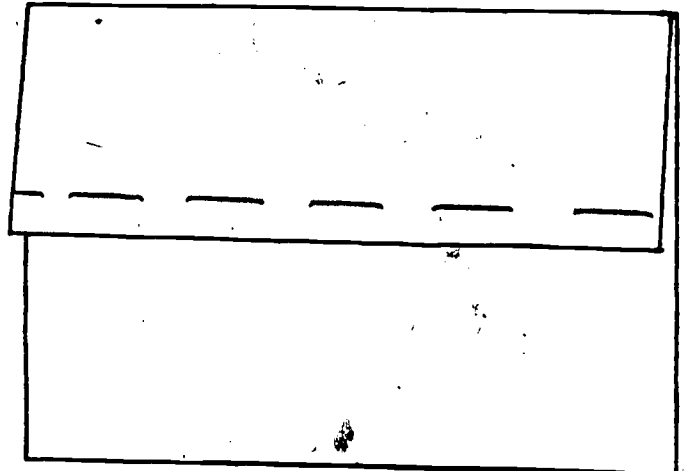
D.

SAMPLE II

30. From Sample II identify the <u>basting</u> <u>stitch</u>:

   A.
   B.
   C.
   D.

31. From Sample II identify the <u>whip</u> or <u>slanted</u> <u>stitch</u>:

   A.
   B.
   C.
   D.

32. From Sample II identify the <u>running</u> <u>stitch</u>:

   A.
   B.
   C.
   D.

33. From Sample II identify the <u>slip</u> <u>stitch</u>:

   A.
   B.
   C.
   D.

CLOTHING CONSTRUCTION - LEVEL I

Performance Tasks V-VI

Task V
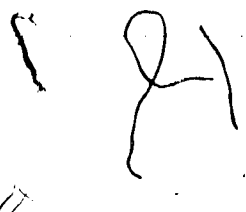
34. Clean finish raw edge, turn up and put in hem, 1" in width, by hand
    using either slip or whip stitch. (6" x 6" fabric piece and thread
    provided).

Task VI

35. Machine stitch a square corner using a 5/8" seam allowance.
    (6" x 4" fabric piece provided).

CLOTHING CONSTRUCTION PERFORMANCE ASSESSMENT

Date _____

5. CLOTHING CONSTRUCTION - LEVEL II

ENCLOSURES:

Answer Sheet

Experience Form

Written items __1__ through __19__
  including folders

  (items __0__ through __0__)

Task (performance) __VII__ through __XIII__
  including folders __4__ , for items
  __20__ through __26__

5.0   CLOTHING CONSTRUCTION - LEVEL II

DIRECTIONS:

A.   Read each question and all possible answers.
B.   When you have decided which answer(s) is correct, blacken the
     corresponding space on the answer sheet with a pencil.
C.   Some questions have one answer; others have more than one answer.
D.   When you have completed the test, return the test and answer sheet
     to your teacher.

1.   When using a plaid fabric, pattern pieces will be easier to match for:

     A.   One seam gathered skirt
     B.   Four gored, straight skirt
     C.   Six gored, flared skirt
     D.   Four gored, flared skirt

2.   The most allowance for fitting ease would be provided, in a (an):

     A.   Unlined jacket
     B.   Blouse
     C.   Strapless bodice
     D.   Sleeveless dress

3.   A sleeve alteration requiring more than a seam line change is:

     A.   Widening a straight cuff
     B.   Adding to girth of upper sleeve
     C.   Lowering elbow dart
     D.   Changing elbow dart direction

4.   For a pattern alteration of more than 2", locate the figure problem, then:

     A.   Slash and true the pattern
     B.   Add needed amount at seams
     C.   Add needed amount at center
     D.   Remove all ease, darts and tucks

5.   To minimize differences in light reflection, the pattern layout for knits
     should be the same as:

     A.   Napped
     B.   Woven
     C.   Either napped or woven
     D.   Even checked woven

6.   The most stability will be given to a shoulder seam by using:

     A.   A second row of machine stitching in the seamline
     B.   A second row of machine stitching between the seamline and raw edge
     C.   Machine stitch tape into seam line

