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ABSTRACT

Teachers of 30 adult evening high school completion classes in Jackson County, Iowa, completed questionnaires to assess their own inservice training needs in relation to program content and effectiveness. The comparative few who recognized a need for inservice training stressed such concerns as courses in English, and adult education trends and innovations. In general, the most helpful program activities were use of audiovisual aids, blackboard work by teachers, classroom illustrations by teachers, and class discussions. Lectures, home work, and workbooks were of little use. The dropout rate was the leading problem. Teachers' suggestions for improving classes were few. Pretest and posttest results gave significant indication that adults are really learning. Moreover, in view of the lack of testing tailored to adults, the extent of learning may have been underestimated. (1y)

" or : GRAN, James R.

EIGHTH TEACHER EVALUATION AND PRE-POST TEST RESULTS

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Transite

JACKSON COUNTY ADULT EVENING HIGH SCHOOL COMPLETION PROGRAM FOR THE SEMESTER ENDING DECEMBER 17, 1969

OF THE

Thirty classes (four at Bellevue, six at Miles-Preston, and nineteen at Maquoketa) were taught during this semaster.

At the end of the semester, all thirty teachers were given evaluation forms to complete. Thirty were returned for a return of 100%.

Of the thirty classes taught, twenty made use of pre-post tests and this data is perhaps the most interesting of the data collected.

The results of the data collected follow:

QUESTION # 1. Is there a need for in-service training for teachers of adult classes?

RESPONSES BY SUBJECT AREAS:

BOOKKEEPING -	· 1 section	GOVERNMENT (Ame	rican) - 3 sections
Yes	0	Yes	3
No	1	No	0
ENGLISH 10 -	4 sections	HISTORY (America	an) - 3 sections
Yes	1	Yes	2
No	2	No	1
No respon	nse 1		
ENGLISH II -	3 sections	HOME ECONOMICS	- 2 sections
Yes	1	Yes	1
No	1	No	1
No respo	nse 1		
MATH - 3 sec	tions	METALS - 1 sect	ion
Yes	1	Yes	0
No	2	No	1
SCIENCE - 3	sections	TYPING E 11 -	4 sections
Yes	1	Yes	1
No	2	No	1
		No respons	e 2

1

Responses - Question #1-continued.

 SHORTHAND - 1 section

 Yes
 0
 Yes
 0

 No
 0
 No
 1

 No response 1
 No
 1

 WOODS & CRAFTS - 1 section
 Yes
 0

 No
 1

RECAP

'Yes''responses 11
'No'' responses 14
'Other'' responses 5

TOTAL 30

QUESTION #1a. If yes, what kind of in-service training is needed the most? RESPONSES:

ENGLISH 10:

A session to introduce new teachers to methods of dealing with adults.

ENGLISH 11:

I believe we should know the work covered by both English 10 & II, so we can formulate a course of study and not have repetition.

HISTORY (AMERICAN):

For the people not familiar with the program.

Familiarize the faculty of trends and innovations in overall adult education.

HOME ECONOMICS:

No response to this part.

MATH:

For new teachers - also keep the 'old' teachers informed of new developments.

SCIENCE:

I feel that our preliminary meeting serves us quite well.



Science continued.

To	explain,	especially	for t	:he r	new	teachers	, just,	how	to proceed,
		f the studer							

TYPING:

Conference like	we attended in Dubuque last May.	Perhaps more
teachers of the	same subjects could get together.	<u> </u>

TOTAL (YES) RESPONSES 11

QUESTION # 2. Activity(ies) you found to be most helpful and interesting to your students in your teaching of this subject.

RESPONSES:

BOOKKEEPING - 1 section

Audio-visual aids.	1
Blackboard work by teacher.	1
Classroom illustrations by teacher.	1
Classroom discussion by student and teacher.	1
Homework assignments.	1
Workbook assignments.	1
ENGLISH 10 - 4 sections	
Audio-visual aids.	2
Blackboard work by teacher.	4
Book reports - written.	1
Book reports - oral.	1
Classroom illustrations by teacher.	1
Classroom discussion by student and teacher.	4
Explanations on the blackboard by teacher.	4
Explanations by the teacher (oral).	3
Guest speakers.	1
Homework assignments.	2
Lectures by the teacher.	1
Outside reading assignments.	1



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ENGLISH 10 continued.	4
Outside reading of novels or short stories.	1
Review of subject prior to testing.	2
Workbook assignments.	3
Other: Tape recordings of novels and short stories help very much because class members have such little time for outside reading.	1
ENGLISH II - 3 sections.	
Audio-visual aids.	2
Blackboard work by teacher.	1
Book reports - oral.	1
Classroom discussion by student and teacher,	3
Explanations on the blackboard by teacher.	1
Explanations by the teacher (oral).	2
Outside reading of novels or short stories. Review of subject prior to testing. Student speeches.	1 1 2
Workbook assignments.	1
GOVERNMENT (AMERICAN) - 3 sections.	
Audio-visual aids.	2
Blackboard work by teacher.	2
Classroom illustrations by teacher.	3
Classroom discussion by student and teacher.	2
Explanations on the blackboard by teacher.	2
Explanations by the teacher (oral).	3
Field trips.	1
Guest speakers.	2
Homework assignments.	2
Lectures by the teacher.	2
Outside reading of current events.	1
Review of subject prior to testing. Tests or quizzes. Workbook assignments.	1 2 1



HISTORY (AMERICAN) - 3 sections.	
Audio-visual aids.	2
Blackboard work by teacher.	2
Book reports - oral.	1
Classroom illustrations by teacher.	1
Classroom discussion by student and teacher.	•
Explanations on the blackboard by teacher.	1
Explanations by the teacher (oral).	3
Guest speakers.	2
Outside reading assignments.	2
Outside reading of current events.	1
Other: Several simulation activities were used that appeared to be rewarding.	1
HOME ECONOMICS - 2 sections.	
Classroom illustrations by students.	1
Classroom illustrations by teacher.	2
Classroom discussion by student and teacher.	•
Explanations on the blackboard by teacher.	1
Explanations by the teacher (oral).	1
Other: Host of our work was projects with individual help, or group actilies.	1
MATH - 3 sections.	
Blackboard work by teacher.	:
Classroom illustrations by student.	1
Classroom illustrations by teachers.	2
Classroom discussion by student and teacher.	2
Explanat ons on the blackboard by the teacher.	3
Explanations by the teacher (oral).	2
Homework assignments.	2
Review of subject prior to testing.	1



HATH continued.

