

The MEANS Procedure

Variable	Mean	Std Dev
SES	0.000143354	0.7793552
MATHACH	12.7478526	6.8782457

The FREQ Procedure

SCHOOL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1224	47	0.65	47	0.65
1288	25	0.35	72	1.00
1296	48	0.67	120	1.67
1308	20	0.28	140	1.95
1317	48	0.67	188	2.62
1358	30	0.42	218	3.03
1374	28	0.39	246	3.42
1433	35	0.49	281	3.91
1436	44	0.61	325	4.52
1461	33	0.46	358	4.98
1462	57	0.79	415	5.78
1477	62	0.86	477	6.64
1499	53	0.74	530	7.38
1637	27	0.38	557	7.75
1906	53	0.74	610	8.49
1909	28	0.39	638	8.88
1942	29	0.40	667	9.28
1946	39	0.54	706	9.83
2030	47	0.65	753	10.48
2208	60	0.84	813	11.32
2277	61	0.85	874	12.16
2305	67	0.93	941	13.10
2336	47	0.65	988	13.75
2458	57	0.79	1045	14.54
2467	52	0.72	1097	15.27
2526	57	0.79	1154	16.06
2626	38	0.53	1192	16.59
2629	57	0.79	1249	17.38
2639	42	0.58	1291	17.97
2651	38	0.53	1329	18.50
2655	52	0.72	1381	19.22
2658	45	0.63	1426	19.85
2755	47	0.65	1473	20.50
2768	25	0.35	1498	20.85
2771	55	0.77	1553	21.61
2818	42	0.58	1595	22.20
2917	43	0.60	1638	22.80

The FREQ Procedure

SCHOOL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
2990	48	0.67	1686	23.47
2995	46	0.64	1732	24.11
3013	53	0.74	1785	24.84
3020	59	0.82	1844	25.66
3039	21	0.29	1865	25.96
3088	39	0.54	1904	26.50
3152	52	0.72	1956	27.22
3332	38	0.53	1994	27.75
3351	39	0.54	2033	28.30
3377	45	0.63	2078	28.92
3427	49	0.68	2127	29.60
3498	53	0.74	2180	30.34
3499	38	0.53	2218	30.87
3533	48	0.67	2266	31.54
3610	64	0.89	2330	32.43
3657	51	0.71	2381	33.14
3688	43	0.60	2424	33.74
3705	45	0.63	2469	34.36
3716	41	0.57	2510	34.93
3838	54	0.75	2564	35.69
3881	41	0.57	2605	36.26
3967	52	0.72	2657	36.98
3992	53	0.74	2710	37.72
3999	46	0.64	2756	38.36
4042	64	0.89	2820	39.25
4173	44	0.61	2864	39.86
4223	45	0.63	2909	40.49
4253	58	0.81	2967	41.29
4292	65	0.90	3032	42.20
4325	53	0.74	3085	42.94
4350	33	0.46	3118	43.40
4383	25	0.35	3143	43.74
4410	41	0.57	3184	44.31
4420	32	0.45	3216	44.76
4458	48	0.67	3264	45.43
4511	58	0.81	3322	46.24
4523	47	0.65	3369	46.89

The FREQ Procedure

SCHOOL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
4530	63	0.88	3432	47.77
4642	61	0.85	3493	48.62
4868	34	0.47	3527	49.09
4931	58	0.81	3585	49.90
5192	28	0.39	3613	50.29
5404	57	0.79	3670	51.08
5619	66	0.92	3736	52.00
5640	57	0.79	3793	52.79
5650	45	0.63	3838	53.42
5667	61	0.85	3899	54.27
5720	53	0.74	3952	55.00
5761	52	0.72	4004	55.73
5762	37	0.51	4041	56.24
5783	29	0.40	4070	56.65
5815	25	0.35	4095	56.99
5819	50	0.70	4145	57.69
5838	31	0.43	4176	58.12
5937	29	0.40	4205	58.52
6074	56	0.78	4261	59.30
6089	33	0.46	4294	59.76
6144	43	0.60	4337	60.36
6170	21	0.29	4358	60.65
6291	35	0.49	4393	61.14
6366	58	0.81	4451	61.95
6397	60	0.84	4511	62.78
6415	54	0.75	4565	63.54
6443	30	0.42	4595	63.95
6464	29	0.40	4624	64.36
6469	57	0.79	4681	65.15
6484	35	0.49	4716	65.64
6578	56	0.78	4772	66.42
6600	56	0.78	4828	67.20
6808	44	0.61	4872	67.81
6816	55	0.77	4927	68.57
6897	49	0.68	4976	69.26
6990	53	0.74	5029	69.99
7011	33	0.46	5062	70.45

The FREQ Procedure

SCHOOL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
7101	28	0.39	5090	70.84
7172	44	0.61	5134	71.45
7232	52	0.72	5186	72.18
7276	53	0.74	5239	72.92
7332	48	0.67	5287	73.58
7341	51	0.71	5338	74.29
7342	58	0.81	5396	75.10
7345	56	0.78	5452	75.88
7364	44	0.61	5496	76.49
7635	51	0.71	5547	77.20
7688	54	0.75	5601	77.95
7697	32	0.45	5633	78.40
7734	22	0.31	5655	78.71
7890	51	0.71	5706	79.42
7919	37	0.51	5743	79.93
8009	47	0.65	5790	80.58
8150	44	0.61	5834	81.20
8165	49	0.68	5883	81.88
8175	33	0.46	5916	82.34
8188	30	0.42	5946	82.76
8193	43	0.60	5989	83.35
8202	35	0.49	6024	83.84
8357	27	0.38	6051	84.22
8367	14	0.19	6065	84.41
8477	37	0.51	6102	84.93
8531	41	0.57	6143	85.50
8627	53	0.74	6196	86.24
8628	61	0.85	6257	87.08
8707	48	0.67	6305	87.75
8775	48	0.67	6353	88.42
8800	32	0.45	6385	88.87
8854	32	0.45	6417	89.31
8857	64	0.89	6481	90.20
8874	36	0.50	6517	90.70
8946	58	0.81	6575	91.51
8983	51	0.71	6626	92.22
9021	56	0.78	6682	93.00

The FREQ Procedure

SCHOOL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
9104	55	0.77	6737	93.76
9158	53	0.74	6790	94.50
9198	31	0.43	6821	94.93
9225	36	0.50	6857	95.43
9292	19	0.26	6876	95.70
9340	29	0.40	6905	96.10
9347	57	0.79	6962	96.90
9359	53	0.74	7015	97.63
9397	47	0.65	7062	98.29
9508	35	0.49	7097	98.78
9550	29	0.40	7126	99.18
9586	59	0.82	7185	100.00

The MEANS Procedure

Variable	Mean	Std Dev
MEANSES	-0.000187500	0.4139731
SECTOR	0.4375000	0.4976359

Modello 1: Modello a intercetta casuale

The Mixed Procedure

Model Information	
Data Set	IN.HSB12
Dependent Variable	MATHACH
Covariance Structure	Variance Components
Subject Effect	SCHOOL
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Containment

Dimensions	
Covariance Parameters	2
Columns in X	1
Columns in Z per Subject	1
Subjects	160
Max Obs per Subject	67

Number of Observations	
Number of Observations Read	7185
Number of Observations Used	7185
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	48102.91726234	
1	2	47116.81230623	0.00000109
2	1	47116.79350024	0.00000000

Convergence criteria met.

Covariance Parameter Estimates					
Cov Parm	Subject	Estimate	Standard Error	Z Value	Pr > Z
Intercept	SCHOOL	8.6097	1.0778	7.99	<.0001
Residual		39.1487	0.6607	59.26	<.0001

Modello 1: Modello a intercetta casuale

The Mixed Procedure

Fit Statistics	
-2 Res Log Likelihood	47116.8
AIC (Smaller is Better)	47120.8
AICC (Smaller is Better)	47120.8
BIC (Smaller is Better)	47126.9

Solution for Fixed Effects					
Effect	Estimate	Standard Error	DF	t Value	Pr > t
Intercept	12.6370	0.2443	159	51.72	<.0001

Modello 1: Modello a intercetta casuale

The Mixed Procedure

Solution for Random Effects						
Effect	SCHOOL	Estimate	Std Err Pred	DF	t Value	Pr > t
Intercept	1224	-2.6638	0.8995	7025	-2.96	0.0031
Intercept	1288	0.7393	1.1695	7025	0.63	0.5273
Intercept	1296	-4.5683	0.8915	7025	-5.12	<.0001
Intercept	1308	2.9482	1.2785	7025	2.31	0.0211
Intercept	1317	0.4939	0.8915	7025	0.55	0.5796
Intercept	1358	-1.2424	1.0855	7025	-1.14	0.2524
Intercept	1374	-2.5022	1.1167	7025	-2.24	0.0251
Intercept	1433	6.2679	1.0182	7025	6.16	<.0001
Intercept	1436	4.9619	0.9249	7025	5.36	<.0001
Intercept	1461	3.6963	1.0434	7025	3.54	0.0004
Intercept	1462	-1.9832	0.8290	7025	-2.39	0.0168
Intercept	1477	1.4827	0.8001	7025	1.85	0.0639
Intercept	1499	-4.5834	0.8549	7025	-5.36	<.0001
Intercept	1637	-4.8039	1.1334	7025	-4.24	<.0001
Intercept	1906	3.0818	0.8549	7025	3.60	0.0003
Intercept	1909	1.5368	1.1167	7025	1.38	0.1688
Intercept	1942	4.7320	1.1007	7025	4.30	<.0001
Intercept	1946	0.2431	0.9731	7025	0.25	0.8027
Intercept	2030	-0.5095	0.8995	7025	-0.57	0.5711
Intercept	2208	2.5727	0.8112	7025	3.17	0.0015
Intercept	2277	-3.1077	0.8056	7025	-3.86	0.0001
Intercept	2305	-1.4039	0.7743	7025	-1.81	0.0698
Intercept	2336	3.5384	0.8995	7025	3.93	<.0001
Intercept	2458	1.2491	0.8290	7025	1.51	0.1319
Intercept	2467	-2.2893	0.8619	7025	-2.66	0.0079
Intercept	2526	4.0898	0.8290	7025	4.93	<.0001
Intercept	2626	0.6784	0.9837	7025	0.69	0.4904
Intercept	2629	2.1030	0.8290	7025	2.54	0.0112
Intercept	2639	-5.4333	0.9432	7025	-5.76	<.0001
Intercept	2651	-1.3867	0.9837	7025	-1.41	0.1587
Intercept	2655	-0.2683	0.8619	7025	-0.31	0.7555
Intercept	2658	0.6895	0.9162	7025	0.75	0.4517
Intercept	2755	3.5008	0.8995	7025	3.89	0.0001
Intercept	2768	-1.4807	1.1695	7025	-1.27	0.2055
Intercept	2771	-0.7323	0.8416	7025	-0.87	0.3843

Modello 1: Modello a intercetta casuale

The Mixed Procedure

Solution for Random Effects						
Effect	SCHOOL	Estimate	Std Err Pred	DF	t Value	Pr > t
Intercept	2818	1.1151	0.9432	7025	1.18	0.2371
Intercept	2917	-4.2126	0.9339	7025	-4.51	<.0001
Intercept	2990	5.3081	0.8915	7025	5.95	<.0001
Intercept	2995	-2.8128	0.9077	7025	-3.10	0.0020
Intercept	3013	-0.02408	0.8549	7025	-0.03	0.9775
Intercept	3020	1.6325	0.8170	7025	2.00	0.0457
Intercept	3039	3.5567	1.2541	7025	2.84	0.0046
Intercept	3088	-3.1266	0.9731	7025	-3.21	0.0013
Intercept	3152	0.5261	0.8619	7025	0.61	0.5416
Intercept	3332	1.4658	0.9837	7025	1.49	0.1363
Intercept	3351	-1.0494	0.9731	7025	-1.08	0.2809
Intercept	3377	-3.1336	0.9162	7025	-3.42	0.0006
Intercept	3427	6.4775	0.8838	7025	7.33	<.0001
Intercept	3498	3.4569	0.8549	7025	4.04	<.0001
Intercept	3499	0.5712	0.9837	7025	0.58	0.5615
Intercept	3533	-2.0351	0.8915	7025	-2.28	0.0225
Intercept	3610	2.5377	0.7894	7025	3.21	0.0013
Intercept	3657	-2.8607	0.8690	7025	-3.29	0.0010
Intercept	3688	1.8262	0.9339	7025	1.96	0.0506
Intercept	3705	-2.0937	0.9162	7025	-2.29	0.0223
Intercept	3716	-2.0419	0.9528	7025	-2.14	0.0322
Intercept	3838	3.1598	0.8482	7025	3.73	0.0002
Intercept	3881	-0.6191	0.9528	7025	-0.65	0.5159
Intercept	3967	-0.5535	0.8619	7025	-0.64	0.5208
Intercept	3992	1.8495	0.8549	7025	2.16	0.0305
Intercept	3999	-1.5406	0.9077	7025	-1.70	0.0897
Intercept	4042	1.5671	0.7894	7025	1.99	0.0472
Intercept	4173	0.07947	0.9249	7025	0.09	0.9315
Intercept	4223	1.8034	0.9162	7025	1.97	0.0491
Intercept	4253	-2.9897	0.8229	7025	-3.63	0.0003
Intercept	4292	0.2125	0.7843	7025	0.27	0.7864
Intercept	4325	0.5554	0.8549	7025	0.65	0.5160
Intercept	4350	-0.6869	1.0434	7025	-0.66	0.5104
Intercept	4383	-0.9910	1.1695	7025	-0.85	0.3968
Intercept	4410	0.7525	0.9528	7025	0.79	0.4297