7. The purpose of backing or underlining is to:

A. Add body to a garment
B. Retain the shape in a garment
C. Conceal hand stitching
D. Prevent raveling in seams
E. Maintain fashion line and style detail

8. Places on a garment that usually need an interfacing are:

A. Cuffs
B. Collars
C. Neckline (no collar)

9. Backing or underlining should be:

A. The same weight as the fabric to be used for the garment
B. The same weight or lighter weight than the fabric to be used for the garment
C. Heavier than the fabric to be used for the garment

10. Backing or underlining is constructed so that each piece is:

A. Matching grainline
B. Made separately
C. Attached to fashion fabric and treated as one thickness
D. Bias to the fashion fabric grainline

11. Using Diagram I, the most appropriate layout for a napped fabric is:

   A.
    B.
    C.
    D.   DIAGRAM I
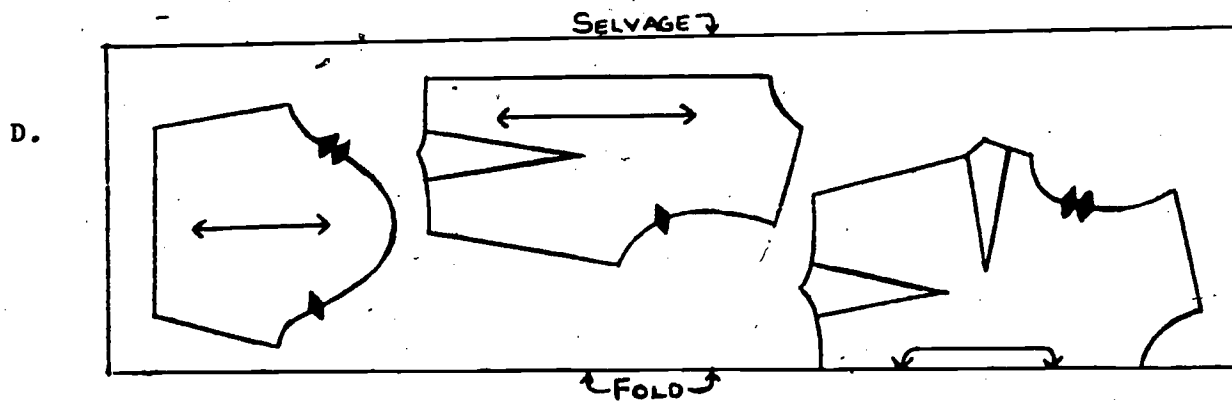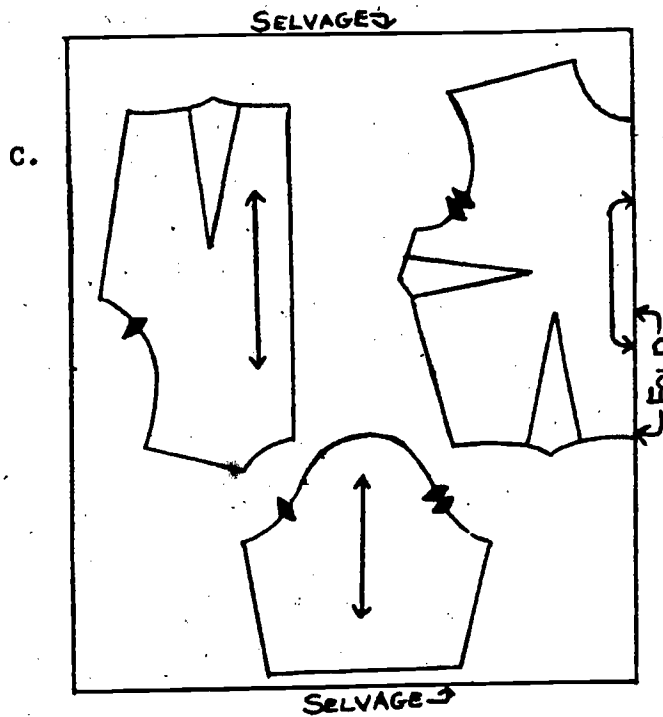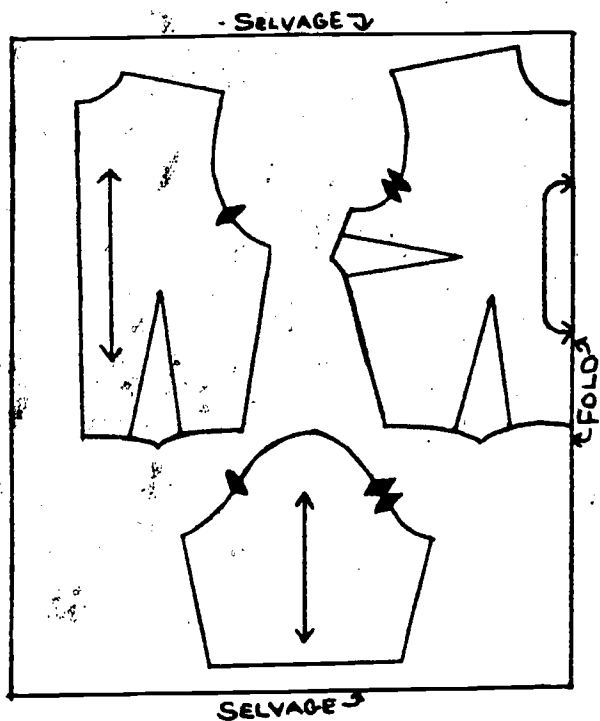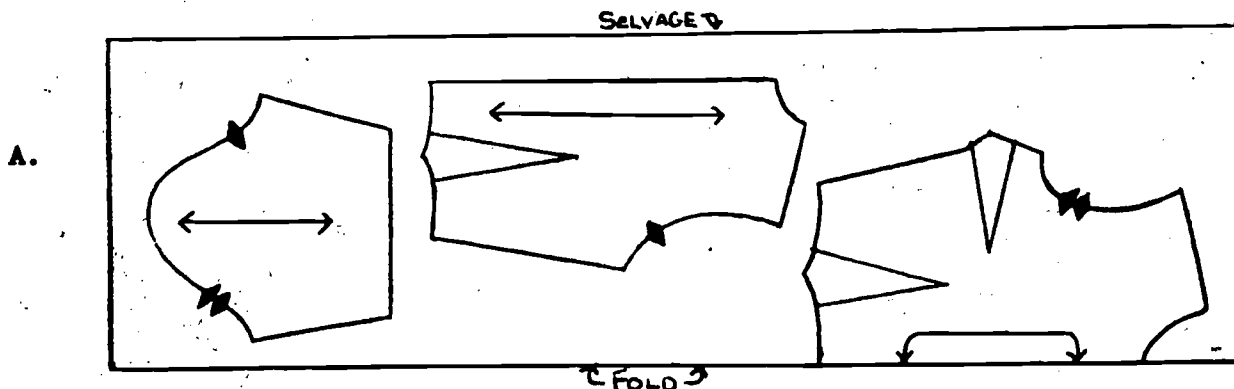
12. The major portion of ease for the set-in sleeve should be:

    A. Over the sleeve cap
    B. Below the sleeve cap
    C. Only on the back of the sleeve cap
    D. Only on the front of the sleeve cap

13. The procedure for putting in a curved hem is to:

    A. Ease with basting stitch
    B. Make small pleats or tucks
    C. Cut away excess fabric
    D. Cut wedges in the allowance

14. When pressing a pile fabric use:

    A. A needleboard
    B. A back and forth motion
    C. Steam and correct temperature
    D. A hot dry iron

15. For a printed woven fabric the appropriate method of transferring pattern markings is:

    A. Tracing wheel and paper
    B. Chalk
    C. Pins
    D. Tape

16. For a lace fabric the appropriate method of transferring pattern markings is:

    A. Tracing wheel and paper
    B. Chalk
    C. Pins
    D. Tailor's tacks
    E. Tape

17. For a knit fabric the appropriate method of transferring pattern markings is:

    A. Tracing wheel and paper
    B. Chalk
    C. Pins
    D. Tailor's tacks
    E. Tape

18. The best pattern layout for a plaid fabric is: (see Diagram II)
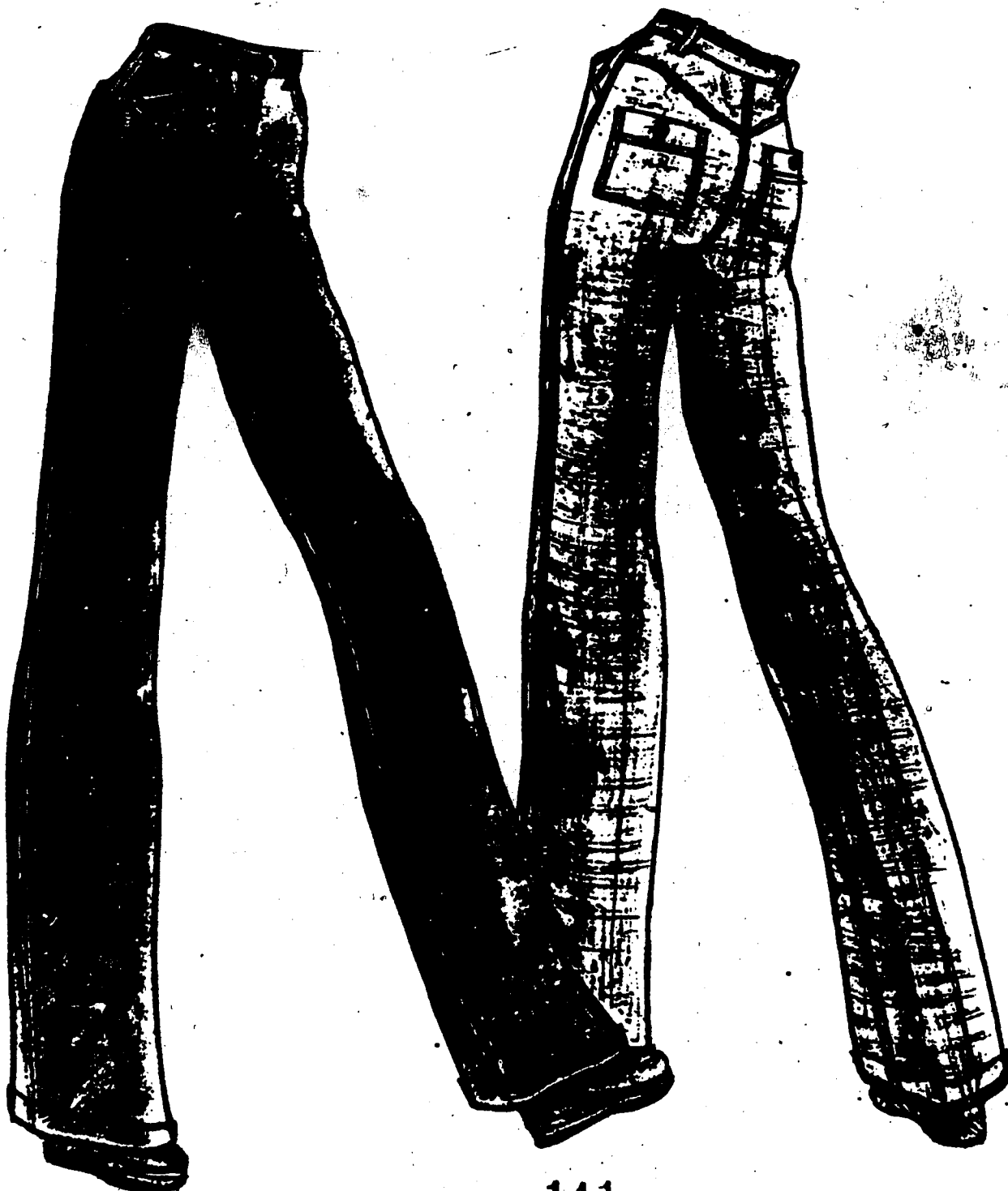
    A.

    B.

    C.