ť

ilucu.	
Tests or quizzes.	1
Other: I used lots of worksheets consisting of business math, volumes, perimeters, areas and square root.	1
METAL SHOP - 1 section.	
Audio-visual aids.	1
Classroom illustrations by teacher.	1
Field trips.	1
Guest speakers.	1
SCIENCE - 3 sections.	
Audio-visual aids.	3
Blackboard work by teacher.	2
Classroom illustrations by students.	1
Classroom illustrations by teachers.	2
Classroom discussion by student and teacher.	2
Experiments in the classroom.	2
Explanations on the blackboard by teacher.	2
Explanations by the teacher(oral).	2
Homework assignments.	2
Lectures by the teacher.	1
Microscope use.	2
Outside reading assignments.	1
Outside reading of current events.	1
Review of subject prior to testing.	•
Tests or quizzes.	2
Other: Bringing in the importance of what we are doing in the classroom in relation to current happenings in science.	,



	•
SHORTI	HAND - 1 section.
В	lackboard work by teacher.
C	lassroom illustrations by teacher.
C	lassroom discussion by student and teacher.
E	xplanations on the blackboard by teacher.
E	xplanations by the teacher (oral).
Н	omework assignments.
0	utside reading assignments.
Te	ests or quizzes.
Wo	orkbook assignments.
01	ther: Additional outside reading of shorthand books and copies prepared by teacher.
TYPING	G & 4 sections.
В	lackboard work by teacher.
C	lassroom illustrations by teacher.
C	lassroom discussion by student & teacher.
E	xplanations on the blackboard by teacher.
E	xplanations by the teacher (oral).
L	ectures by the teacher.
01	ther: Drilling and practicing various typing skills.
	Speed drills.
WELDI	NG - 1 section.
A	udio-visua! aids.
C	lassroom discussion by student and teacher.
F	ield trips.
G	uest speakers.
0	ther: Projects.



	3
WOODS AND CRAFTS - 1 section.	
Audio visual aids.	1
Classroom illustrations by teacher.	1
Other: Individual instruction as problems arose.	1
QUESTION # 3. Activities found to be <u>least</u> helpful and interesting to your students in your teaching of this subject.	
RESPONSES:	
BOOKKEEPING - 1 section.	
No response.	1
ENGLISH 10 - 4 sections.	
Audio-visual aids.	1
Book reports (written).	1
Field trips.	1
Guest speakers.	, 1
Lectures by the teacher.	2
Outside reading assignments.	1
Outside reading of novels and short stories.	2
No response.	1
ENGLISH II - 3 sections.	
Book reports (written).	1
Book reports (oral).	1
Homework assignments.	1
Lectures by the teacher.	1
Outside reading of novels and short stories.	1
GOVERNMENT (AMERICAN) - 3 sections.	
Blackboard work by students.	1
Book reports (written).	1
Book reports (oral).	2
Classroom illustrations by students.	2



GOVERNMENT	continued.	9
	Field trips.	1
	Homework assignments.	1
	Outside reading of current events.	1
	Outside reading of novels and short stories.	1
	Student speeches.	1
	Tests or quizzes.	1
	HISTORY (AMERICAN) - 3 sections.	
	Book reports (written).	1
	Homework assignments.	2
	Lectures by the teacher.	1
	Outside reading assignments.	1
	Tests or quizzes.	1
	Workbook assignments.	1
	No response.	1
	Other: Students must enjoy their continued education and not be discouraged in any way.	1
	HOME ECONOMICS - 2 sections.	
	No activity was least helpful.	1
	No response.	1
	MATH - 3 sections.	
	Tests or quizzes.	1
	No response.	2
	METAL SHOP - 1 section.	
	Homework assignments.	1
	SCIENCE - 3 sections.	
	Classroom illustrations by students.	1
	Experiments in the classroom.	1
	Homework assignments.	1
	Lectures by the teacher.	2

SCIENCE continu	ued.	1
i	Microscope use.	1
:	Student speeches.	1
SHOR	THAND - 1 section.	
ſ	No response.	1
TYPI	NG ! & II - 4 sections.	
1	HOmework assignments.	1
ļ	No response.	2
1	No activity was least helpful.	1
WELD	ING - 1 section.	
	Homework assignments.	1
	Outside reading assignments.	1
WOOD	S AND CRAFTS - 1 section.	
	No response.	1
QUESTION	# 4. Problem(s) you encountered in this class the past semester, as a teacher.	
RESPONSE	S:	
ВООК	KEEPING - 1 section.	
	Attendance.	1
ENGL	.ISH 10 - 4 sections.	
	Excessive "drop-outs".	2
	Variety of knowledge & ability to comprehend.	1
	No response.	1
ENGL	.ISH II - 3 sections.	
	None.	
GOVE	ERNMENT (AMERICAN) - 3 sections.	
	Once I found their level of ability It was fine.	•
	Pre-post test not related to our text or to a current events oriented course.	
	None.	



)UE	STION # 5. In what way(s) do you think this class might be improved?	12
RES	PONSES;	
	BOOKKEEPING - 1 section.	
	None.	1
	ENGLISH 10 - 4 sections.	
	It seemed the biggest problem was "dropouts".	1
	Excessive dropping of the course.	1
	Variety of knowledge and ability to comprehend.	1
	None.	1
	ENGLISH II - 3 sections.	
	None.	3
	GOVERNMENT (AMERICAN) - 3 sections.	
	Money for current magazines and papers (but this is my problem in high school also).	1
	None.	2
	HISTORY (AMERICAN) - 3 sections.	
	Maybe by use of guest lectures and audio-visual aids.	1
	I was satisfied with our progress.	1
	No response.	1
	HOME ECONOMICS - 2 sections.	
	I think some sample techniques done by the students would have been helpful. before they reached that point in the construction of the garment.	1
	No response.	1
	MATH - 3 sections.	
	Some programmed learning material for the students so they could progress at their own rate.	1
	I change it a little every quater, but it is hard to get some adults to accept the fact that they will use the math.	1
	None.	



