

***31 Lec: School academic performance.**

CORR perf size educ lang enrol meal full move year /STAT /MISS = LIST.

	Mean	Std. Deviation	N
perf	595.36	112.242	298
size	18.98	1.348	298
educ	2.4246	.62348	298
lang	37.76	24.114	298
enrol	492.68	240.388	298
meal	72.32	24.166	298
full	81.7517	15.17792	298
move	18.82	7.125	298
year	.30	.460	298

	perf	size	educ	lang	enrol	meal	full	move
size	-.013							
	.823							
educ	.659	-.136						
	.000	.019						
lang	-.691	.063	-.606					
	.000	.281	.000					
enrol	-.440	.087	-.309	.485				
	.000	.132	.000	.000				
meal	-.821	-.012	-.682	.709	.367			
	.000	.842	.000	.000	.000			
full	.502	.112	.207	-.418	-.398	-.440		
	.000	.054	.000	.000	.000	.000		
move	-.137	.100	-.117	-.140	.008	.145	.105	
	.018	.085	.043	.015	.893	.012	.071	
year	-.457	.108	-.372	.473	.650	.378	-.368	-.044
	.000	.064	.000	.000	.000	.000	.000	.447

REGRESS /DEP = perf /ENTER size educ lang enrol meal full move year.

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.863	.745	.738	57.480

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2786865.885	8	348358.236	105.437	.000
	Residual	954840.410	289	3303.946		
	Total	3741706.295	297			

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	631.041	66.184		9.535	.000
	size	1.119	2.576	.013	.434	.664
	educ	29.315	7.859	.163	3.730	.000
	lang	-.679	.232	-.146	-2.921	.004
	enrol	-.015	.019	-.032	-.776	.438
	meal	-2.247	.242	-.484	-9.268	.000
	full	1.212	.267	.164	4.532	.000
	move	-1.409	.520	-.089	-2.711	.007
	year	-16.635	10.012	-.068	-1.661	.098

	Mean	Std. Deviation	N
Predicted Value	595.36	96.868	298
Residual	.000	56.701	298

VARI LABEL prd ' ' res ' ' .
CORR perf WITH prd res.

	prd	res
perf	.863	.505

CORR res WITH prd size educ lang enrol meal full move year.

	prd	size	educ	lang	enrol	meal	full	move	year
res	.000	.000	.000	.000	.000	.000	.000	.000	.000

REGRESS /STAT = DEFAU ZPP CHANGE /DEP = perf
/ENTER size educ lang enrol meal move year /ENTER full.

Model	R	R Square	Change Statistics				Sig. F Change
			R Square Change	F Change	df1	df2	
1	.852	.727	.727	110.143	7	290	.000
2	.863	.745	.018	20.541	1	289	.000

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2718999.839	7	388428.548	110.143	.000
	Residual	1022706.456	290	3526.574		
	Total	3741706.295	297			
2	Regression	2786865.885	8	348358.236	105.437	.000
	Residual	954840.410	289	3303.946		
	Total	3741706.295	297			

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Correlations		
		B	Std. Error	Beta			Zero-order	Partial	Part
1	(Constant)	747.392	63.024		11.859	.000			
	size	2.518	2.642	.030	.953	.341	-.013	.056	.029
	educ	23.132	7.997	.128	2.893	.004	.659	.167	.089
	lang	-.740	.240	-.159	-3.089	.002	-.691	-.178	-.095
	enrol	-.030	.020	-.064	-1.526	.128	-.440	-.089	-.047
	meal	-2.568	.240	-.553	-10....	.000	-.821	-.533	-.329
	move	-1.110	.533	-.070	-2.084	.038	-.137	-.121	-.064
	year	-21.701	10.279	-.089	-2.111	.036	-.457	-.123	-.065
2	(Constant)	631.041	66.184		9.535	.000			
	size	1.119	2.576	.013	.434	.664	-.013	.026	.013
	educ	29.315	7.859	.163	3.730	.000	.659	.214	.111
	lang	-.679	.232	-.146	-2.921	.004	-.691	-.169	-.087
	enrol	-.015	.019	-.032	-.776	.438	-.440	-.046	-.023
	meal	-2.247	.242	-.484	-9.268	.000	-.821	-.479	-.275
	move	-1.409	.520	-.089	-2.711	.007	-.137	-.157	-.081
	year	-16.635	10.012	-.068	-1.661	.098	-.457	-.097	-.049
	full	1.212	.267	.164	4.532	.000	.502	.258	.135

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REGRESS /DEP = full /ENTER size educ lang enrol meal move year
/SAVE RESI(resf.all).
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Model	R	R Square
1	.570	.325

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	22203.202	7	3171.886	19.903	.000
	Residual	46216.422	290	159.367		
	Total	68419.624	297			

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VARI LABEL resf.all ''.
CORR resf.all WITH perf size educ lang enrol meal move year.
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	perf	size	educ	lang	enrol	meal	move	year
resf.all	.135	.000	.000	.000	.000	.000	.000	.000

REGRESS /VARI = perf size educ lang enrol meal full move year
 /DEP = perf /FORWARD.