DIAGRAM II
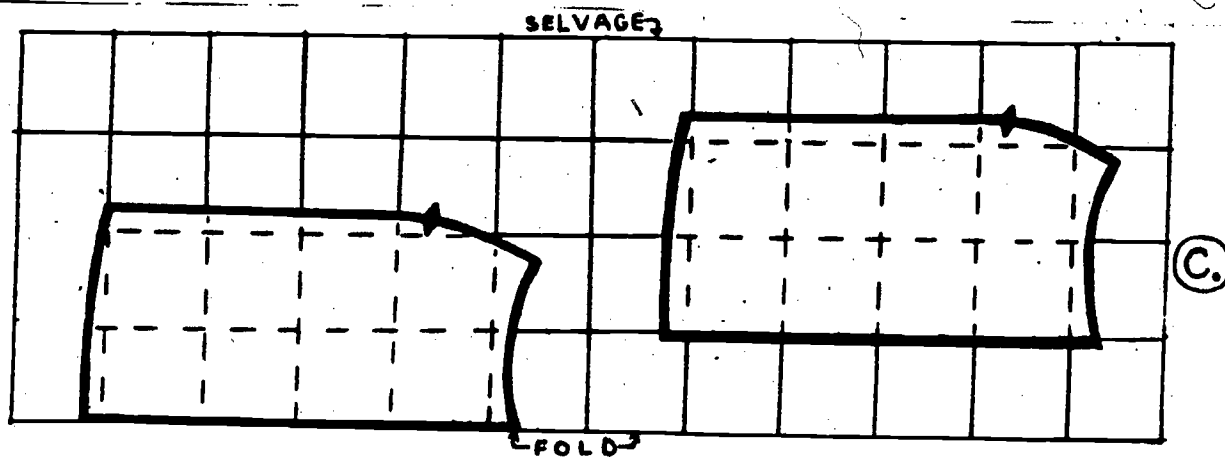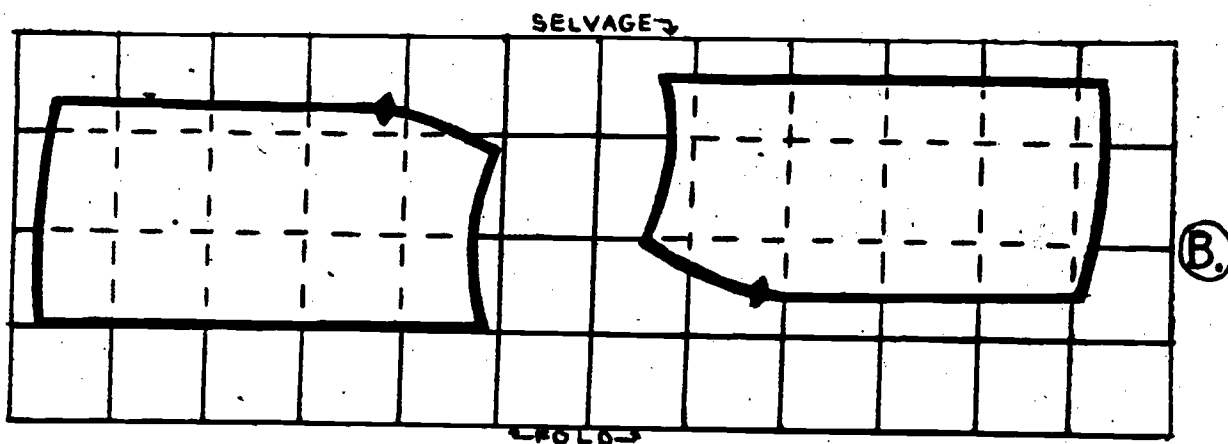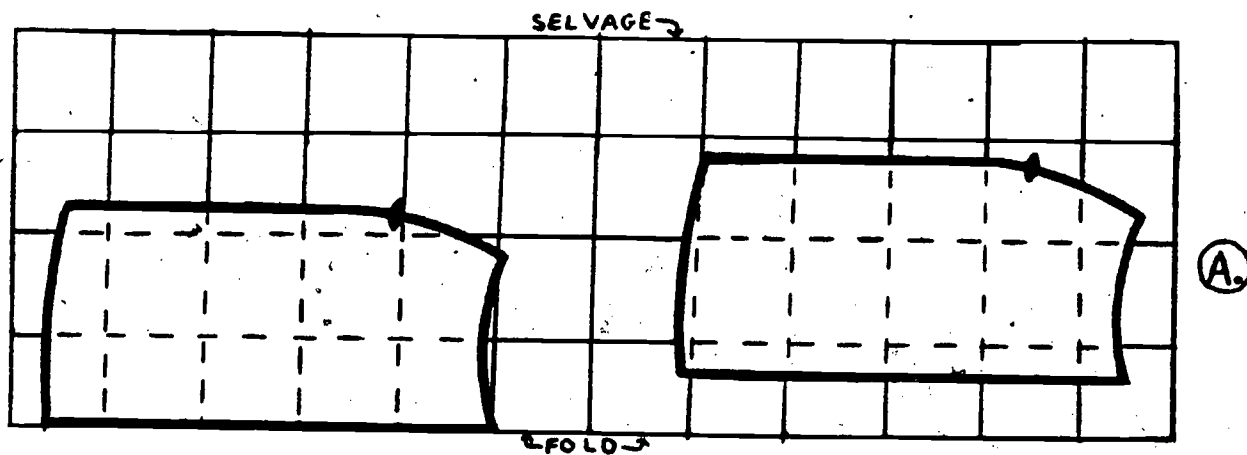