Modello 1: Modello a intercetta casuale

The Mixed Procedure

Solution for Random Effects						
Effect	SCHOOL	Estimate	Std Err Pred	DF	t Value	Pr > t
Intercept	4420	1.0832	1.0569	7025	1.02	0.3054
Intercept	4458	-6.2349	0.8915	7025	-6.99	<.0001
Intercept	4511	0.7159	0.8229	7025	0.87	0.3844
Intercept	4523	-3.9072	0.8995	7025	-4.34	<.0001
Intercept	4530	-3.3402	0.7947	7025	-4.20	<.0001
Intercept	4642	1.8259	0.8056	7025	2.27	0.0234
Intercept	4868	-0.2883	1.0306	7025	-0.28	0.7797
Intercept	4931	1.0699	0.8229	7025	1.30	0.1936
Intercept	5192	-1.9163	1.1167	7025	-1.72	0.0862
Intercept	5404	2.5728	0.8290	7025	3.10	0.0019
Intercept	5619	2.6001	0.7792	7025	3.34	0.0009
Intercept	5640	0.4845	0.8290	7025	0.58	0.5590
Intercept	5650	1.4864	0.9162	7025	1.62	0.1048
Intercept	5667	1.0621	0.8056	7025	1.32	0.1874
Intercept	5720	1.5153	0.8549	7025	1.77	0.0764
Intercept	5761	-1.3784	0.8619	7025	-1.60	0.1098
Intercept	5762	-7.4024	0.9948	7025	-7.44	<.0001
Intercept	5783	0.4438	1.1007	7025	0.40	0.6868
Intercept	5815	-4.5399	1.1695	7025	-3.88	0.0001
Intercept	5819	-0.4566	0.8763	7025	-0.52	0.6024
Intercept	5838	0.9180	1.0709	7025	0.86	0.3913
Intercept	5937	3.5780	1.1007	7025	3.25	0.0012
Intercept	6074	1.0563	0.8353	7025	1.26	0.2060
Intercept	6089	2.5774	1.0434	7025	2.47	0.0135
Intercept	6144	-3.7006	0.9339	7025	-3.96	<.0001
Intercept	6170	1.2692	1.2541	7025	1.01	0.3115
Intercept	6291	-2.2388	1.0182	7025	-2.20	0.0279
Intercept	6366	2.7999	0.8229	7025	3.40	0.0007
Intercept	6397	0.1479	0.8112	7025	0.18	0.8553
Intercept	6415	-0.7164	0.8482	7025	-0.84	0.3983
Intercept	6443	-2.7453	1.0855	7025	-2.53	0.0115
Intercept	6464	-4.7937	1.1007	7025	-4.36	<.0001
Intercept	6469	5.3889	0.8290	7025	6.50	<.0001
Intercept	6484	0.2438	1.0182	7025	0.24	0.8108
Intercept	6578	-0.5947	0.8353	7025	-0.71	0.4765

Modello 1: Modello a intercetta casuale

The Mixed Procedure

Solution for Random Effects						
Effect	SCHOOL	Estimate	Std Err Pred	DF	t Value	Pr > t
Intercept	6600	-0.8630	0.8353	7025	-1.03	0.3015
Intercept	6808	-3.0370	0.9249	7025	-3.28	0.0010
Intercept	6816	1.7561	0.8416	7025	2.09	0.0370
Intercept	6897	2.2517	0.8838	7025	2.55	0.0109
Intercept	6990	-6.1339	0.8549	7025	-7.17	<.0001
Intercept	7011	1.0341	1.0434	7025	0.99	0.3217
Intercept	7101	-0.6771	1.1167	7025	-0.61	0.5443
Intercept	7172	-4.1421	0.9249	7025	-4.48	<.0001
Intercept	7232	-0.08676	0.8619	7025	-0.10	0.9198
Intercept	7276	0.03906	0.8549	7025	0.05	0.9636
Intercept	7332	1.8261	0.8915	7025	2.05	0.0406
Intercept	7341	-2.6101	0.8690	7025	-3.00	0.0027
Intercept	7342	-1.3637	0.8229	7025	-1.66	0.0976
Intercept	7345	-1.2009	0.8353	7025	-1.44	0.1505
Intercept	7364	1.3914	0.9249	7025	1.50	0.1325
Intercept	7635	2.2297	0.8690	7025	2.57	0.0103
Intercept	7688	5.3360	0.8482	7025	6.29	<.0001
Intercept	7697	2.7010	1.0569	7025	2.56	0.0106
Intercept	7734	-1.7215	1.2311	7025	-1.40	0.1621
Intercept	7890	-3.9442	0.8690	7025	-4.54	<.0001
Intercept	7919	1.9708	0.9948	7025	1.98	0.0476
Intercept	8009	1.3200	0.8995	7025	1.47	0.1423
Intercept	8150	2.0079	0.9249	7025	2.17	0.0300
Intercept	8165	3.4903	0.8838	7025	3.95	<.0001
Intercept	8175	-0.8252	1.0434	7025	-0.79	0.4291
Intercept	8188	0.09030	1.0855	7025	0.08	0.9337
Intercept	8193	3.2514	0.9339	7025	3.48	0.0005
Intercept	8202	-0.8182	1.0182	7025	-0.80	0.4216
Intercept	8357	1.4934	1.1334	7025	1.32	0.1877
Intercept	8367	-6.1022	1.4645	7025	-4.17	<.0001
Intercept	8477	-0.1022	0.9948	7025	-0.10	0.9182
Intercept	8531	0.8027	0.9528	7025	0.84	0.3996
Intercept	8627	-1.6147	0.8549	7025	-1.89	0.0590
Intercept	8628	3.6214	0.8056	7025	4.50	<.0001
Intercept	8707	0.2256	0.8915	7025	0.25	0.8003

Modello 1: Modello a intercetta casuale

The Mixed Procedure

Solution for Random Effects						
Effect	SCHOOL	Estimate	Std Err Pred	DF	t Value	Pr > t
Intercept	8775	-2.8957	0.8915	7025	-3.25	0.0012
Intercept	8800	-4.6415	1.0569	7025	-4.39	<.0001
Intercept	8854	-7.3524	1.0569	7025	-6.96	<.0001
Intercept	8857	2.4835	0.7894	7025	3.15	0.0017
Intercept	8874	-0.5167	1.0063	7025	-0.51	0.6076
Intercept	8946	-2.0975	0.8229	7025	-2.55	0.0108
Intercept	8983	-1.5103	0.8690	7025	-1.74	0.0822
Intercept	9021	1.9050	0.8353	7025	2.28	0.0226
Intercept	9104	3.8748	0.8416	7025	4.60	<.0001
Intercept	9158	-3.7685	0.8549	7025	-4.41	<.0001
Intercept	9198	5.6296	1.0709	7025	5.26	<.0001
Intercept	9225	1.8027	1.0063	7025	1.79	0.0733
Intercept	9292	-1.9021	1.3044	7025	-1.46	0.1448
Intercept	9340	-1.2607	1.1007	7025	-1.15	0.2521
Intercept	9347	0.8352	0.8290	7025	1.01	0.3138
Intercept	9359	2.4255	0.8549	7025	2.84	0.0046
Intercept	9397	-2.0803	0.8995	7025	-2.31	0.0208
Intercept	9508	0.8299	1.0182	7025	0.82	0.4151
Intercept	9550	-1.3380	1.1007	7025	-1.22	0.2242
Intercept	9586	2.0674	0.8170	7025	2.53	0.0114

Modello 2: Modello a intercetta casuale con effetto fisso per la variabile ses
ses e' lo status socio-economico

The Mixed Procedure

Model Information	
Data Set	IN.HSB12
Dependent Variable	MATHACH
Covariance Structure	Variance Components
Subject Effect	SCHOOL
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Containment

Dimensions	
Covariance Parameters	2
Columns in X	2
Columns in Z per Subject	1
Subjects	160
Max Obs per Subject	67

Number of Observations	
Number of Observations Read	7185
Number of Observations Used	7185
Number of Observations Not Used	0

Covariance Parameter Estimates					
Cov Parm	Subject	Estimate	Standard Error	Z Value	Pr > Z
Intercept	SCHOOL	4.7665	0.6549	7.28	<.0001
Residual		37.0346	0.6254	59.22	<.0001

Fit Statistics	
-2 Res Log Likelihood	46645.2
AIC (Smaller is Better)	46649.2
AICC (Smaller is Better)	46649.2
BIC (Smaller is Better)	46655.3

Modello 2: Modello a intercetta casuale con effetto fisso per la variabile ses
ses e' lo status socio-economico

The Mixed Procedure

Solution for Fixed Effects					
Effect	Estimate	Standard Error	DF	t Value	Pr > t
Intercept	12.6575	0.1880	159	67.34	<.0001
SES	2.3903	0.1057	7024	22.61	<.0001

Modello 2: Modello a intercetta casuale con effetto fisso per la variabile ses
ses e' lo status socio-economico

The Mixed Procedure

Solution for Random Effects						
Effect	SCHOOL	Estimate	Std Err Pred	DF	t Value	Pr > t
Intercept	1224	-1.6337	0.8389	7024	-1.95	0.0515
Intercept	1288	0.4293	1.0728	7024	0.40	0.6891
Intercept	1296	-3.4466	0.8317	7024	-4.14	<.0001
Intercept	1308	1.6824	1.1634	7024	1.45	0.1482
Intercept	1317	-0.2627	0.8314	7024	-0.32	0.7520
Intercept	1358	-1.1154	1.0014	7024	-1.11	0.2654
Intercept	1374	-2.2691	1.0281	7024	-2.21	0.0273
Intercept	1433	4.3861	0.9452	7024	4.64	<.0001
Intercept	1436	3.4920	0.8623	7024	4.05	<.0001
Intercept	1461	2.0769	0.9669	7024	2.15	0.0318
Intercept	1462	-0.4945	0.7765	7024	-0.64	0.5243
Intercept	1477	1.0571	0.7476	7024	1.41	0.1574
Intercept	1499	-3.3869	0.7988	7024	-4.24	<.0001
Intercept	1637	-3.0652	1.0439	7024	-2.94	0.0033
Intercept	1906	1.8339	0.7991	7024	2.29	0.0218
Intercept	1909	0.9181	1.0283	7024	0.89	0.3720
Intercept	1942	3.0154	1.0161	7024	2.97	0.0030
Intercept	1946	0.2012	0.9036	7024	0.22	0.8238
Intercept	2030	-1.1707	0.8385	7024	-1.40	0.1627
Intercept	2208	1.5367	0.7588	7024	2.03	0.0429
Intercept	2277	-1.3648	0.7559	7024	-1.81	0.0710
Intercept	2305	-0.01671	0.7261	7024	-0.02	0.9816
Intercept	2336	2.4069	0.8390	7024	2.87	0.0041
Intercept	2458	0.6897	0.7744	7024	0.89	0.3731
Intercept	2467	-1.4980	0.8045	7024	-1.86	0.0626
Intercept	2526	3.1806	0.7747	7024	4.11	<.0001
Intercept	2626	0.7423	0.9130	7024	0.81	0.4162
Intercept	2629	2.2699	0.7741	7024	2.93	0.0034
Intercept	2639	-3.1534	0.8813	7024	-3.58	0.0003
Intercept	2651	-1.4312	0.9130	7024	-1.57	0.1170
Intercept	2655	1.1874	0.8065	7024	1.47	0.1410
Intercept	2658	-0.2638	0.8539	7024	-0.31	0.7574
Intercept	2755	2.1367	0.8395	7024	2.55	0.0109
Intercept	2768	-1.2530	1.0727	7024	-1.17	0.2428

Modello 2: Modello a intercetta casuale con effetto fisso per la variabile ses
ses e' lo status socio-economico