Model	R	R Square
1	.821	.674
2	.836	.699
3	.845	.714
4	.856	.732
5	.859	.737
6	.863	.744

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	871.175	11.746		74.167	.000
	meal	-3.814	.154	-.821	-24.754	.000
2	(Constant)	862.092	11.457		75.248	.000
	meal	-3.515	.160	-.757	-21.936	.000
	year	-41.573	8.419	-.170	-4.938	.000
3	(Constant)	759.027	28.773		26.380	.000
	meal	-3.287	.167	-.708	-19.674	.000
	year	-33.569	8.478	-.138	-3.959	.000
	full	1.030	.265	.139	3.888	.000
4	(Constant)	609.829	43.287		14.088	.000
	meal	-2.673	.212	-.576	-12.629	.000
	year	-25.587	8.402	-.105	-3.045	.003
	full	1.255	.261	.170	4.800	.000
	educ	34.640	7.689	.192	4.505	.000
5	(Constant)	627.787	43.658		14.380	.000
	meal	-2.449	.231	-.527	-10.597	.000
	year	-20.725	8.599	-.085	-2.410	.017
	full	1.169	.262	.158	4.459	.000
	educ	30.621	7.826	.170	3.912	.000
	lang	-.499	.215	-.107	-2.320	.021
6	(Constant)	645.634	43.623		14.800	.000
	meal	-2.251	.239	-.485	-9.413	.000
	year	-20.295	8.502	-.083	-2.387	.018
	full	1.260	.261	.170	4.824	.000
	educ	28.647	7.768	.159	3.688	.000
	lang	-.710	.225	-.153	-3.148	.002
	move	-1.432	.511	-.091	-2.801	.005

Model		Beta In	t	Sig.
1	size	-.023	-.678	.498
	educ	.185	4.196	.000
	lang	-.218	-4.794	.000
	enrol	-.160	-4.643	.000
	full	.174	4.879	.000
	move	-.018	-.542	.588
	year	-.170	-4.938	.000
2	size	-.004	-.109	.913
	educ	.153	3.526	.000
	lang	-.164	-3.491	.001
	enrol	-.092	-2.164	.031
	full	.139	3.888	.000
	move	-.036	-1.105	.270
3	size	-.023	-.717	.474
	educ	.192	4.505	.000
	lang	-.147	-3.190	.002
	enrol	-.065	-1.538	.125
	move	-.058	-1.824	.069
4	size	-.001	-.041	.967
	lang	-.107	-2.320	.021
	enrol	-.062	-1.505	.133
	move	-.057	-1.828	.069
5	size	.002	.076	.940
	enrol	-.045	-1.090	.277
	move	-.091	-2.801	.005
6	size	.013	.405	.685
	enrol	-.032	-.762	.447

REGRESS /VARI = perf size educ lang enrol meal full move year
 /DEP = perf /BACKWARD.

Model	Variables Entered	Variables Removed	Method
1	year, move, size, educ, full, enrol, lang, meal	.	Enter
2	.	size	Backward (criterion: Probability of F-to-remove >= .100).
3	.	enrol	Backward (criterion: Probability of F-to-remove >= .100).

Model	R	R Square
1	.863	.745
2	.863	.745
3	.863	.744

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2786865.885	8	348358.236	105.437	.000
	Residual	954840.410	289	3303.946		
	Total	3741706.295	297			
2	Regression	2786242.807	7	398034.687	120.811	.000
	Residual	955463.488	290	3294.702		
	Total	3741706.295	297			
3	Regression	2784331.931	6	464055.322	141.053	.000
	Residual	957374.365	291	3289.946		
	Total	3741706.295	297			

Model		Unstandardized Coefficients		Standardized Coefficients		t	Sig.
		B	Std. Error	Beta			
1	(Constant)	631.041	66.184			9.535	.000
	size	1.119	2.576	.013		.434	.664
	educ	29.315	7.859	.163		3.730	.000
	lang	-.679	.232	-.146		-2.921	.004
	enrol	-.015	.019	-.032		-.776	.438
	meal	-2.247	.242	-.484		-9.268	.000
	full	1.212	.267	.164		4.532	.000
	move	-1.409	.520	-.089		-2.711	.007
	year	-16.635	10.012	-.068		-1.661	.098
2	(Constant)	652.283	44.520			14.652	.000
	educ	28.862	7.779	.160		3.710	.000
	lang	-.671	.231	-.144		-2.900	.004
	enrol	-.015	.019	-.032		-.762	.447
	meal	-2.261	.240	-.487		-9.434	.000
	full	1.226	.265	.166		4.624	.000
	move	-1.384	.516	-.088		-2.683	.008
	year	-16.331	9.974	-.067		-1.637	.103
3	(Constant)	645.634	43.623			14.800	.000
	educ	28.647	7.768	.159		3.688	.000
	lang	-.710	.225	-.153		-3.148	.002
	meal	-2.251	.239	-.485		-9.413	.000
	full	1.260	.261	.170		4.824	.000
	move	-1.432	.511	-.091		-2.801	.005
	year	-20.295	8.502	-.083		-2.387	.018

Model		Beta In	t	Sig.
2	size	.013	.434	.664
3	size	.013	.405	.685
	enrol	-.032	-.762	.447