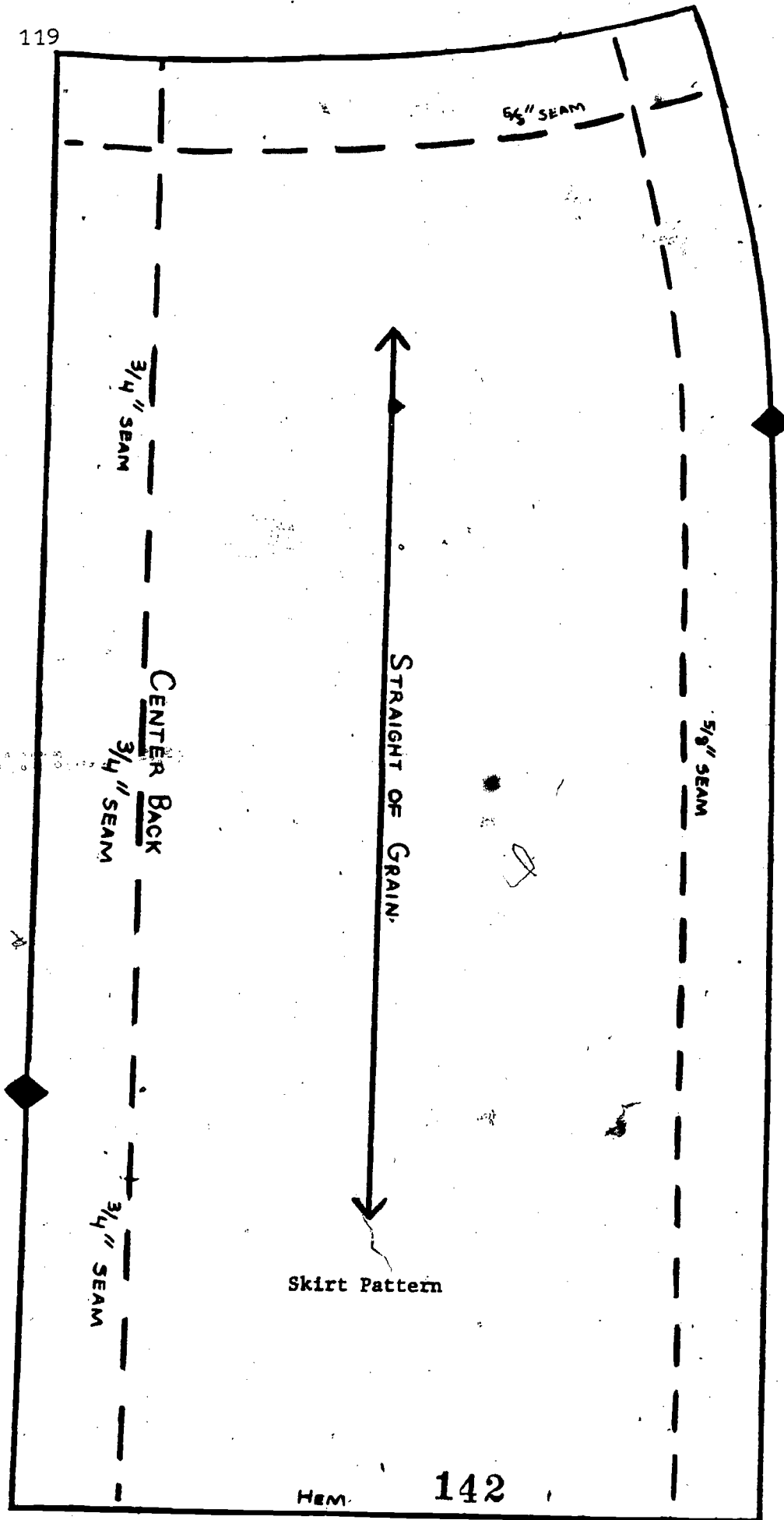
19. The best seam to use for the pants when using denim is: (see Diagram III)