	13
METAL SHOP - 1 section.	
Field trips and more equipment.	1
SCIENCE - 3 sections.	
The use of Patterns and Processes by BSCS. The workbook for each student. Something similar for the physical sciences.	1
Go to individualized teaching method.	1
None.	1
SHORTHAND - 1 section.	
I feel students should realize that this course requires a tremendous amount of outside work - the more time spent on it, the better the results.	1
TYPING & - 4 sections.	
Perhaps "stiffer" typing standards - include stencil and ditto work, include a letter writing unit.	1
Make sure only beginners are in Typing 1.	1
None.	2
WELDING - 1 section.	
No more than ten students. Some nights should be longer and others shorter. There would be several things I would do differently if I taught this class again.	1
WOODS AND CRAFTS 1 section.	
Having many students take the same course over, unless there is a definite interest, could present a problem.	. 1
QUESTION # 6. Additional comments you might like to make that have not been covered by this questionnaire?	
RESPONSES:	
BOOKKEEPING - 1 section.	
None.	1
ENGLISH 10 - 4 sections.	
No response.	2
None.	2



ENGLISH II ~ 3 section.	
No response.	1
None.	2
GOVERNMENT (AMERICAN) - 3 sections.	
A very worthwhile program for adults, and I feel it is too bad funds are being decreased instead of increased.	1
Students seem to be less concerned.	1
None.	1
HISTORY (AMERICAM) - 3 sections	
The pre-post test (Stanford Achievement) for American History is believed by most students not to be a true indication of their learning experience.	1
No response.	2
HOME ECONOMICS - 2 sections.	
The girls seemed to enjoy being able to choose what they would make and do.	1
None.	1
MATH - 3 sections.	
This class, as compared to the last year's class, didn't have the abilities and didn't cover all I had hoped to. They wanted to work on fundamentals. I guess it paid off, according to the prepost testing.	1
No response.	1
None.	1
METAL SHOP - 1 section.	1
No response.	1
SCIENCE - 3 sections.	
I found that films dealing with the topics for the evening very useful. Well worth the time taken to order them.	1
None.	2
SHORTHAND - 1 section.	
No response.	1



	15
TYPING - 4 sections.	
Five or six students have shown a strong interest in taking an office machines course next fall.	2
No response.	1
None.	1
WELDING - 1 section.	
I enjoyed the class very much. I believe I learned as much as the students.	1
WOODS AND CRAFTS - 1 section.	
Mone.	1

WHY TABULATE THIS DATA?

The teacher might gain some insight into his class, make some observations about his teaching or the tests used by reviewing some of these results.

The mean, median and mode may give a good picture of the average performance of a class, the mean being useful in additional statistical manipulation.

The range may give you an idea of the differences in abilities or prior knowledge which will affect how you teach the group.

The gains (or losses) between pre-post tests may give some clues to the suitability of the tests used or the teaching methods employed.

Standard Errors give some idea of what the true score might be, by adding or subtracting the SE to the obtained score (score made by the student).

Correlations, r or rho, useful in determing relationships and levels of confidence should help the teacher make some decisions about his teaching,

The following details of formulas used, etc. are given for the benefit of anyone who may be interested in how the figures were obtained or to check on their

The pre-post test results of the twenty classes that administered pre-post tests, (10 classes did not) during the first semester of the 1969-70 school year will be found on the following pages. The data was tabulated for each class tested, and treated statistically in several different ways. In order to help interpret some of the statistical treatment, the following explanations are given:

- 1. MEAN is the arithmetic average obtained by totaling the scores obtained and dividing by the number of scores entering into the total.
- 2. MEDIAN is the middle score obtained by finding the point above or below which half the scores lie. It is found by counting into the distribution.
- 3. MODF 's the most often occuring score. Because of the small class sizes. no moues were listed
- 4. RANGE is the difference between the largest and smallest scores obtained. It is recorded here as the low score and the high score.



- 5. STANDARD DEVIATION is a measure of variability calculated aroung the mean There are two different formulas used on the following pages, and this has been figured three different times both as a check for accuracy and for different purposes. The formulas used were:
 - where 2 is the square of the difference between the obtained score and the mean.

 is the sum of those squares.

 N is the number of scores.

 V is the square root symbol.
 - s = $\frac{\sqrt{2} \times 2}{\sqrt{1}}$ the only difference here is that one (1) is subtracted from N before dividing. This is recommended for samples under 30.
 - $o = \sqrt{2 \pi \lambda}$ same formula as the first. The o = 1 stands for standard deviation and the symbol is called sigma.
- 6. CORRELATION refers to the relationship between two sets of scores, in this class pre to post scores. Two correlations were figured, one the RANK difference method which compares the rank of a student score on one test with the rank of his score on a second test. This gives us a correlation called rho (6).
 - (rho) = 1.00 (N(N(N))) where (diff) is the difference in rank of the two scores squared. This provides a check on whether students were intentionally scoring low on the pre test to show large gains on the second test. If this were happening the rho correlation would be extremely low.

LINEAR CORRELATION, r, provides a measure of the relationship between two variables (test scores), and can be used to enter tables of confidence to determine the significance of the r.

wis the difference between the mean and the pre-test score, y the difference between the mean and the post-test score.

7. STANDARD ERROR OF THE MEAN (SEm) is found by using the formula SEm=Vm in which s = verifical From these calculations at score or critical ratio may be found by the formula t = second in which D is the difference between the mean and zero, and SEp is the standard error of the mean difference. A t-table may then be entered to determine the level of confidence of the score as a test against the null hypothesis.

The null hypothesis asserts that the true mean difference between the two tests being compared is actually zero, and that the obtained difference is inconsequential and could well be zero or could have been obtained by chance in rejecting the null hypothesis we assert that the difference obtained is significant. In accepting the null hypothesis we concede that the difference May well be zero.

When the levels of confidence reach the .05 or .01 levels we may be fairly confident that student improvement occurs during conduct of the class because of the teacher and student and not because of chance.

Subject: American Government Teacher: L

Name of Test: Magruder's Amer. Gov't. Form of Test: Pre " Dates given: Pre - 9-8-69 Post-12-17-69 Scores Reported: Raw

Highest Possible Score: 150

ighest Possible	e Score: 1	50		ros	12-17-09
Student	Rank	Pre-test	Rank	Post-test	Gain or Loss
1	3	89	3	125	36
2	8	76	7.5	104	28
3	1	95	1.5	138	43
4	4.5	85	1.5	138	53
5	7	77	10	96	19
6	6	81	5.5	109	28
7	4.5	85	9	101	16
8	9.5	75	11	94	19
9	11	70	7.5	104	34
10	9.5	75	5.5	109	34
11	2	91	4	123	32
TOT	ALS	899		1241	342 31
	Pre	Post	M	verage gain Pre	Post
Mean Median Mode Range SD √2√2 rho = .67	81.7 81 none 70-95 7.4	112.8 109 none 94-138 15.0		4.2 2.3 10.96 / 2.7 3.31 9.36 10 ificant at .01	

~· 15.019 Signigicant at .01 level Teacher:

Subject: American Government
Name of Test: Stanford Achievement (Advanced)
Scores Reported: Grade Equivalent
Highest Possible Score: 12.9 Form of Test: Pre W Post X
Dates given: Pre 9 - 8-69
Post 12 -17-69

Student	Rank	Pre-test	Rank	Post-test	Gain or Loss
1	4.5	8.7	3	10.0	1.3
2	3	10.4	7	7.7	-2.7
3	2	10.7	1	11.7	1.0
4	6	8.6	6	7.9	~ .7
5	, 8	7.6	5	8.4	.8
6	7	8,4	4	9.6	1,2
7	1	11.4	2	11.4	pM 199
8	4.5	8.7	8	7.6	~1.1
9	9	7.2	9	7.2	•••
10*	oon gaassa oo gaalah isti ka aabi oo qaasiib isti biriis waxaa	ene Taglikaniyanigan enib danlarınan asını ilkili ilkili dili bili sakı sakı sakı sakı sakı sakı sakı sakı	a nuthrupa sakun mirkunungkuliki - mannay suid Astainbili		ert est
TOTA	ALS	81.7	uar all e ddinnaen daenegyar valden e er rydannagdyngamleiden o oa	81.5 AVERAGE GA	-,2 INS02

* Une score not reported - post-test score available only.

Mean 9.1 9.1 SE .85 .7 Median 8.7 8.4 So $\sqrt{2.4.2.}$ = 1.3 Mode none SE _{MD} $\sqrt{N-1}$ = .43		Pre	Pos t		Pre	Post
Median 8.7 8.4 So $\sqrt{2} = 1.3$ Mode none SE _{MD} $\sqrt{N-1} = .43$		F10	rost		116	1036
Range 7.2 -11.4 7,2 -11.7 t = .046 SD $\sqrt{2}$ 1.3 1.2 df = 8 Not significant $\sqrt{2}$ = 1.33 $\sqrt{2}$ = 1.57 Not significant	Median Mode Range SD √2.×2 rho 4.57 → .52 -1.33	8.7 none 7.2 -11.4 1.3	8.4	So VE ALZ. SEMO N-T df	= 1.3 = .43 = .046 = 8	. 78



Subject: American Government

Name of Test: Social Studies Scores Reported:Stanines

Highest Possible Score: 9

Teacher: Z

Form of Test:Pre W Post W Dates given: Pre 9 - 8 - 69

Post 12 -17 - 69

Student	Rank	Pre-test	Rank	Post-test	Gain or Loss
1	6	6	3.5	9	3
2	3	8	3.5	9	1
3	8	2	8	4	2
4	3	8	3.5	9	1
5	1	9	3.5	9	ea .
6	5	7	3.5	9	2
7	7	5	7	6	1
8	3	8	3.5	9	1
9*		gertra		***	
TOTALS	nterior - populary productor : pilonerii estimboluscosi:	53	erandradingsvaldig of a singlephysical grands	64	11

*One score not reported · pre-test score available only.

	Pre	Post
Mean	હ. 6	8.0
Median	6.6	9.0
Mode	8	9
Range	2-9	4-9
SD V	2.1	1.7
rho $^{19} = .82$	i I	
~ = ·97	•	
0 = 2.1		
ت = 1.79		
Significant at	the .ol	level.

Post Pre .72 .89 SE 4.41 df 7 Significant at the .01 level.

1.37

AVERAGE GAIN



American History

Name of Test: Crary
Scores Reported: Percentiles (General)
Highest Possible Score: 99

Teacher:

Form of Test: Pre E Post E
Dates given: Pre '9 - 3 -69
Post 12 -17 -69

Student	Rank	Pre-test	Rank	Post-test	Gain or Loss
1	2	56	6	56	***
2	8	11	2	77	66
3	4	29	4.5	66	37
4	5	17	8	29	12
5	3	49	3	74	25
6	6	15	4.5	66	51
7	7	13	7	42	29
દ	1	82	1	94	12
9*		····		9 <i>0</i> 00	6.9
10%	nt int anachter. Brooms inhuman ind alter advan	PMP BY ENGAGEMENT SHEET STATES SEEDINGS STATES SEED SEED SEED SEED SEED SEED SEED S	nsunis reasonationalis industri literato polisticia interes depositati	glar definitions from the another another states and the signes of the states and	pere
calleger all this selects on appoint widows consis	TOTALS	272	yr Mhannagaray Younnagh Pulanti y alghi i Nagashi addisisishi	504	232
			Avera	ge gains	29

^{*} Two scores not reported - pre-test scores available only.

	Pre	Post		Pre	Post
Mean Median Mode Range SD √€	34 23 none 11-82 24.1	63 66 none 29-94 19.4	SE $S_{\rho} \sqrt{\frac{2 \alpha \delta^{2}}{\sqrt{1 + 1}}} = SE_{\rho}$ $SE_{\rho} \sqrt{\frac{2 \alpha \delta^{2}}{\sqrt{1 + 1}}} = df$	21.0 20.7 7.35 3.94 7	16.9
rho $^{\prime\prime}$.24 87 24.1 24.1 29 = .24.1 Significant at	the .01 lav	e 1	Significant	at the .(Ol level.

40.25

	Crary Perce	can History Intiles (General) 99		Teacher: Form of Test: Dates given:	Pre 9	
Student	Rank	Pre-test	Rank	Post-test		Gain or Loss
1	3	15	£4	39		24
2	2	46	2	93		47
3	L .	11	3	56		45
. 4	1	49	1	94		45
5*	s understanding the state of the state and states and	NO PROVIDE AND AGAINGTON APPLY AN EXPENDING HOSPINGS OF THE PROVIDE ANALOGO AND	s planeja vestov nazdov A.MV d'Allejanski vestilini oriti	jesa	aga,umatungkangkanya kumptan diskiron daukanturun	illes
ZOTALS		121		282		161

Average gain

* One score not reported - post-test score available only.

	Pre	Post		Pre	Post
Mean Median Mode Range	30.2 25.5 none 11-49 17.3	70.5 75 none 39-94	SE SO V =	7.7 10.87 5.437 7.4 3	10.6
SD $\sqrt{80}$ rho = .80 = .94 = 17.3 = 23.7 Very close at		23.7 significant at .01	Significant	-	01 level.

The difference in significance of the + and the t is most likely due to the small class size where degrees of freedom for + = n-2.

