

Appendix-13
CALCULATIONS OF STEP WISE REGRESSION
FOR GOVERNMENT SCHOOL GRADE ONE

Stepwise Regression Y₁ Result 11 X variables

F to Enter	4
F to Remove	4
Number of Steps	2
Variables Entered	2
Variables Forced	0

Residual Information Table

SS[e(1)-e(1-1)]	e ≥ 0	e < 0	DW test
13824.16	17	17	1.39

Residual Column 82 Std Residual Column 83 Fitted Column 84 Predicted Column 85

Note: 16 cases deleted with missing values

Stepwise Regression Y₁ Result 11 X variables

STEP NO 1 VARIABLE ENTERED X₃ MEd

R	R-squared	Adj R-squared	RMS Residual
6	36	34	20.02

Analysis of Variance Table

Source	DF	Sum Squares	Mean Square	F-test
REGRESSION	1	6731.01	6731.01	16.8
RESIDUAL	30	12020.99	400.7	
TOTAL	31	18752		

STEP NO 1 Stepwise Regression Y₁ Result 11 X variables

Variables in Equation

Variable	Coefficient	Std. Err.	Std. Coeff.	F to Remove
INTERCEPT	36.61			
MEd	6.33	1.54	.6	16.8

Variables Not in Equation

Variable	Par. Corr.	F to Enter
FEd	.13	47
FOc	.07	13
FSI	-.01	7.85f .4
Home	.15	69
Creativity	.42	6.08

Step wise regression Govt class 1

STEP NO 1 Stepwise Regression Y ₁ Result 11 X variables		
Variables Not in Equation		
Source	Par	Corr
M SI	- 15	69
M Oc	- 15	69
Tutor	- .08	17
Nutrition	23	166
Motivation	24	170

Stepwise Regression Y ₁ Result 11 X variables			
(Last Step) STEP NO 2 VARIABLE ENTERED X ₆ Creativity			
R	R-squared	Adj R-squared	RMS Residual
69	47	43	18.51

Analysis of Variance Table				
Source	DF	Sum Squares	Mean Square	F-test
REGRESSION	2	8814.69	4407.34	12.86
RESIDUAL	29	9937.31	342.67	
TOTAL	31	18752		

STEP NO 2 Stepwise Regression Y ₁ Result 11 X variables				
Variables in Equation				
Variable	Coefficient	Std. Err	Std. Coeff	F to Remove
INTERCEPT	27.03			
M Ed	4.55	1.6	.43	8.08
Creativity	1.42	.57	.37	6.08

Variables Not in Equation		
Variable	Par	Corr
F Ed	14	56
F Oc	1	27
F SI	.07	13
Home	13	51

Step wise regression Govt class-1

STEP NO 2 Stepwise Regression Y₁ Result 11 X variables

Variable	Variables Not in Equation	
	Par	Corr F to Enter
MSI	- 14	59
MOc	- 14	59
Tutor	- 11	32
Nutrition	17	79
Motivation	14	52