    A. Flat fell
    B. French
    C. Plain
    D. Edge stitched

DIAGRAM III

119

⅝" SEAM

¾" SEAM

STRAIGHT OF GRAIN.

CENTER BACK
¾" SEAM

¾" SEAM

⅝" SEAM

¾" SEAM

Skirt Pattern

HEM 142

CLOTHING CONSTRUCTION -- LEVEL II
PERFORMANCE TASKS
VII-XIII

20. Task VII
    Put in a one inch hem on two sides of the 6" x 6" fabric sample and
    hand sew, one with a catch stitch and the other with a blind stitch.
    (Fabric and thread provided)

    The fabric provided in this folder should be used for all three of
    the following processes. (Fabric 24" x 24")

    Task VIII

21. Cut 2 bias strips 2" wide by 4" long and machine stitch together.
    Stitch together having a continuous 2" strip.

    Tastk IX

22. Cut two back skirt pieces using the provided skirt pattern.
    Insert a lap zipper into the center back seam.

    Task X

23. Make a hand or machine buttonhole.

    Task XI

24. Using the fabric provided make a flat-fell or French seam.
    (8" x 8" fabric)

    Task XII

25. Make a tailor's tack on large dot. (Fabric provided - two
    3" x 3" squares)

    Task XIII

26. Using the fabric provided, sew a larger outer curve onto a
    smaller inner curve and do whatever is necessary to make the
    seam lie flat. (Two shaped 6" x 8" fabric pieces).

Date _____

6. CLOTHING CARE - LEVEL I

ENCLOSURES:

Answer Sheet

Experience Form

Written items _1_ through _6_
  including folders (1)

(items _7_ through _11_)

Task (performance) _0_ through _0_

  including folders _0_ through _0_

DIRECTIONS:

A. Read each question and all possible answers.
B. When you have decided which answer(s) is correct, blacken the corresponding space on the answer sheet with a pencil.
C. Some questions have one answer; others have more than one answer.
D. When you have completed the test, return the test and answer shet to your teacher.

1. "Machine wash only" on a care label means that the garment can be:

   A. Dry cleaned
   B. Machine washed
   C. Hand washed
   D. Bleached

2. "Press or iron with cool iron" refers to:

   A. Lowest setting
   B. Medium setting
   C. Highest setting
   D. Steam

3. Leaving a garment in the dryer beyond the drying cycle will:

   A. Decrease wrinkling
   B. Increase wrinkling
   C. Make no difference

4. Fabric softeners should:

   A. Increase static electricity
   B. Decrease static electricity
   C. Have no effects on the fabric

5. Stains need special treatment:

   A. Before washing
   B. Immediatly after washing
   C. During drying

6. Chlorine bleaching is more effective when used with:

   A. Water and no detergent
   B. Water and detergent
   C. Water and fabric softner

Sarah Jane
Care:

○ Do not use chlorine bleach
○ Do not twist or wring
○ Hand wash , line dry
○ Press with warm iron