The Mixed Procedure

Solution for Random Effects						
Effect	SCHOOL	Estimate	Std Err Pred	DF	t Value	Pr > t
Intercept	2771	-0.00175	0.7862	7024	-0.00	0.9982
Intercept	2818	0.8064	0.8771	7024	0.92	0.3579
Intercept	2917	-2.3466	0.8717	7024	-2.69	0.0071
Intercept	2990	3.6368	0.8330	7024	4.37	<.0001
Intercept	2995	-2.0449	0.8458	7024	-2.42	0.0156
Intercept	3013	0.05151	0.7977	7024	0.06	0.9485
Intercept	3020	1.0495	0.7634	7024	1.37	0.1692
Intercept	3039	2.5367	1.1432	7024	2.22	0.0265
Intercept	3088	-1.9863	0.9045	7024	-2.20	0.0281
Intercept	3152	0.4153	0.8040	7024	0.52	0.6055
Intercept	3332	0.1321	0.9146	7024	0.14	0.8852
Intercept	3351	-1.6442	0.9040	7024	-1.82	0.0690
Intercept	3377	-1.7667	0.8545	7024	-2.07	0.0387
Intercept	3427	5.7764	0.8239	7024	7.01	<.0001
Intercept	3498	1.8808	0.8000	7024	2.35	0.0188
Intercept	3499	-0.3789	0.9138	7024	-0.41	0.6785
Intercept	3533	-1.6586	0.8309	7024	-2.00	0.0460
Intercept	3610	2.1494	0.7377	7024	2.91	0.0036
Intercept	3657	-1.3751	0.8126	7024	-1.69	0.0906
Intercept	3688	0.8729	0.8696	7024	1.00	0.3155
Intercept	3705	-2.4617	0.8532	7024	-2.89	0.0039
Intercept	3716	-1.0788	0.8864	7024	-1.22	0.2236
Intercept	3838	2.6733	0.7917	7024	3.38	0.0007
Intercept	3881	-0.8519	0.8857	7024	-0.96	0.3362
Intercept	3967	-0.07337	0.8042	7024	-0.09	0.9273
Intercept	3992	0.9719	0.7984	7024	1.22	0.2236
Intercept	3999	-1.2797	0.8454	7024	-1.51	0.1301
Intercept	4042	0.6216	0.7386	7024	0.84	0.4001
Intercept	4173	-0.00792	0.8608	7024	-0.01	0.9927
Intercept	4223	1.8674	0.8530	7024	2.19	0.0286
Intercept	4253	-2.0736	0.7693	7024	-2.70	0.0070
Intercept	4292	1.2227	0.7343	7024	1.67	0.0959
Intercept	4325	0.6105	0.7977	7024	0.77	0.4441
Intercept	4350	-0.9445	0.9653	7024	-0.98	0.3279

Modello 2: Modello a intercetta casuale con effetto fisso per la variabile ses
ses e' lo status socio-economico

The Mixed Procedure

Solution for Random Effects						
Effect	SCHOOL	Estimate	Std Err Pred	DF	t Value	Pr > t
Intercept	4383	-1.0427	1.0727	7024	-0.97	0.3311
Intercept	4410	0.4919	0.8857	7024	0.56	0.5787
Intercept	4420	1.4103	0.9770	7024	1.44	0.1489
Intercept	4458	-3.7333	0.8362	7024	-4.46	<.0001
Intercept	4511	0.8886	0.7685	7024	1.16	0.2476
Intercept	4523	-3.5847	0.8380	7024	-4.28	<.0001
Intercept	4530	-1.9363	0.7446	7024	-2.60	0.0093
Intercept	4642	1.4774	0.7526	7024	1.96	0.0497
Intercept	4868	-0.9853	0.9545	7024	-1.03	0.3020
Intercept	4931	0.2306	0.7693	7024	0.30	0.7644
Intercept	5192	-1.6405	1.0281	7024	-1.60	0.1106
Intercept	5404	0.6913	0.7779	7024	0.89	0.3742
Intercept	5619	1.5693	0.7293	7024	2.15	0.0315
Intercept	5640	0.8138	0.7742	7024	1.05	0.2932
Intercept	5650	1.3324	0.8529	7024	1.56	0.1183
Intercept	5667	0.1057	0.7536	7024	0.14	0.8885
Intercept	5720	1.3492	0.7977	7024	1.69	0.0908
Intercept	5761	-0.6502	0.8045	7024	-0.81	0.4190
Intercept	5762	-4.5280	0.9285	7024	-4.88	<.0001
Intercept	5783	0.06251	1.0146	7024	0.06	0.9509
Intercept	5815	-2.8691	1.0741	7024	-2.67	0.0076
Intercept	5819	-0.8245	0.8172	7024	-1.01	0.3130
Intercept	5838	0.5261	0.9889	7024	0.53	0.5947
Intercept	5937	2.0210	1.0160	7024	1.99	0.0467
Intercept	6074	1.5659	0.7802	7024	2.01	0.0448
Intercept	6089	2.1908	0.9652	7024	2.27	0.0232
Intercept	6144	-2.5973	0.8697	7024	-2.99	0.0028
Intercept	6170	1.6387	1.1431	7024	1.43	0.1517
Intercept	6291	-1.0664	0.9442	7024	-1.13	0.2588
Intercept	6366	1.9917	0.7690	7024	2.59	0.0096
Intercept	6397	0.5809	0.7580	7024	0.77	0.4435
Intercept	6415	-0.3057	0.7917	7024	-0.39	0.6994
Intercept	6443	-1.8572	1.0018	7024	-1.85	0.0638
Intercept	6464	-3.1149	1.0160	7024	-3.07	0.0022

Modello 2: Modello a intercetta casuale con effetto fisso per la variabile ses
ses e' lo status socio-economico

The Mixed Procedure

Solution for Random Effects						
Effect	SCHOOL	Estimate	Std Err Pred	DF	t Value	Pr > t
Intercept	6469	3.5197	0.7772	7024	4.53	<.0001
Intercept	6484	0.5707	0.9433	7024	0.61	0.5452
Intercept	6578	0.5016	0.7812	7024	0.64	0.5208
Intercept	6600	-0.7250	0.7798	7024	-0.93	0.3525
Intercept	6808	-2.6700	0.8608	7024	-3.10	0.0019
Intercept	6816	0.5402	0.7871	7024	0.69	0.4925
Intercept	6897	1.3850	0.8245	7024	1.68	0.0930
Intercept	6990	-4.8057	0.7989	7024	-6.02	<.0001
Intercept	7011	0.9964	0.9652	7024	1.03	0.3019
Intercept	7101	-0.6452	1.0281	7024	-0.63	0.5303
Intercept	7172	-3.3129	0.8611	7024	-3.85	0.0001
Intercept	7232	0.08748	0.8040	7024	0.11	0.9134
Intercept	7276	-0.1440	0.7977	7024	-0.18	0.8568
Intercept	7332	1.0920	0.8313	7024	1.31	0.1890
Intercept	7341	-2.1444	0.8105	7024	-2.65	0.0082
Intercept	7342	-0.3710	0.7696	7024	-0.48	0.6298
Intercept	7345	-1.2280	0.7798	7024	-1.57	0.1153
Intercept	7364	1.4689	0.8608	7024	1.71	0.0880
Intercept	7635	1.5857	0.8107	7024	1.96	0.0505
Intercept	7688	4.6513	0.7918	7024	5.87	<.0001
Intercept	7697	1.9689	0.9770	7024	2.02	0.0439
Intercept	7734	-0.7212	1.1246	7024	-0.64	0.5213
Intercept	7890	-2.6615	0.8118	7024	-3.28	0.0010
Intercept	7919	0.9079	0.9236	7024	0.98	0.3256
Intercept	8009	0.1672	0.8393	7024	0.20	0.8421
Intercept	8150	1.2441	0.8612	7024	1.44	0.1486
Intercept	8165	2.6371	0.8243	7024	3.20	0.0014
Intercept	8175	-0.4445	0.9653	7024	-0.46	0.6452
Intercept	8188	-0.1976	1.0015	7024	-0.20	0.8436
Intercept	8193	3.3852	0.8689	7024	3.90	<.0001
Intercept	8202	-0.9410	0.9432	7024	-1.00	0.3185
Intercept	8357	1.5381	1.0424	7024	1.48	0.1401
Intercept	8367	-5.2514	1.3099	7024	-4.01	<.0001
Intercept	8477	0.2756	0.9228	7024	0.30	0.7652

Modello 2: Modello a intercetta casuale con effetto fisso per la variabile ses
ses e' lo status socio-economico

The Mixed Procedure

Solution for Random Effects						
Effect	SCHOOL	Estimate	Std Err Pred	DF	t Value	Pr > t
Intercept	8531	-0.08765	0.8864	7024	-0.10	0.9212
Intercept	8627	-1.7655	0.7977	7024	-2.21	0.0269
Intercept	8628	3.7300	0.7527	7024	4.96	<.0001
Intercept	8707	-0.1242	0.8309	7024	-0.15	0.8812
Intercept	8775	-2.0472	0.8314	7024	-2.46	0.0138
Intercept	8800	-2.9178	0.9786	7024	-2.98	0.0029
Intercept	8854	-5.3177	0.9789	7024	-5.43	<.0001
Intercept	8857	1.2514	0.7393	7024	1.69	0.0906
Intercept	8874	0.1744	0.9332	7024	0.19	0.8517
Intercept	8946	-1.2720	0.7692	7024	-1.65	0.0982
Intercept	8983	-0.8357	0.8108	7024	-1.03	0.3027
Intercept	9021	0.4754	0.7819	7024	0.61	0.5432
Intercept	9104	2.1008	0.7886	7024	2.66	0.0077
Intercept	9158	-2.7482	0.7985	7024	-3.44	0.0006
Intercept	9198	4.2049	0.9897	7024	4.25	<.0001
Intercept	9225	1.1549	0.9330	7024	1.24	0.2158
Intercept	9292	-0.6794	1.1846	7024	-0.57	0.5663
Intercept	9340	-0.4174	1.0150	7024	-0.41	0.6809
Intercept	9347	0.3303	0.7743	7024	0.43	0.6697
Intercept	9359	1.5409	0.7984	7024	1.93	0.0536
Intercept	9397	-2.2506	0.8381	7024	-2.69	0.0073
Intercept	9508	1.0205	0.9432	7024	1.08	0.2793
Intercept	9550	-1.3369	1.0145	7024	-1.32	0.1876
Intercept	9586	0.6375	0.7653	7024	0.83	0.4048

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
SES	1	7024	511.19	<.0001

Modello 3: Modello Pooling

The REG Procedure
Model: MODEL1
Dependent Variable: MATHACH

Number of Observations Read	7185
Number of Observations Used	7185

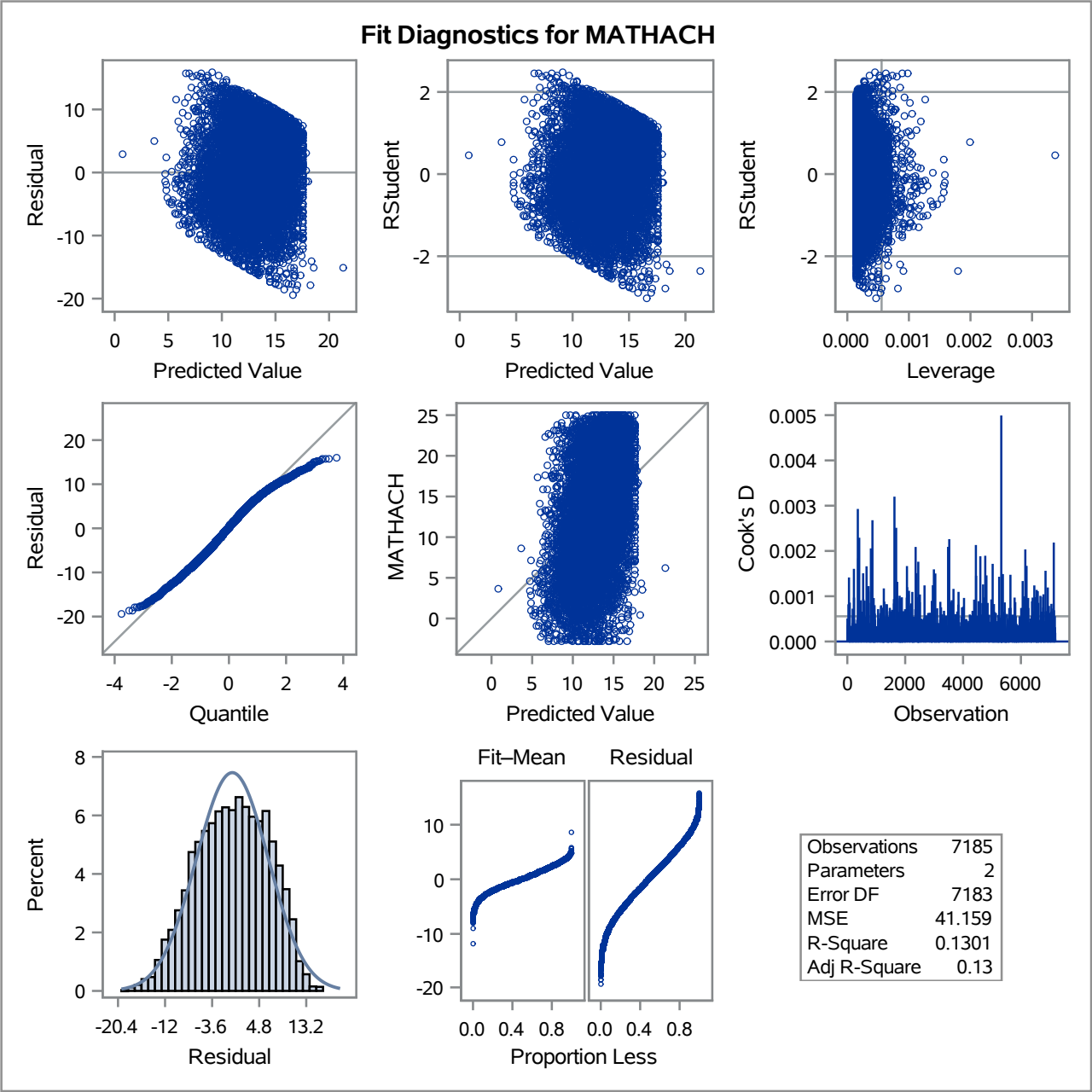
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	44233	44233	1074.69	<.0001
Error	7183	295644	41.15882		
Corrected Total	7184	339877			