American History

Crary

Name of Test:

Scores Reported: Percentiles (General)

Highest Possible Score: 99

Teacher; \$

Form of Test: Pre F Post E

Dates given: Pre 9 - 0 - 63 Post 12-17 - 69

Student	Rank	Pre-test	Rank	Post-test	Gain or Loss
1	4	9	3.5	21	12
2	1	17	1	60	<i>l</i> 43
3	5	2	5	ប់	Lþ
L.	2	12	2	34	22
5	3	10	3.5	21	11
%ن		-		NO.	ţ AA
7*	gend I 1888, djenov t Ja – dao j yteropolog pomotopolog god –100°	PM 45P* 18 Mg Shight St 1814 - Theologic per procedure benderromes, suppressed	enchall a 1 del chall and distribusions from all 1 by 1	N ATE DESTRUCTED CON- 24- Expression Cont Embryon - House, control destruction - House, control destru	м з 1 удовалат эмерикануу е т дамже 1 — дамжардай байдаалар калуу з . дамжер замену са зайтан с з дамжан з така са
managan umuya — apagaman pama paman (dinyana nagaman	TOTALS	50	74	142	92
				Average gain	15.4

*Two scores not reported - pre-test scores available only.

	Pre	Post		Pre	Post
M ean Median	10 10	25.4 21	SE S/ \\\ = \\	. შ 15.26	3.1
Mode Range	none 2-7	none 6-18	SENIN	6.82 2.69	
SD √E ZE rho =	4.0	15.1	df Almost signi	4	the .05 but
6	4.8 10.1 .95		not significa		
		not .01 level.			

English 10

Name of Test:

English 10
Stanford Achievement(Adv.)

Scores Reported: Grade Equivalent

Highest Possible Score: 12.9

Teacher: , J

Form of Test:Pre W Post X

Dates given: Pre 9 - 8 - 6; Post 12-17 - 69

Stu	dent Spell (Pr	. Lang. e - Test)	Spell. (Post -	Lang. Test)	Spell. Lan (Gain or Loss	-
	1 8.2	6.9	10.8	10.2	2.6 3.	3
	2 6.8	6.8	9.0	9.9	2.2 3.	1
	3 6.8	7.7	11.9	12.0	5.1 4.	3
managgioralizacione i i regionare e se che	4 4.6	7.2	5.7	9.6	1.1 2.	4
TOT	ALS 26.4	28.6	37.4	41.7	11.0 13.	1
			A	verage Gains	2.75 3.	3
Mean Median Mode Range SD	6.6 6.8 non 4.6 8.2	7.05 e none - 6.8- 7.7	9.35 9.9 none 5.7- 11.9 2.3	10.4 9.05 none 9.6- 12.0		
rho SE	.6 .7		1.36	.69		
S _O √2 √2 √2 × 5 E _{MO} t df	1.		(s	LANG. .248 .124 26.6 3 ignificant a	t the .01 level)	
7-9	1.	24 at either		.81 .34 933 ot significa 05 or .01 le	nt at either vel)	

The difference in significance of - and t is probably due to small class size where degrees of freedom for + = n-2.

Subject: Name of Test: Scores Reported: Highest Possible	Grade Equ	Achievement ivalent	(Adv.)	Teacher: Form of Tes Dates given	K t:Pre V : Pre 9 - Post 12 -	8 - 69	
Student	Pre - to Spell "	est Lang.	Post-te Spell.	st Lang.	Gain or Spell.	Loss Lang	
1	7.9	7.3	11.1	10.4	3.2	3.1	
2	7.9	4.4	8.6	7.9	.7	3.5	
3	12.5	6.1	12.7	7.9	. 2	1.8	
4	11.6	8.6	10.6	10.7	-1.0	2,1	
5	9.3	8.0	9.6	8.2	.3	.2	nsavodoseanodo (colintro)
TOTALS	49.2	34.4	52.6	45.1	3.4	10.7	y agangadhir na ann ar a' dharin a
			<i>[</i>	verage Gains	.7	2.1	
	9.8 9.3 none 7.9- 12.5 1.9 .575 1.2 SPELL. 1.54 .69 1.01 4 ificant at 01 level)	6.9 7.3 none 8.6- 12.7 1.4 .375 .48		9.0 8.2 none 7.9 10.7 1.2 .42 LANG. 1.28 .58 3.62 4 ignificant a		level)	
Y (Not sign .05 or .	.86 1.9 1.4 nificant at 01 level)	either		.85 1.4 1.2 ot significa 05 or <i>2</i> 01 le		r	



Subject: Name of Test: Scores Reported Highest Possibl	: Grade Eq	Achievement uivalent	(Adv.)	Teacher: Form of Te Dates give	· · · · · · · · · · · · · · · · · · ·	ost X 8 ~ 69 17 - 69	
Student	Spell. Pre - T	Lang. est	Spell. Post - T	Lang. est	Spell. Gain or	Lang. · Loss	
1	9.0	8.4	11.5	10.4	2.5	2.0	
2	11.7	6.8	11.7	8.2	-	1.4	
A Service Service (Service Comment Comment Comment	3.8	6.0	6.2	6.5	2.4	.5	1444, C. 744,
TOTALS	24.5	21.2	29.4	25.1	4.9	3.9	B. 10 251, 21/20-12.0
•				verage gain	s 1.6	1.3	
Mean Median Mode Range SD √≤ ×2 rho SE SE NO SE Not sign	8.2 9.0 none 3.8- 11.7 3.3 .50 2.3 SPELL 1.4 .816 1.96 2 nificant	7.1 6.8 none 6.0- 8.4 1. 1.00	9.8 11.5 none 6.2- 11.7 2.5	8.4 8.2 none 6.5- 10.4 1.6 - LANG. .75 .435 3.00 2 ot significa	nt		
on Not sign	.95 3.3 2.5 nlficant		Ne	.99 1.0 1.6 ot significa	int		



Subject: English 10
Name of Test: Stanford Achievement (Adv.)

Scores Reported: Grade Equivalent Highest Possible Score: 12.9

Teacher: ME

Form of Test:Pre W Post X

Dates given: Pre 9 - 8 - 69
Post 12-17 - 69

	Pre - 7	[est	Post-te	Post-test		r Loss	
Student	Spell.	Lang.	Spell.	Lang.	Spell.	Lang.	
1	12.9	8.8	12.9	10.0	-	1.2	
2	6.4	7.6	7.2	11.5	8.	3.9	
3	12.5	10.6	12.7	11.3	. 2	.7	
4	9.3	9.3	11.7	10.3	2.4	1.0	•
5	10.2	9.8	9.9	10.5	3	.7	
6×	***		-	-		-	
7*	-	1444		-		vn.	•
8#	emp	n diproduce Spainstein bei an de la company de la comp	- 1994 milys 2 mily yagis seedheeredooreda vertenbellen jahelindelijkelijke	 	ganta 	##73	
TOTALS	51.3	46.1	54.4	53.6	3.1	7.5	
				Average Gains	.6	1.5	

*Three	scores	not	reported	444	nre	or	nact	tect	ernres	avat	lahla	only
~	300163	1106	1 CDOI LEG		DIE	OI	DOSE	LESE	scores	avai	iable	on iv.