Sarah Jane
A "*Supersash*" GARMENT

90% POLYESTER – 10% COTTON
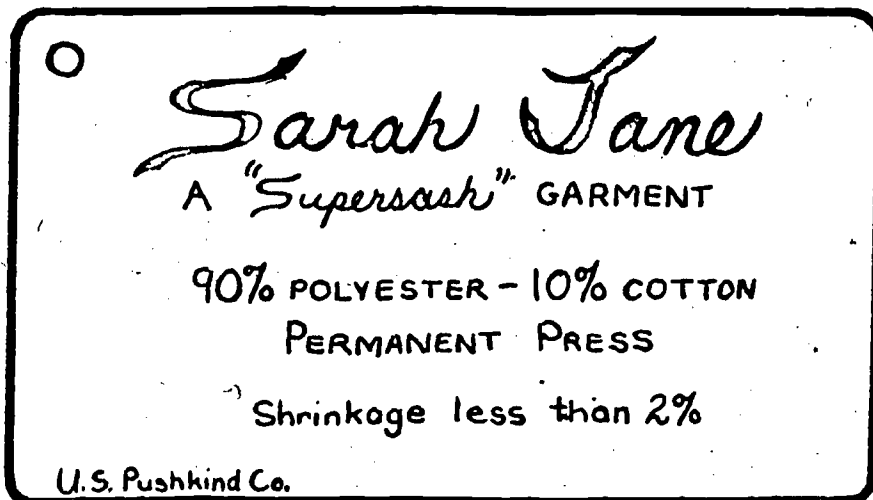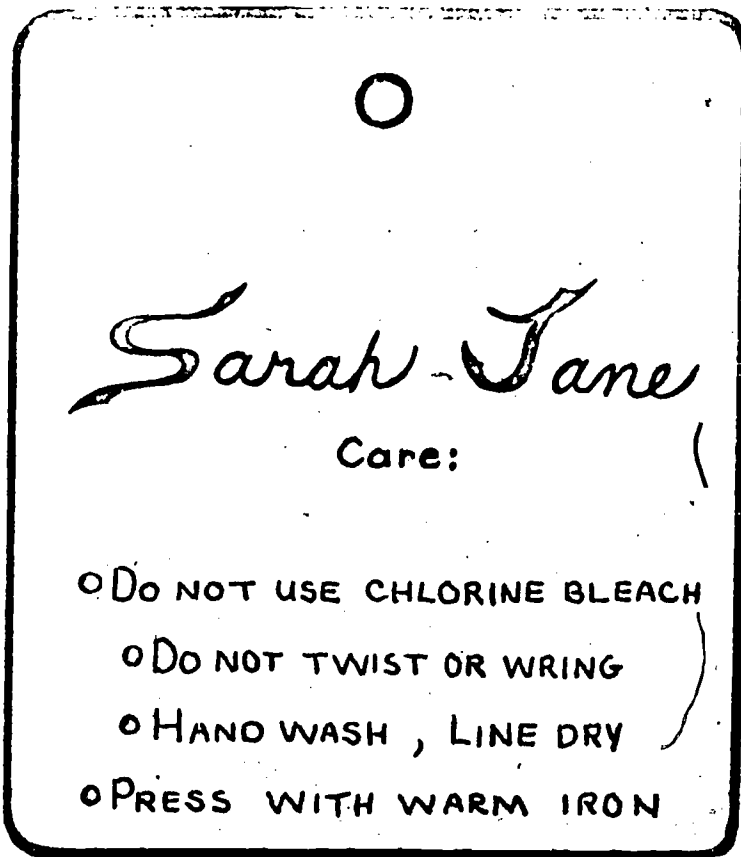PERMANENT PRESS

Shrinkage less than 2%

U.S. Pushkind Co.

DIAGRAM I

NOTE: Items 7 through 11 refer to Diagram I on the left.

7. The water temperature(s) for washing the garment should be:

A. Hot
B. Warm
C. Cold

8. If the garment is machine washed and becomes permanently wrinkled, the:

A. Store should replace the garment
B. Manufacturer should replace the garment
C. Money should be refunded
D. Guarantee is void
E. Care label doesn't cover this

9. If the garment faded as the result of direct sunlight, the:

A. Store should replace the garment
B. Manufacturer should replace the garment
C. Money should be refunded
D. Guarantee is void
E. Care label doesn't cover this

10. If the fabric melted or stuck to a warm iron the:

A. Store should replace the garment
B. Manufacturer should replace the garment
C. Money should be refunded
D. Guarantee is void
E. Care label doesn't cover this

11. A garment is worn in a heavy rain, and shrinks about 3" on sleeves and at hemline. This should not be expected as the garment has:

A. 10% cotton content
B. Permanent press finish
C. A guarantee against shrinkage