Root MSE	6.41551	R-Square	0.1301
Dependent Mean	12.74785	Adj R-Sq	0.1300
Coeff Var	50.32623		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	12.74740	0.07569	168.42	<.0001
SES	1	3.18387	0.09712	32.78	<.0001

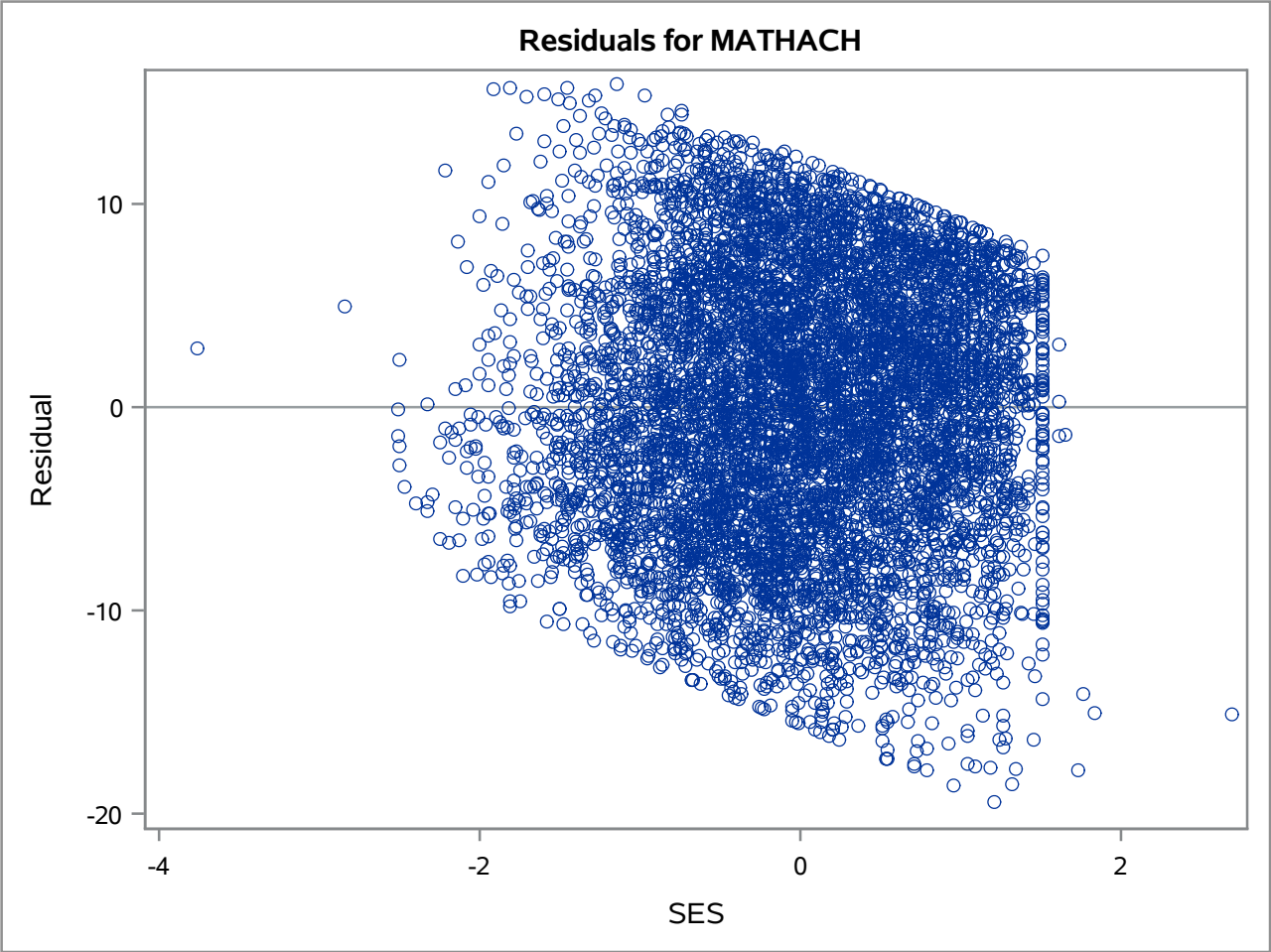
Modello 3: Modello Pooling

The REG Procedure
Model: MODEL1
Dependent Variable: MATHACH



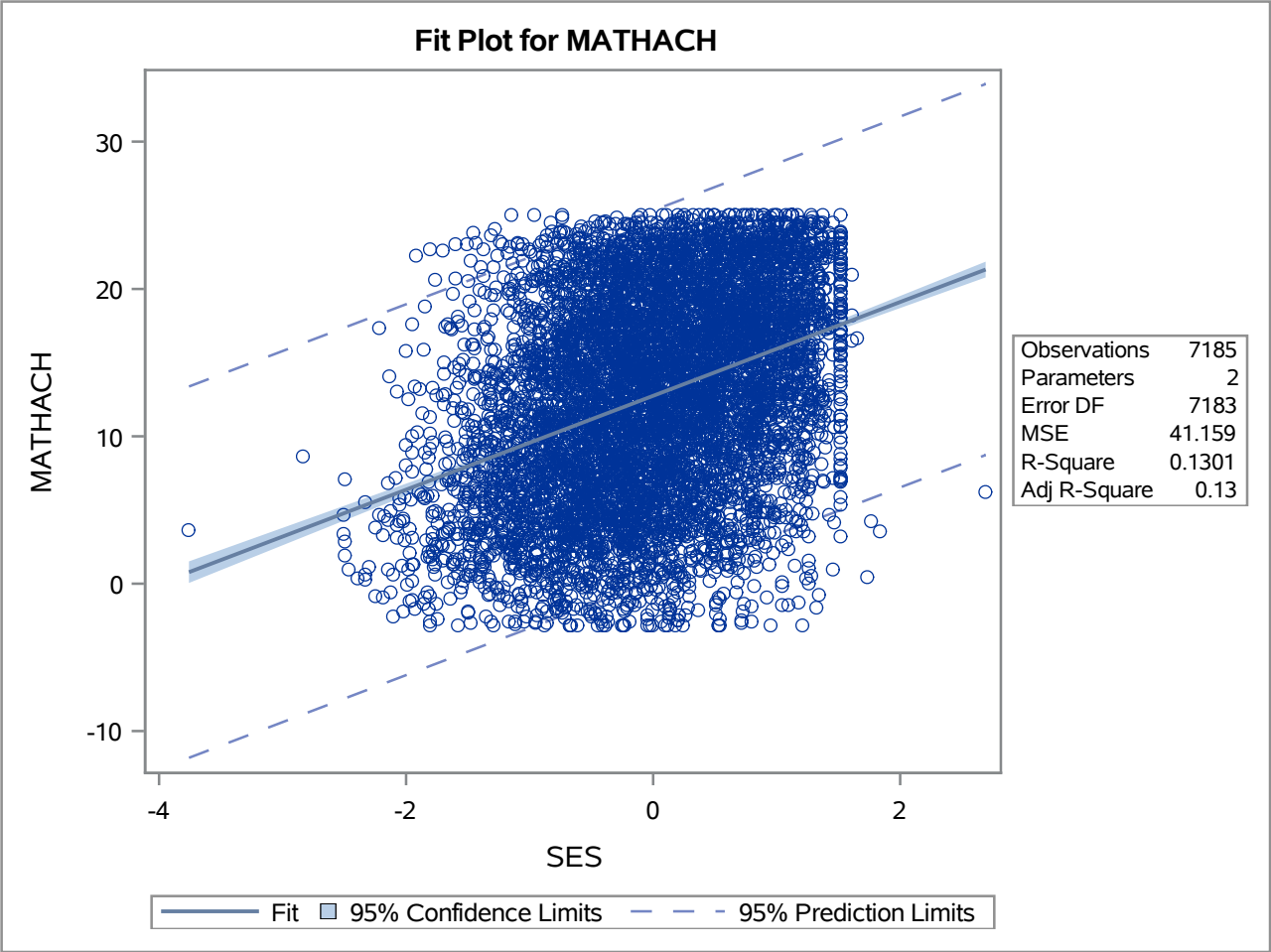
Modello 3: Modello Pooling

The REG Procedure
Model: MODEL1
Dependent Variable: MATHACH



Modello 3: Modello Pooling

The REG Procedure
Model: MODEL1
Dependent Variable: MATHACH



Modello 4: Modello ad effetti fissi: un'intercetta per ogni scuola

The GLM Procedure

Class Level Information		
Class	Levels	Values
SCHOOL	160	1224 1288 1296 1308 1317 1358 1374 1433 1436 1461 1462 1477 1499 1637 1906 1909 1942 1946 2030 2208 2277 2305 2336 2458 2467 2526 2626 2629 2639 2651 2655 2658 2755 2768 2771 2818 2917 2990 2995 3013 3020 3039 3088 3152 3332 3351 3377 3427 3498 3499 3533 3610 3657 3688 3705 3716 3838 3881 3967 3992 3999 4042 4173 4223 4253 4292 4325 4350 4383 4410 4420 4458 4511 4523 4530 4642 4868 4931 5192 5404 5619 5640 5650 5667 5720 5761 5762 5783 5815 5819 5838 5937 6074 6089 6144 6170 6291 6366 6397 6415 6443 6464 6469 6484 6578 6600 6808 6816 6897 6990 7011 7101 7172 7232 7276 7332 7341 7342 7345 7364 7635 7688 7697 7734 7890 7919 8009 8150 8165 8175 8188 8193 8202 8357 8367 8477 8531 8627 8628 8707 8775 8800 8854 8857 8874 8946 8983 9021 9104 9158 9198 9225 9292 9340 9347 9359 9397 9508 9550 9586

Number of Observations Read	7185
Number of Observations Used	7185

Modello 4: Modello ad effetti fissi: un'intercetta per ogni scuola

The GLM Procedure

Dependent Variable: MATHACH

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	161	1247576.644	7748.923	209.41	<.0001
Error	7024	259918.447	37.004		
Uncorrected Total	7185	1507495.091			

R-Square	Coeff Var	Root MSE	MATHACH Mean
0.235257	47.71877	6.083119	12.74785

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SES	1	44316.804	44316.804	1197.61	<.0001
SCHOOL	160	1203259.840	7520.374	203.23	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SES	1	15051.531	15051.531	406.75	<.0001
SCHOOL	160	1203259.840	7520.374	203.23	<.0001

Modello 4: Modello ad effetti fissi: un'intercetta per ogni scuola

The GLM Procedure

Dependent Variable: MATHACH

Parameter	Estimate	Standard Error	t Value	Pr > t
SES	2.19117197	0.10864567	20.17	<.0001
SCHOOL 1224	10.66725461	0.88856825	12.00	<.0001
SCHOOL 1288	13.24435349	1.21669549	10.89	<.0001
SCHOOL 1296	8.56830200	0.87923872	9.75	<.0001
SCHOOL 1308	15.09856120	1.36143581	11.09	<.0001
SCHOOL 1317	12.42100278	0.87882382	14.13	<.0001
SCHOOL 1358	11.24932638	1.11062252	10.13	<.0001
SCHOOL 1374	9.75616696	1.14960222	8.49	<.0001
SCHOOL 1433	18.15902842	1.03114044	17.61	<.0001
SCHOOL 1436	16.87818302	0.91910166	18.36	<.0001
SCHOOL 1461	15.35821696	1.06148990	14.47	<.0001
SCHOOL 1462	11.96233961	0.80900444	14.79	<.0001
SCHOOL 1477	13.87879911	0.77275139	17.96	<.0001
SCHOOL 1499	8.68127925	0.83711257	10.37	<.0001
SCHOOL 1637	8.56978005	1.17320268	7.30	<.0001
SCHOOL 1906	14.86211662	0.83742746	17.75	<.0001
SCHOOL 1909	13.87975427	1.14991729	12.07	<.0001
SCHOOL 1942	16.61651727	1.13203437	14.68	<.0001
SCHOOL 1946	12.89955884	0.97407869	13.24	<.0001
SCHOOL 2030	11.35864791	0.88803105	12.79	<.0001
SCHOOL 2208	14.47743573	0.78667187	18.40	<.0001
SCHOOL 2277	10.96713591	0.78325035	14.00	<.0001
SCHOOL 2305	12.51381719	0.74629670	16.77	<.0001
SCHOOL 2336	15.55013653	0.88861009	17.50	<.0001
SCHOOL 2458	13.48655830	0.80610876	16.73	<.0001
SCHOOL 2467	10.87001605	0.84433712	12.87	<.0001
SCHOOL 2526	16.33667898	0.80651122	20.26	<.0001
SCHOOL 2626	13.53868547	0.98683733	13.72	<.0001
SCHOOL 2629	15.20938483	0.80586755	18.87	<.0001
SCHOOL 2639	8.72870504	0.94447586	9.24	<.0001
SCHOOL 2651	10.94615663	0.98683596	11.09	<.0001
SCHOOL 2655	13.88261731	0.84701422	16.39	<.0001
SCHOOL 2658	12.43544838	0.90806809	13.69	<.0001
SCHOOL 2755	15.25812578	0.88936822	17.16	<.0001
SCHOOL 2768	11.00436682	1.21663770	9.04	<.0001