Mean Median Mode Range	10.3 10.2 none 6.4- 12.9	9.2 9.3 none 7.6- 10.6	10.9 11.7 none 7.2- 12.9	10.7 10.5 none 10.0~
SD \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2.4	1.0	2.1	. 55
rho M SE	. 90 . 77	0 1.0	.66	.55
	SPELL.			LANG.
SE VENZO SEMO t df	1.08 .483 1.24			1.37 .612 2.45
df Not sign	4 ificant		Not	4 significant
~	.97			.84
5-26	2.3			1.0
04	2.1			. 55

Significant at the .01 level

The difference in A and t significance is probably due to small class size.

Not significant

Subject: English II
Name of Test: Stanford Achievement (Adv.)
Scores Reported: Grade Equivalent
Highest Possible Score: 12.9

Teacher: D

Form of Test:Pre W Post X
Dates given: Pre 9 -8 - 69
Post 12-17-69

Student	Pre - 1 Spell	Test Lang	Post - Spell	Test Lang	Gain or Spell	Loss Lang	
1	11.8	8.0	11.8	8.8	, 	.8	
2	8.8	7.9	11.1	9.0	2.3	1.1	
3	8.0	8.6	9.5	10.5	1.5	1.9	
4	9.0	9.3	11.7	10.0	2.7	.7	
5	11.6	11.5	12.2	7.7	.6	-3.8	
6	5.9	11.1	7.2	4.9	1.3	-6.2	
7	11.1	8.0	10.8	10.0	3	2.0	
8%	a t figur à skivutage "némellistiche debitalistiche designation designation augst sough	na – popularia materia de subfinido de producto de subfinido por el como de subfinido por el como de subfinido de subfinid	telet				alle de la companya
TOTALS	66.2	64.4	74.3	60.9	8.1	- 3.5	andre de la companya
				Average Gains	1.2	5	held traditions and man

	*One s	core not re	ported -pre	e-test score	available only.
Mean Median Mode Range SD \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	V Jan	9.4 9.0 none 5.9- 11 2.0 .86	1,4	10.6 11.1 none 7.2- 12	.2 10.5
SE		.75 Spell	1.67	.60	2.28 LANG.
$\begin{array}{c} S_{\mathcal{O}} & \sqrt{\underline{z_{\mathcal{N}}}} \\ SE_{\mathcal{N}\mathcal{O}} \\ t \\ df \end{array}$		1.12 .42 2.83 6			3.162 1.19 .420 6
uı		ficant at but not a			Not significant
-t		.94 2.0 1.6			.74 2.0 1.8
ı J	(Signi level	ficant at	the .01		Not significant



Subject: Name of Test: Scores Reporte Highest Possil	ed: Grade Eq	Achievement uivalent	(Adv.)	Teacher: Form of ' Dates giv	L Test:Pre ven: Pre 9 Post 1:	Post - 8 - 69 2-17 - 69	
Student	Pre - Te Spell.	st Lang.	Post - Spell.	Test Lang.	Gain o	r Loss Lang.	
1	9.3	6.0	7.8	8.4	-1.5	2.4	
2	7.2	6.8	10.2	6.2	3.0	6	
3	12.4	10.5	12.7	11.7	.3	1.2	
4	9.3	6.2	8.6	9.8	7	3.6	
summerican principal description description description of the second	8.0	7.1	9.0	6.8	1.0		hante disse tradegle que approve de la constitución de
TOTALS	46.2	36.6	48.3	42.9	2.1	6.3	Married by games where the state of a set
			8	Average Gain	s .4	1.3	skylitedry rythiotoroxidator attire - w c
Mean Median Mode Range SD √₹ Tho SE SE SE Not s Not s	9.2 9.3 none 7.2- 12.4 1.7 .19 1.5 SPELL. 1.732 .774 .516 4	7.3 6.8 none 6.0- 10.5 1.6 .20	9.7 9.0 none 7.8- 12.7 1.7	8.6 8.4 none 6.2- 11.7 2.0 1.8 LANG. 1.541 .689 1.88 4	cant		
of Not	.77 1.7 1.7 significant			.80 1.6 2.0 Not signific	can t		



English II

Teacher:

Name of Test:

Stanford Achievement (Adv.)

Form of Test:Pre ! Post X 9 - 8 - 69 Dates given: Pre

Scores Reported: Grade Equivalent

Highest Possible Score: 12.9

Post 12 -17--69

	Pre - To		Post ~	Test Lang.	Gain o Spell.	r Loss Lang.	
Student	Spell.	Lang.	Spell.				
1	10.4	10.0	11.8	11.9	1.4	1.9	
2	11.7	10.9	11.9	11.8	. 2	.9	
3	7.2	8.0	9.9	9.9	2.7	1.9	
4	10.4	7.9	11.3	9.3	.9	1.4	
5	9.3	10.1	11.6	10.9	2.3	.8	
6	5.7	9.0	9.6	10.4	3.9	1.4	
7*	-	•	p-4	bee	**	**	
% ئ	top	n a	MIT		ميو	4 ****	
9*	-	**	***	şire.	-	Ass	
10%	**	••	644	-	••	h-#F	
11*	pia	••	gust	ano	•	**	
12*	MHI	d r white we district transcript receiving the principal desiration of the second	gaid	ndo a laminfrante en são o hace de anacida e de acesso.	gradi	g ·	
TOTALS	54.7	55.9	66.1	64.2	11.4	8.3	ga Sandar de Richard de Arthur de Ar
हरू स्थल विकास स्थापना स्थापना विकास स्थापना विकास स्थल है। स्थल स्थल स्थल स्थल स्थल स्थल स्थल स्थल				Average	Gains 1.9	1.4	engana e minimi emakan prass - praesis es dimensionistation

an	9.1	9.3	11.0	10.7	
• • •		Mar. 100	11.45		
lian	9.00		2020	none	

*Six scores not reported - pre-test scores available only.