Modello 4: Modello ad effetti fissi: un'intercetta per ogni scuola

The GLM Procedure

Dependent Variable: MATHACH

Parameter	Estimate	Standard Error	t Value	Pr > t
SCHOOL 2771	12.58791237	0.82107627	15.33	<.0001
SCHOOL 2818	13.63472598	0.93871986	14.52	<.0001
SCHOOL 2917	9.72801829	0.93171190	10.44	<.0001
SCHOOL 2990	17.01333812	0.88089914	19.31	<.0001
SCHOOL 2995	10.20717575	0.89750568	11.37	<.0001
SCHOOL 3013	12.70773787	0.83559445	15.21	<.0001
SCHOOL 3020	13.89100453	0.79234921	17.53	<.0001
SCHOOL 3039	16.20195535	1.32798280	12.20	<.0001
SCHOOL 3088	10.18142773	0.97543102	10.44	<.0001
SCHOOL 3152	13.14102785	0.84358354	15.58	<.0001
SCHOOL 3332	12.93831390	0.98904588	13.08	<.0001
SCHOOL 3351	10.75063269	0.97472271	11.03	<.0001
SCHOOL 3377	10.46927710	0.90904496	11.52	<.0001
SCHOOL 3427	19.38029781	0.86917599	22.30	<.0001
SCHOOL 3498	14.94527156	0.83864755	17.82	<.0001
SCHOOL 3499	12.29072958	0.98802199	12.44	<.0001
SCHOOL 3533	10.70366300	0.87814409	12.19	<.0001
SCHOOL 3610	15.09173859	0.76050185	19.84	<.0001
SCHOOL 3657	10.94363375	0.85472200	12.80	<.0001
SCHOOL 3688	13.76878021	0.92871001	14.83	<.0001
SCHOOL 3705	9.81749387	0.90717615	10.82	<.0001
SCHOOL 3716	11.29044717	0.95112235	11.87	<.0001
SCHOOL 3838	15.74436449	0.82795820	19.02	<.0001
SCHOOL 3881	11.66960459	0.95012471	12.28	<.0001
SCHOOL 3967	12.52834344	0.84393128	14.85	<.0001
SCHOOL 3992	13.84456158	0.83652315	16.55	<.0001
SCHOOL 3999	11.14353540	0.89696148	12.42	<.0001
SCHOOL 4042	13.43457075	0.76164315	17.64	<.0001
SCHOOL 4173	12.65454159	0.91707126	13.80	<.0001
SCHOOL 4223	14.82859239	0.90687532	16.35	<.0001
SCHOOL 4253	10.23168036	0.79978379	12.79	<.0001
SCHOOL 4292	13.92960052	0.75636450	18.42	<.0001
SCHOOL 4325	13.34765683	0.83559768	15.97	<.0001
SCHOOL 4350	11.52103812	1.05906486	10.88	<.0001
SCHOOL 4383	11.30528621	1.21664976	9.29	<.0001

Modello 4: Modello ad effetti fissi: un'intercetta per ogni scuola

The GLM Procedure

Dependent Variable: MATHACH

Parameter	Estimate	Standard Error	t Value	Pr > t
SCHOOL 4410	13.26176801	0.95008127	13.96	<.0001
SCHOOL 4420	14.36552656	1.07562961	13.36	<.0001
SCHOOL 4458	8.11093951	0.88539482	9.16	<.0001
SCHOOL 4511	13.64379211	0.79883744	17.08	<.0001
SCHOOL 4523	8.46950852	0.88733329	9.54	<.0001
SCHOOL 4530	10.36358461	0.76913967	13.47	<.0001
SCHOOL 4642	14.34607815	0.77896454	18.42	<.0001
SCHOOL 4868	11.51890561	1.04398375	11.03	<.0001
SCHOOL 4931	12.99156148	0.79973512	16.24	<.0001
SCHOOL 5192	10.54910896	1.14962224	9.18	<.0001
SCHOOL 5404	13.60730403	0.81069879	16.78	<.0001
SCHOOL 5619	14.49521981	0.75017148	19.32	<.0001
SCHOOL 5640	13.54705854	0.80595718	16.81	<.0001
SCHOOL 5650	14.22435370	0.90682109	15.69	<.0001
SCHOOL 5667	12.86002069	0.78019307	16.48	<.0001
SCHOOL 5720	14.21094410	0.83558812	17.01	<.0001
SCHOOL 5761	11.84580624	0.84430641	14.03	<.0001
SCHOOL 5762	6.94100575	1.00843625	6.88	<.0001
SCHOOL 5783	12.77119652	1.12976323	11.30	<.0001
SCHOOL 5815	8.76135694	1.21886484	7.19	<.0001
SCHOOL 5819	11.74098317	0.86050913	13.64	<.0001
SCHOOL 5838	13.34665915	1.09269272	12.21	<.0001
SCHOOL 5937	15.34958813	1.13181867	13.56	<.0001
SCHOOL 6074	14.38549613	0.81344684	17.68	<.0001
SCHOOL 6089	15.38126777	1.05897623	14.52	<.0001
SCHOOL 6144	9.50378394	0.92888407	10.23	<.0001
SCHOOL 6170	14.84236419	1.32785028	11.18	<.0001
SCHOOL 6291	11.25048000	1.02979588	10.92	<.0001
SCHOOL 6366	14.97766215	0.79946129	18.73	<.0001
SCHOOL 6397	13.27048873	0.78567944	16.89	<.0001
SCHOOL 6415	12.27052094	0.82805759	14.82	<.0001
SCHOOL 6443	10.24901704	1.11128245	9.22	<.0001
SCHOOL 6464	8.57345740	1.13199383	7.57	<.0001
SCHOOL 6469	16.80680473	0.80986625	20.75	<.0001
SCHOOL 6484	13.31807984	1.02843148	12.95	<.0001

Modello 4: Modello ad effetti fissi: un'intercetta per ogni scuola

The GLM Procedure

Dependent Variable: MATHACH

Parameter	Estimate	Standard Error	t Value	Pr > t
SCHOOL 6578	13.12589683	0.81482606	16.11	<.0001
SCHOOL 6600	11.82119881	0.81291175	14.54	<.0001
SCHOOL 6808	9.49686454	0.91712420	10.36	<.0001
SCHOOL 6816	13.37930559	0.82225796	16.27	<.0001
SCHOOL 6897	14.33170626	0.86984641	16.48	<.0001
SCHOOL 6990	7.04980523	0.83727272	8.42	<.0001
SCHOOL 7011	13.88223248	1.05894054	13.11	<.0001
SCHOOL 7101	11.83459037	1.14960165	10.29	<.0001
SCHOOL 7172	8.70185966	0.91760507	9.48	<.0001
SCHOOL 7232	12.74009292	0.84363362	15.10	<.0001
SCHOOL 7276	12.50798870	0.83562385	14.97	<.0001
SCHOOL 7332	13.98532609	0.87861530	15.92	<.0001
SCHOOL 7341	10.15370053	0.85199353	11.92	<.0001
SCHOOL 7342	12.14768105	0.80023311	15.18	<.0001
SCHOOL 7345	11.26569710	0.81289897	13.86	<.0001
SCHOOL 7364	14.36794746	0.91711606	15.67	<.0001
SCHOOL 7635	14.53311759	0.85221598	17.05	<.0001
SCHOOL 7688	18.01500029	0.82805395	21.76	<.0001
SCHOOL 7697	15.15591109	1.07571962	14.09	<.0001
SCHOOL 7734	11.58809281	1.29792744	8.93	<.0001
SCHOOL 7890	9.48643651	0.85369799	11.11	<.0001
SCHOOL 7919	13.84712686	1.00129400	13.83	<.0001
SCHOOL 8009	12.95491784	0.88908068	14.57	<.0001
SCHOOL 8150	14.18216381	0.91766655	15.45	<.0001
SCHOOL 8165	15.77428651	0.86966494	18.14	<.0001
SCHOOL 8175	12.07417570	1.05909924	11.40	<.0001
SCHOOL 8188	12.43639376	1.11072314	11.20	<.0001
SCHOOL 8193	16.61922697	0.92786533	17.91	<.0001
SCHOOL 8202	11.52461383	1.02827692	11.21	<.0001
SCHOOL 8357	14.61687533	1.17075476	12.49	<.0001
SCHOOL 8367	4.49675432	1.62578427	2.77	0.0057
SCHOOL 8477	12.95194983	1.00028551	12.95	<.0001
SCHOOL 8531	12.63447099	0.95105763	13.28	<.0001
SCHOOL 8627	10.65401601	0.83565825	12.75	<.0001
SCHOOL 8628	16.83471007	0.77901165	21.61	<.0001

Modello 4: Modello ad effetti fissi: un'intercetta per ogni scuola

The GLM Procedure

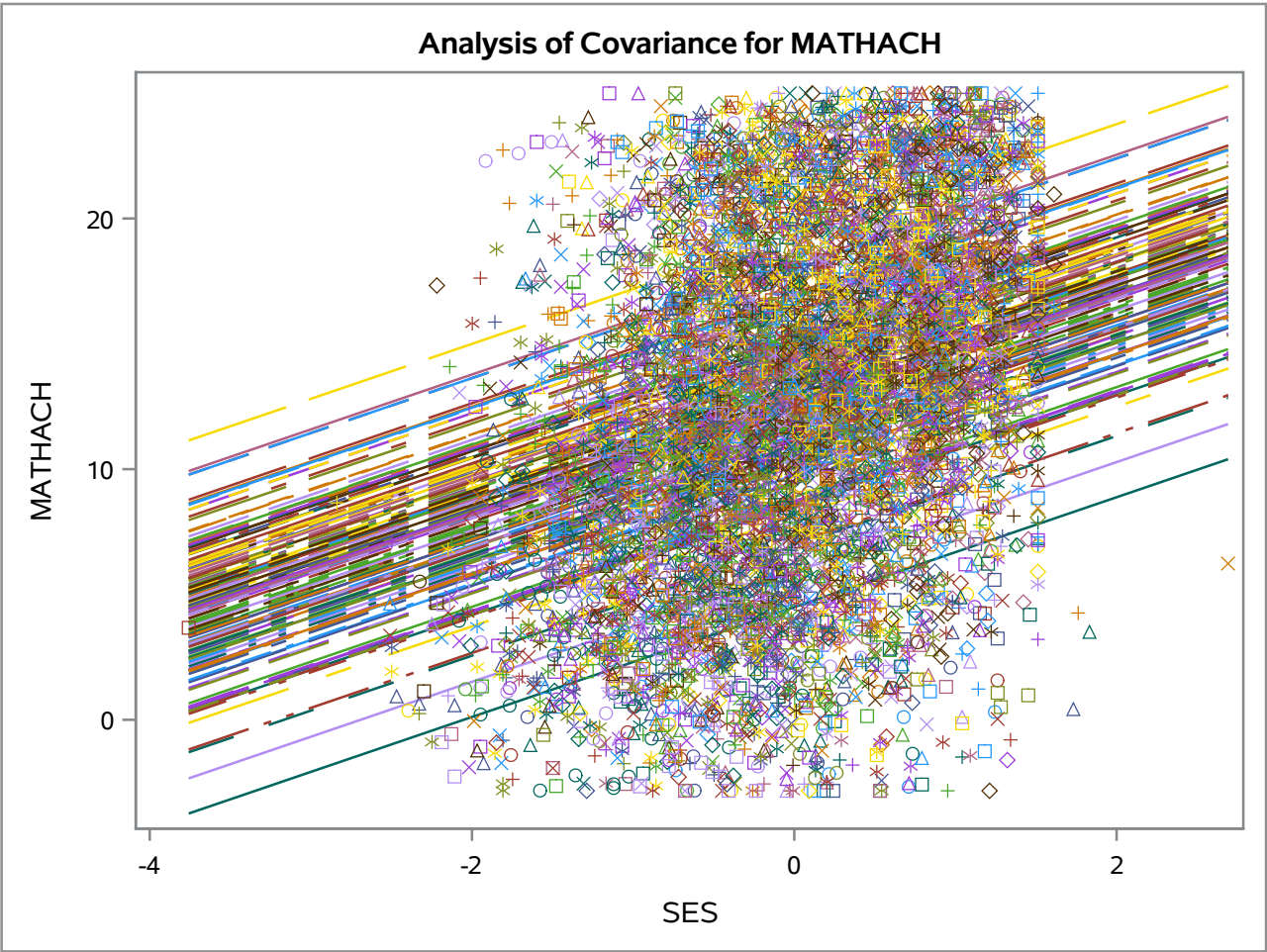
Dependent Variable: MATHACH

Parameter	Estimate	Standard Error	t Value	Pr > t
SCHOOL 8707	12.54403195	0.87818431	14.28	<.0001
SCHOOL 8775	10.21126808	0.87879775	11.62	<.0001
SCHOOL 8800	8.89002622	1.07811095	8.25	<.0001
SCHOOL 8854	5.89795063	1.07849209	5.47	<.0001
SCHOOL 8857	14.16375922	0.76246291	18.58	<.0001
SCHOOL 8874	12.80173049	1.01452894	12.62	<.0001
SCHOOL 8946	11.14516982	0.79966477	13.94	<.0001
SCHOOL 8983	11.63594677	0.85240522	13.65	<.0001
SCHOOL 9021	13.32357845	0.81573700	16.33	<.0001
SCHOOL 9104	15.20307233	0.82421501	18.45	<.0001
SCHOOL 9158	9.42635168	0.83672216	11.27	<.0001
SCHOOL 9198	18.01423372	1.09386723	16.47	<.0001
SCHOOL 9225	14.11211470	1.01422683	13.91	<.0001
SCHOOL 9292	11.58187968	1.39705613	8.29	<.0001
SCHOOL 9340	12.04912701	1.13043127	10.66	<.0001
SCHOOL 9347	13.07499476	0.80605683	16.22	<.0001
SCHOOL 9359	14.49478239	0.83646568	17.33	<.0001
SCHOOL 9397	10.06157132	0.88743373	11.34	<.0001
SCHOOL 9508	13.87703887	1.02834406	13.49	<.0001
SCHOOL 9550	10.97293026	1.12962150	9.71	<.0001
SCHOOL 9586	13.50264288	0.79482477	16.99	<.0001

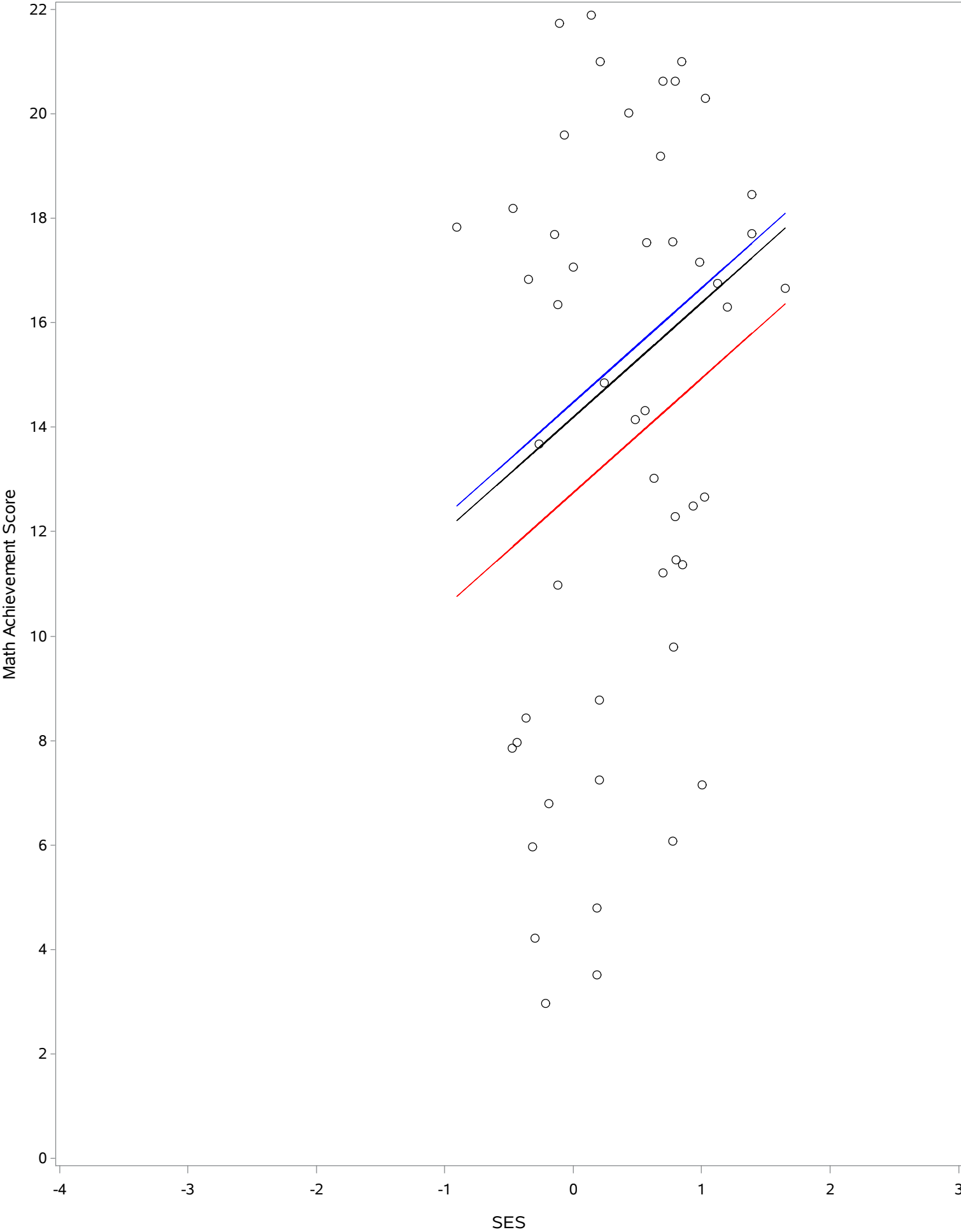
Modello 4: Modello ad effetti fissi: un'intercetta per ogni scuola