Mear Medi none Mode none none none 9.3-9.6-5.7-7.9~ Range 11.9 11.9 11.7 10.9 .9 1.1 .9 2.0 .83 .90 rho .28 .37 .45 .6 SE

SPELL. LANG. LANG. SPELL. .95 .92 1,33 .447 2.0 1.1 .182 .543 .9 .9 7.69 3.49 5 5 df

(Significant at the .05 level but not at the .01 level)

(Significant at the .01 level)

(Significant at the .01 level)

(Significant at the .01 level)

Math

Stanford Achievement (Adv.) Hame of Test:

Scores Reported: Grade Equivalent Highest Score Possible: 12.9

Teacher: BE

Form of Test:Pre W Post X

9 - 8 - 69 Dates Given: Pre

12 17 - 4

Student	Р	Pre-test			Post-test			Gain or Loss		
· Legislandarrane hard stebs only graving or and drifter tips and with their "distribution	A 1	2	3		2	3	1	2	3	
1	11.2	11.1	12.7	12.1	12.7	12.9+	.9	1.6	.2	
2	6.2	6.4	8.2	8.4	7.6	10.4	2,2	1.2	2.2	
3	5.4	6.6	11.9	10.8	9.9	12.7	5.4	3.3	.8	
4	8.0	6.6	8.5	8.4	10.3	12.1	.4	3.7	3.6	
5	6.6	8.0	8.2	8.4	8.0	11.6	1,8		3.4	
6	5.6	5.7	6.0	5.6	4.0	6.3	-	-1.7	.3	
7	9.6	10.5	10.8	9.6	12.0	12.3	-	1.5	1.5	
3	8.0	9.2	10.3	10.5	12.2	11.9	2.8	3.0	1.1	
18%	gad r "sphot saa - zi <u>is ceali</u> ordas aptr "adardista li sacc	e de	gels	der den ta kentrekensker verkriverkes met	Pet	PPG		e to	#F	
TOTALS	60.6	64.1	77.1	74.1	76.7	90.2	13.5	12.6	13.1	
hamining and a time of the contract of the contract of the second of the	aryung-nijunduk-anigi ye - gara-baba-histokir usab birindhiranikir - ;	rade y placement decimal apparations	anteriology ageing activity is despected the second	iyaariiyaa Pililika keriiti aaruussi gabaayiidha adhi	Averag	e Gains	1.7	1,6	1.6	

*Ten scores not reported - pre-test scores available only.

Median Mode Range SD V 2 2 2 2 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7	none 5.4-	11.1 1.9	9. 65 none 6.0-	9, 0 none 5.6- 12.1	none 7.5- 12.7 2.7	11.3 12.0 none 6.3- 12.9 2.0
3 E	1.37	.7	. 45	1.37	. 85	. 45
SO VE NO SE MO t		#1 1.8 .636 2.67 7 gnifica		#2 1.7 .601 2.66 7 .05 but	2.6 7	501
- myter		.86		. 86	• .	90
or or or		1.9		1.9	2.	
		1.9		2.7	2.0	
y	(Si	gnifica	int at	both .0	5 and .0	i level)

Subject: Math
Name of test: Stanford Achievement (Adv)
Scores Reported: Grade Equivalent
Highest Possible Score: 12.9

Teacher: BU

Form of Test:Pre W Post X
Dates given: Pre 9 - 8 - 69
Post 12 -17 -669

Student	Pre-tes		Po	st-test		Ga	in or L		
minimum promoter and the second secon	1 2	3	 	2	3	<u>, , , , , , , , , , , , , , , , , , , </u>	2	3	aparan establisher
1	7.8 7.4	12.1	9.6	11.4	10.4	1.8	4.0	-1.7	
2	7.8 8.2	8.2	8.6	8.8	9.8	.8	.6	1.6	
3	10.4 11.1	11.1	11.9	11.8	11.3	1.5	.7	. 2	
4	5.4 8.6	10.4	9.6	9.2	8.5	4.2	.6	-1.9	
5	6.4 6.9	9.1	8.4	8.0	11.3	2.0	1.1	2.2	
6	5.4 6.0	4.4	7.2	6.6	6.7	1.8	.6	3.3	
any pusuanagundasia. Birassa-pasa-andraano: on osa i sar-angle;;;(dokudy-mnik i dire r	5.4 6.2	6.7	11.7	11.6	11.3	6.3	5.4	3.6	egany firm (namidrany)
TOTALS	48.6 54.4	62.0	67.0	67.4	69.3	18.4	13.0	7.3	vid-to-indo-intelatorial s-ast
				Averag	e Gains	2.6	1.9	1.0	
Mean Median Mode Range SD √E 22 rho SE	6.9 7.8 6.4 7.4 none none 5.4- 6.0- 10.4 11.1 1.7 1.6 .39 .54 1.3 1.1	8.9 9.1 none 4.4- 12.1 2.5 .32 2.06	9.6 9.6 none 7.2- 11.9 1.6	9.6 9.2 none 6.6- 11.8 1.8	9.9 10.4 none 6.7- 11.3 1.6				
S VEIX. SI SEMIC t df	#1 3.72 1.41 3.7 6 (Signifi at .01		#2 3.97 1.5 2.4 6 (Almost signifiat .05	cant	#3 2.63 .99 1.6 6 (Not sign	ificant) _,			
+ 07 07	.84 1.7 1.6 (Signifi at .05		.87 1.6 1.8 Signific at .01)		.87 2.5 1.6 (Significat .01)	ant			

Math

Name of Test: Stanford Achievement (Adv)

Scores Reported: Grade Equivalent Highest Possible Score: 12.9

Teacher:

R

Form of Test:Pre W Post X
Dates given: Pre 9 - 8 - 59
Post 12-17 - 69

Student	a. duit muit dans America . 4	2	3	1	st-test 2	3	11	in or Lo 2	55 3
1	6.4	7.2	6.3	8.4	8.5	10.8	2.0	1.3	4.5
2	5.6	10.5	11.1	11.7	12.2	11.3	5.5	1.7	. 2
3	5.8	6.0	7.2	7.2	6.6	7.4	1.6	.6	. 2
4	8.2	7.6	8.5	10.0	10.3	11.6	1.8	2.7	3.1
5	6.2	6.0	6.2	8.6	8.5	10.8	2.4	2.5	2.6
6	5.4	8.0	10.4	9.6	9.6	11.1	4.2	1.6	.7
7	7.8	9.2	7.9	9.2	9.9	9.1	1.8	.7	1.2
8	7.2	7.6	9.8	10.4	11.4	12.9	3.2	3.8	3.1
9	7.6	8.6	11.5	9.2	11.6	11.3	1.6	3.0	. 2
10	6.0	7.4	7.9	8.0	8.8	11.1	2.0	1.4	3.2
11	11.9	12.6	12.7	12.9	12.9	12.9	1.0	. 3+	. 2
12a	12.3	11.6	12.5	12.3	12.6	12.9+	ende.	1.0	. 44
TOTALS	90.4	102.3	114.0	117.5	122.9	133.2	27.1	20.6	19.2
environmental process of the control		AND THE PROPERTY OF THE PROPER	Applificant of Stress Spy value (2008).	a s varie má memoriemus <u>silvi</u> s	Average	Gains	2.3	1.7	1.6
Median Median Mode Range SD VENT Tho SE	7.5 6.8 none 5.4 12. 2.2 .49	none 6.0- 3 12. 2.0 9 .95	6.3- 6 12.7 1.4 .87	9.8 9.4 none 7.2- 7 12.9 1.7	10.2 10.1 none 6.6- 9 12.9 1.8	11.1 11.2 none 7.4- 12.9 1.5			
Sto VE TO TO SEMO t df		.90 2.2 1.7		. 92 2.0 1.8	and .01	#3 2.55 .736 4.57 11 level) .69 2.1 1.5 ignificant	at .05	but	

Science

Teacher:

Name of Test:

Stanford Achievement (Advanced)

Form of Test:Pre W Post X Dates given: Pre 9 - 8 -69 Post 12 - 17 -69

Scores Reported: Grade Highest Possible Score: 12.9

Student	Pre-test	Post-test	Gain or Loss
1	10.0	10.6	.6
2	12.1	12.1	-
3	11.4	11.2	+.2
4	10.4	11.4	1.0
5	10.4	10.6	. 2
6	6.3	8.7	2.4
7*	gadi Sperior - Bassass Ann I Han - Sperior Anno Anno Anno Anno Anno Anno Anno An	MA. Annua kananan interkentakan manan kananan kananan kananan kananan kananan kananan kananan kananan kananan kana	
TOTALS	60.6	64.6	4.0
P. Commission of the state of t		Averag	e Gains .7

*One score not reported - pre-test score available only.

Mean	10.1	10.8
Median	10.4	10.9
Mode	none	none
Range	6.3 - 12.1	8.7-12.1
SD VIII	1.8	.7
rho ~ · · · · · · · · · · · · · · · · · ·	.88 .62	. 24

Significant at the .01 level. = 1.00

= 1.8 = 1.0

=.8944 SEMO **=.365**

= 1.81 not significant at either the .05 or .01 level.

Subject: Science
Name of Test: Stanford Achievement (Adv)
Scores Reported: Grade Equivalent
Highest Possible Score: 12.9

Teacher: M

Form of Test:Pre W Post X
Dates given: Pre 9 - 8 - 69
Post 12 -17 - 69

Highest Possible	e Score: 12.9		1036 12 17 05
Student	Pre-test	Post-test	Gain or Loss
1	6.7	10.0	3.3
2	8.0	10.4	2.4
3	8.0	10.0	2.0
4	10.2	12.1	1.9
5	6.9	9.2	2.3
6	10.0	10.6	.6
TOTALS	49.8	62.3	12.5
and the second s		Average Gain	2.1
Mean Median Mode Range SD VECTO SE	8.3 8.0 none 6.7-10.2 1.4 .48	10.4 10.2 none 9.2-12.1 .3 .10	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$.88 .774 .316 .25 Significant a .82 .9 .88 Significant a	at the .01 level.	

Subj	ect	:
------	-----	---

Science

Name of Test: Teacher made

Scores reported: Percents
Highest Possible Score: 100%

Teacher:

Form of Test: Pre S Post S
Dates given: Pre 9 - 8 - 69
Post 12-17 - 69

Student	Pre-test	Post-test	Gain or Loss
1	12	44	32
2	12	63	56
3	16	56	40
4	0	80	80
5	20	88	6 8
6	12	48	36
7	16	52	36
TOTALS	88	436	348
		Average Gain	49.7
Mean idedian Mode Range SD V	12.5 12 none 0-20 5.8 5.09	62.3 56 none 44-88 15.5 13.6	
So VE NOT SE MO	 23 .77 5.8 (Significant 15.5 345.9 130.72 7.15 (Significant 6 	at .05 level) at .01 level)	



Subject: Name of Test: Scores Reported: Highest Possible	Home Economics Teacher made raw Score: 103	Teacher: Form of Te s Dates given	S t: Pre S Post S : Pre 9 - 8 - 69 Post 12-17 - 69
Student	Pre-test	Post-test	Gain or Loss
1	70	88	18
2	65	83	18
3	60	79	. 19
Appendicularities (N 100040 /1) will not a N 100 oversom vie	88	92	4
TOTALS	283	342	59
		Average Gain	14.8
Mean Median Mode Range SD V	71 67.5 none 60-88 10.0	86 85.5 none 79-92 5.0 0	•
SO VENT SE MO t	3.715 51.59 25.79	gnificant at the .05 leve ant at both the .05 and .0	

The difference between - and t significance is probably due to class size.

CLASSES NOT USING PRE-POST TESTS

Bookkeeping	1 section
Home Economics	1 11
Metal Shop	1 11
Shorthand	1 "
Typing	4 Sections
Welding	1 section
Woods and Crafts	1 11

JRG:rp



SUMMARY:

- The majority of adult teachers in this program do not recognize a need for inservice training. Those who do, mention the following areas where in-service training is most needed: for new teachers, courses of study in English, and new trends and innovations in adult education.
- Most helpful activities varied with the subject matter, but mentioned in all but a few subjects were: audio-visual aids, blackboard work by teachers, classroom illustrations by teacher & classroom discussions. The effectiveness of homework, workbooks, experiments, etc. varied considerably with the subject.
- Least helpful activities varied considerably with the subject being taught with lectures, homework, and workbooks being frequently mentioned.
- Problems encountered also varied, the most serious being excessive dropouts. About forty adults "dropped", and of these, about twenty were forced to drop because of work or illness. The reasons the other twenty dropped is not known as we were unable to contact them. Attendance was a problem for a few teachers.
- Ways to improve the class varied with each teacher and subject. teachers did not respond or checked "none" to this question.
- Additional comments are self explanatory and again most frequently mentioned was "none" or "no response".
- Pre-post test results are perhaps the most significant part of this evaluation. They do indicate that adults are learning. The level of confidence found by tascores or correlations, is high. Perhaps, if anything, the actual learning taking place is higher than the tests would indicate, since many of the standardized tests are not designed for the subject matter being taught and none of the tests have been designed or standardized for adults. This is perhaps one of the greatest needs we have for adult testing.

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on Adult Education