The GLM Procedure

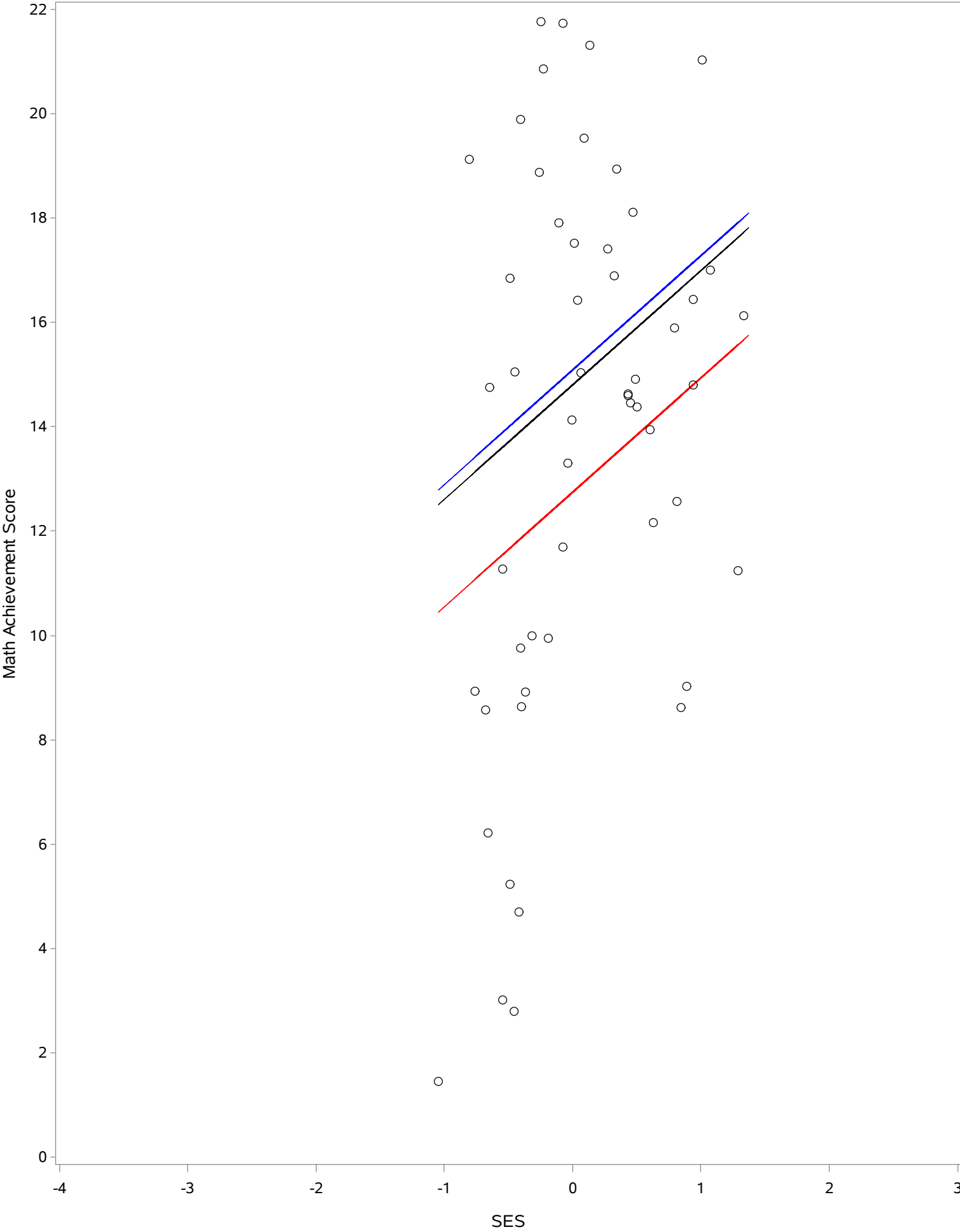
Dependent Variable: MATHACH



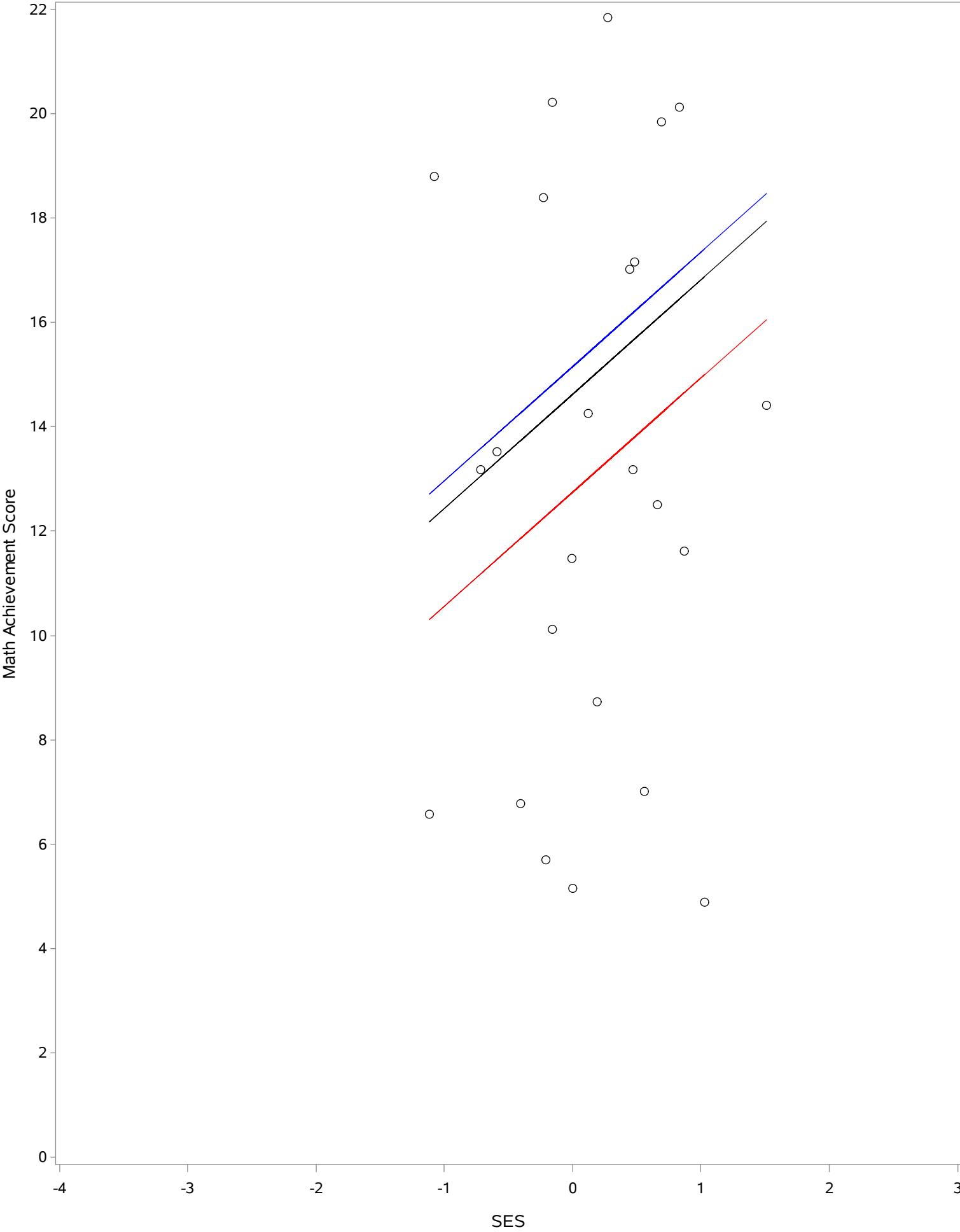
SCHOOL=2208



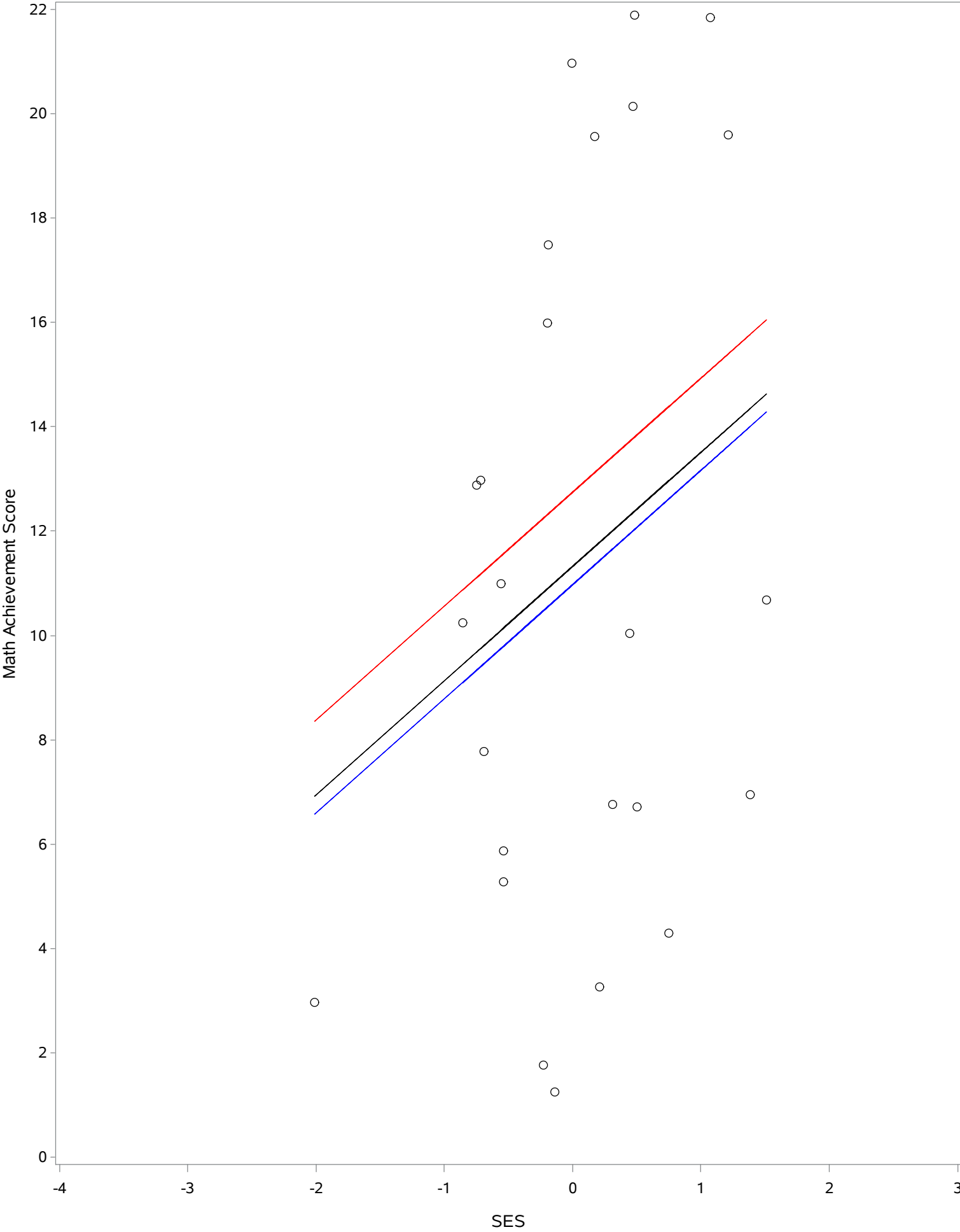
SCHOOL=3610



SCHOOL=7697



SCHOOL=9550



The FREQ Procedure

SCHOOL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1224	47	0.65	47	0.65
1288	25	0.35	72	1.00
1296	48	0.67	120	1.67
1308	20	0.28	140	1.95
1317	48	0.67	188	2.62
1358	30	0.42	218	3.03
1374	28	0.39	246	3.42
1433	35	0.49	281	3.91
1436	44	0.61	325	4.52
1461	33	0.46	358	4.98
1462	57	0.79	415	5.78
1477	62	0.86	477	6.64
1499	53	0.74	530	7.38
1637	27	0.38	557	7.75
1906	53	0.74	610	8.49
1909	28	0.39	638	8.88
1942	29	0.40	667	9.28
1946	39	0.54	706	9.83
2030	47	0.65	753	10.48
2208	60	0.84	813	11.32
2277	61	0.85	874	12.16
2305	67	0.93	941	13.10
2336	47	0.65	988	13.75
2458	57	0.79	1045	14.54
2467	52	0.72	1097	15.27
2526	57	0.79	1154	16.06
2626	38	0.53	1192	16.59
2629	57	0.79	1249	17.38
2639	42	0.58	1291	17.97
2651	38	0.53	1329	18.50
2655	52	0.72	1381	19.22
2658	45	0.63	1426	19.85
2755	47	0.65	1473	20.50
2768	25	0.35	1498	20.85
2771	55	0.77	1553	21.61
2818	42	0.58	1595	22.20
2917	43	0.60	1638	22.80

The FREQ Procedure

SCHOOL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
2990	48	0.67	1686	23.47
2995	46	0.64	1732	24.11
3013	53	0.74	1785	24.84
3020	59	0.82	1844	25.66
3039	21	0.29	1865	25.96
3088	39	0.54	1904	26.50
3152	52	0.72	1956	27.22
3332	38	0.53	1994	27.75
3351	39	0.54	2033	28.30
3377	45	0.63	2078	28.92
3427	49	0.68	2127	29.60
3498	53	0.74	2180	30.34
3499	38	0.53	2218	30.87
3533	48	0.67	2266	31.54
3610	64	0.89	2330	32.43
3657	51	0.71	2381	33.14
3688	43	0.60	2424	33.74
3705	45	0.63	2469	34.36
3716	41	0.57	2510	34.93
3838	54	0.75	2564	35.69
3881	41	0.57	2605	36.26
3967	52	0.72	2657	36.98
3992	53	0.74	2710	37.72
3999	46	0.64	2756	38.36
4042	64	0.89	2820	39.25
4173	44	0.61	2864	39.86
4223	45	0.63	2909	40.49
4253	58	0.81	2967	41.29
4292	65	0.90	3032	42.20
4325	53	0.74	3085	42.94
4350	33	0.46	3118	43.40
4383	25	0.35	3143	43.74
4410	41	0.57	3184	44.31
4420	32	0.45	3216	44.76
4458	48	0.67	3264	45.43
4511	58	0.81	3322	46.24
4523	47	0.65	3369	46.89

The FREQ Procedure

SCHOOL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
4530	63	0.88	3432	47.77
4642	61	0.85	3493	48.62
4868	34	0.47	3527	49.09
4931	58	0.81	3585	49.90
5192	28	0.39	3613	50.29
5404	57	0.79	3670	51.08
5619	66	0.92	3736	52.00
5640	57	0.79	3793	52.79
5650	45	0.63	3838	53.42
5667	61	0.85	3899	54.27
5720	53	0.74	3952	55.00
5761	52	0.72	4004	55.73
5762	37	0.51	4041	56.24
5783	29	0.40	4070	56.65
5815	25	0.35	4095	56.99
5819	50	0.70	4145	57.69
5838	31	0.43	4176	58.12
5937	29	0.40	4205	58.52
6074	56	0.78	4261	59.30
6089	33	0.46	4294	59.76
6144	43	0.60	4337	60.36
6170	21	0.29	4358	60.65
6291	35	0.49	4393	61.14
6366	58	0.81	4451	61.95
6397	60	0.84	4511	62.78
6415	54	0.75	4565	63.54
6443	30	0.42	4595	63.95
6464	29	0.40	4624	64.36
6469	57	0.79	4681	65.15
6484	35	0.49	4716	65.64
6578	56	0.78	4772	66.42
6600	56	0.78	4828	67.20
6808	44	0.61	4872	67.81
6816	55	0.77	4927	68.57
6897	49	0.68	4976	69.26
6990	53	0.74	5029	69.99
7011	33	0.46	5062	70.45

The FREQ Procedure

SCHOOL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
7101	28	0.39	5090	70.84
7172	44	0.61	5134	71.45
7232	52	0.72	5186	72.18
7276	53	0.74	5239	72.92
7332	48	0.67	5287	73.58
7341	51	0.71	5338	74.29
7342	58	0.81	5396	75.10
7345	56	0.78	5452	75.88
7364	44	0.61	5496	76.49
7635	51	0.71	5547	77.20
7688	54	0.75	5601	77.95
7697	32	0.45	5633	78.40
7734	22	0.31	5655	78.71
7890	51	0.71	5706	79.42
7919	37	0.51	5743	79.93
8009	47	0.65	5790	80.58
8150	44	0.61	5834	81.20
8165	49	0.68	5883	81.88
8175	33	0.46	5916	82.34
8188	30	0.42	5946	82.76
8193	43	0.60	5989	83.35
8202	35	0.49	6024	83.84
8357	27	0.38	6051	84.22
8367	14	0.19	6065	84.41
8477	37	0.51	6102	84.93
8531	41	0.57	6143	85.50
8627	53	0.74	6196	86.24
8628	61	0.85	6257	87.08
8707	48	0.67	6305	87.75
8775	48	0.67	6353	88.42
8800	32	0.45	6385	88.87
8854	32	0.45	6417	89.31
8857	64	0.89	6481	90.20
8874	36	0.50	6517	90.70
8946	58	0.81	6575	91.51
8983	51	0.71	6626	92.22
9021	56	0.78	6682	93.00

The FREQ Procedure

SCHOOL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
9104	55	0.77	6737	93.76
9158	53	0.74	6790	94.50
9198	31	0.43	6821	94.93
9225	36	0.50	6857	95.43
9292	19	0.26	6876	95.70
9340	29	0.40	6905	96.10
9347	57	0.79	6962	96.90
9359	53	0.74	7015	97.63
9397	47	0.65	7062	98.29
9508	35	0.49	7097	98.78
9550	29	0.40	7126	99.18
9586	59	0.82	7185	100.00

Modello 5: Si include un effetto casuale per la variabile ses
ses e' lo status socio-economico

The Mixed Procedure

Model Information	
Data Set	IN.HSB12
Dependent Variable	MATHACH
Covariance Structure	Variance Components
Subject Effect	SCHOOL
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Between-Within

Dimensions	
Covariance Parameters	3
Columns in X	2
Columns in Z per Subject	2
Subjects	160
Max Obs per Subject	67

Number of Observations	
Number of Observations Read	7185
Number of Observations Used	7185
Number of Observations Not Used	0

Estimated G Correlation Matrix				
Row	Effect	SCHOOL	Col1	Col2
1	Intercept	1224	1.0000	
2	SES	1224		1.0000

Covariance Parameter Estimates					
Cov Parm	Subject	Estimate	Standard Error	Z Value	Pr > Z
Intercept	SCHOOL	4.8502	0.6732	7.20	<.0001
SES	SCHOOL	0.4232	0.2348	1.80	0.0357
Residual		36.8230	0.6289	58.55	<.0001

Modello 5: Si include un effetto casuale per la variabile ses
ses e' lo status socio-economico

The Mixed Procedure

Fit Statistics	
-2 Res Log Likelihood	46640.7
AIC (Smaller is Better)	46646.7
AICC (Smaller is Better)	46646.7
BIC (Smaller is Better)	46655.9

Solution for Fixed Effects					
Effect	Estimate	Standard Error	DF	t Value	Pr > t
Intercept	12.6528	0.1902	159	66.51	<.0001
SES	2.3956	0.1184	7024	20.24	<.0001

Modello 5: Si include un effetto casuale per la variabile ses
ses e' lo status socio-economico

The Mixed Procedure

Solution for Random Effects						
Effect	SCHOOL	Estimate	Std Err Pred	DF	t Value	Pr > t
Intercept	1224	-1.6068	0.8663	7183	-1.85	0.0637
SES	1224	0.06988	0.5889	7183	0.12	0.9055
Intercept	1288	0.4255	1.0744	7183	0.40	0.6921
SES	1288	0.09858	0.6136	7183	0.16	0.8724
Intercept	1296	-3.5020	0.8579	7183	-4.08	<.0001
SES	1296	-0.1373	0.5847	7183	-0.23	0.8143
Intercept	1308	1.7075	1.1886	7183	1.44	0.1509
SES	1308	-0.03373	0.6296	7183	-0.05	0.9573
Intercept	1317	-0.2115	0.8496	7183	-0.25	0.8034
SES	1317	-0.1661	0.6002	7183	-0.28	0.7820
Intercept	1358	-1.1115	1.0013	7183	-1.11	0.2670
SES	1358	0.3382	0.6084	7183	0.56	0.5783
Intercept	1374	-2.2748	1.0281	7183	-2.21	0.0270
SES	1374	0.1942	0.6064	7183	0.32	0.7487
Intercept	1433	4.3061	1.0071	7183	4.28	<.0001
SES	1433	0.1694	0.6006	7183	0.28	0.7779
Intercept	1436	3.4878	0.9075	7183	3.84	0.0001
SES	1436	0.03695	0.5979	7183	0.06	0.9507
Intercept	1461	1.7196	1.0193	7183	1.69	0.0916
SES	1461	0.6668	0.5921	7183	1.13	0.2601
Intercept	1462	-0.8038	0.8473	7183	-0.95	0.3428
SES	1462	-0.5338	0.5823	7183	-0.92	0.3594
Intercept	1477	1.1017	0.7513	7183	1.47	0.1426
SES	1477	-0.2707	0.5666	7183	-0.48	0.6328
Intercept	1499	-3.2298	0.8300	7183	-3.89	0.0001
SES	1499	0.3944	0.5653	7183	0.70	0.4855
Intercept	1637	-2.9311	1.0930	7183	-2.68	0.0073
SES	1637	0.2602	0.5926	7183	0.44	0.6607
Intercept	1906	1.8317	0.8393	7183	2.18	0.0291
SES	1906	0.02082	0.5835	7183	0.04	0.9715
Intercept	1909	0.9099	1.0349	7183	0.88	0.3793
SES	1909	0.07949	0.6038	7183	0.13	0.8953
Intercept	1942	3.0429	1.0683	7183	2.85	0.0044
SES	1942	-0.02219	0.6146	7183	-0.04	0.9712

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Solution for Random Effects						
Effect	SCHOOL	Estimate	Std Err Pred	DF	t Value	Pr > t
Intercept	1946	0.2052	0.9032	7183	0.23	0.8203
SES	1946	0.2090	0.5911	7183	0.35	0.7236
Intercept	2030	-1.1101	0.8536	7183	-1.30	0.1935
SES	2030	-0.2187	0.5818	7183	-0.38	0.7070
Intercept	2208	1.5084	0.7883	7183	1.91	0.0557
SES	2208	0.09189	0.5809	7183	0.16	0.8743
Intercept	2277	-1.9893	0.8433	7183	-2.36	0.0183
SES	2277	-0.9280	0.5609	7183	-1.65	0.0981
Intercept	2305	-0.4400	0.7894	7183	-0.56	0.5773
SES	2305	-0.7633	0.5594	7183	-1.36	0.1725
Intercept	2336	2.4208	0.8670	7183	2.79	0.0053
SES	2336	-0.01065	0.5868	7183	-0.02	0.9855
Intercept	2458	0.6680	0.7822	7183	0.85	0.3931
SES	2458	0.1328	0.5749	7183	0.23	0.8173
Intercept	2467	-1.4580	0.8223	7183	-1.77	0.0763
SES	2467	0.1350	0.6038	7183	0.22	0.8230
Intercept	2526	3.2949	0.7917	7183	4.16	<.0001
SES	2526	-0.3570	0.5828	7183	-0.61	0.5402
Intercept	2626	0.7601	0.9132	7183	0.83	0.4052
SES	2626	0.1968	0.6112	7183	0.32	0.7475
Intercept	2629	2.2143	0.7766	7183	2.85	0.0044
SES	2629	-0.5484	0.5664	7183	-0.97	0.3330
Intercept	2639	-3.3395	0.9989	7183	-3.34	0.0008
SES	2639	-0.2242	0.5827	7183	-0.38	0.7004
Intercept	2651	-1.4523	0.9131	7183	-1.59	0.1118
SES	2651	0.3647	0.6005	7183	0.61	0.5437
Intercept	2655	1.4778	0.8788	7183	1.68	0.0927
SES	2655	0.4565	0.5784	7183	0.79	0.4299
Intercept	2658	-0.2745	0.8810	7183	-0.31	0.7554
SES	2658	0.03154	0.5890	7183	0.05	0.9573
Intercept	2755	2.2540	0.8838	7183	2.55	0.0108
SES	2755	-0.2274	0.5864	7183	-0.39	0.6982
Intercept	2768	-1.2474	1.0732	7183	-1.16	0.2451
SES	2768	0.2085	0.5886	7183	0.35	0.7231

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Solution for Random Effects						
Effect	SCHOOL	Estimate	Std Err Pred	DF	t Value	Pr > t
Intercept	2771	0.08197	0.8055	7183	0.10	0.9189
SES	2771	0.2615	0.6010	7183	0.43	0.6636
Intercept	2818	0.8065	0.8784	7183	0.92	0.3586
SES	2818	0.06907	0.5985	7183	0.12	0.9081
Intercept	2917	-2.5058	0.9435	7183	-2.66	0.0079
SES	2917	-0.2338	0.5424	7183	-0.43	0.6665
Intercept	2990	3.6716	0.8927	7183	4.11	<.0001
SES	2990	-0.03899	0.5771	7183	-0.07	0.9461
Intercept	2995	-2.1082	0.8568	7183	-2.46	0.0139
SES	2995	-0.2393	0.5482	7183	-0.44	0.6625
Intercept	3013	0.06275	0.7975	7183	0.08	0.9373
SES	3013	0.1746	0.6101	7183	0.29	0.7748
Intercept	3020	1.0854	0.7715	7183	1.41	0.1595
SES	3020	-0.1474	0.5737	7183	-0.26	0.7973
Intercept	3039	2.5223	1.1543	7183	2.19	0.0289
SES	3039	0.1262	0.6143	7183	0.21	0.8372
Intercept	3088	-2.0141	0.9314	7183	-2.16	0.0306
SES	3088	-0.06657	0.5724	7183	-0.12	0.9074
Intercept	3152	0.4175	0.8035	7183	0.52	0.6034
SES	3152	0.1112	0.5469	7183	0.20	0.8389
Intercept	3332	0.1534	0.9635	7183	0.16	0.8735
SES	3332	-0.03847	0.6017	7183	-0.06	0.9490
Intercept	3351	-1.6421	0.9165	7183	-1.79	0.0732
SES	3351	-0.02169	0.5678	7183	-0.04	0.9695
Intercept	3377	-2.0311	0.9008	7183	-2.25	0.0242
SES	3377	-0.5296	0.5783	7183	-0.92	0.3598
Intercept	3427	5.8643	0.8270	7183	7.09	<.0001
SES	3427	-0.5007	0.5836	7183	-0.86	0.3909
Intercept	3498	2.0717	0.8668	7183	2.39	0.0169
SES	3498	-0.3195	0.5866	7183	-0.54	0.5860
Intercept	3499	-0.2987	0.9401	7183	-0.32	0.7507
SES	3499	-0.2126	0.5983	7183	-0.36	0.7224
Intercept	3533	-1.6996	0.8333	7183	-2.04	0.0414
SES	3533	-0.3482	0.6049	7183	-0.58	0.5650

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Solution for Random Effects						
Effect	SCHOOL	Estimate	Std Err Pred	DF	t Value	Pr > t
Intercept	3610	2.1430	0.7397	7183	2.90	0.0038
SES	3610	0.1430	0.5734	7183	0.25	0.8031
Intercept	3657	-1.1492	0.8688	7183	-1.32	0.1860
SES	3657	0.3947	0.5547	7183	0.71	0.4768
Intercept	3688	0.9054	0.8934	7183	1.01	0.3109
SES	3688	-0.07918	0.6056	7183	-0.13	0.8960
Intercept	3705	-2.4112	0.8606	7183	-2.80	0.0051
SES	3705	-0.2780	0.5841	7183	-0.48	0.6341
Intercept	3716	-0.7831	0.9081	7183	-0.86	0.3885
SES	3716	0.8279	0.5679	7183	1.46	0.1449
Intercept	3838	2.7307	0.7944	7183	3.44	0.0006
SES	3838	-0.3631	0.5759	7183	-0.63	0.5284
Intercept	3881	-0.8506	0.8877	7183	-0.96	0.3380
SES	3881	-0.00894	0.6115	7183	-0.01	0.9883
Intercept	3967	-0.03452	0.8117	7183	-0.04	0.9661
SES	3967	0.1726	0.5858	7183	0.29	0.7683
Intercept	3992	1.0749	0.8192	7183	1.31	0.1895
SES	3992	-0.3057	0.5872	7183	-0.52	0.6026
Intercept	3999	-1.2513	0.8459	7183	-1.48	0.1391
SES	3999	0.3604	0.5447	7183	0.66	0.5083
Intercept	4042	0.6757	0.7653	7183	0.88	0.3774
SES	4042	-0.1397	0.5706	7183	-0.24	0.8066
Intercept	4173	-0.00844	0.8604	7183	-0.01	0.9922
SES	4173	0.1604	0.5947	7183	0.27	0.7874
Intercept	4223	1.8783	0.8538	7183	2.20	0.0278
SES	4223	0.001258	0.5976	7183	0.00	0.9983
Intercept	4253	-2.2772	0.7905	7183	-2.88	0.0040
SES	4253	-0.6169	0.5653	7183	-1.09	0.2752
Intercept	4292	0.9543	0.7728	7183	1.23	0.2169
SES	4292	-0.6386	0.5648	7183	-1.13	0.2583
Intercept	4325	0.6209	0.7975	7183	0.78	0.4362
SES	4325	0.1003	0.5517	7183	0.18	0.8557
Intercept	4350	-0.9789	0.9678	7183	-1.01	0.3118
SES	4350	0.2702	0.6023	7183	0.45	0.6538

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Solution for Random Effects						
Effect	SCHOOL	Estimate	Std Err Pred	DF	t Value	Pr > t
Intercept	4383	-1.0630	1.0735	7183	-0.99	0.3221
SES	4383	0.3198	0.6219	7183	0.51	0.6071
Intercept	4410	0.4925	0.8866	7183	0.56	0.5785
SES	4410	0.05760	0.6005	7183	0.10	0.9236
Intercept	4420	1.4316	0.9827	7183	1.46	0.1452
SES	4420	0.05666	0.6015	7183	0.09	0.9250
Intercept	4458	-3.6968	0.9789	7183	-3.78	0.0002
SES	4458	0.04366	0.5695	7183	0.08	0.9389
Intercept	4511	0.8547	0.7700	7183	1.11	0.2670
SES	4511	-0.4331	0.5888	7183	-0.74	0.4621
Intercept	4523	-3.5916	0.8379	7183	-4.29	<.0001
SES	4523	0.01008	0.5773	7183	0.02	0.9861
Intercept	4530	-1.9770	0.8024	7183	-2.46	0.0138
SES	4530	-0.08051	0.5707	7183	-0.14	0.8878
Intercept	4642	1.4626	0.7543	7183	1.94	0.0525
SES	4642	0.2170	0.5696	7183	0.38	0.7033
Intercept	4868	-0.9274	0.9699	7183	-0.96	0.3390
SES	4868	-0.2026	0.5941	7183	-0.34	0.7331
Intercept	4931	0.3429	0.7897	7183	0.43	0.6642
SES	4931	-0.3386	0.5679	7183	-0.60	0.5511
Intercept	5192	-1.6509	1.0285	7183	-1.61	0.1085
SES	5192	-0.1231	0.5947	7183	-0.21	0.8360
Intercept	5404	0.7792	0.8862	7183	0.88	0.3793
SES	5404	-0.1177	0.5905	7183	-0.20	0.8420
Intercept	5619	1.3337	0.7596	7183	1.76	0.0792
SES	5619	0.6409	0.5756	7183	1.11	0.2655
Intercept	5640	0.8594	0.7790	7183	1.10	0.2700
SES	5640	0.2462	0.5891	7183	0.42	0.6760
Intercept	5650	1.3485	0.8525	7183	1.58	0.1137
SES	5650	-0.3997	0.5700	7183	-0.70	0.4832
Intercept	5667	0.01755	0.7821	7183	0.02	0.9821
SES	5667	0.2431	0.5739	7183	0.42	0.6719
Intercept	5720	1.3566	0.7973	7183	1.70	0.0889
SES	5720	0.01781	0.5792	7183	0.03	0.9755

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Effect	SCHOOL	Estimate	Std Err Pred	DF	t Value	Pr > t
Intercept	5761	-0.5969	0.8195	7183	-0.73	0.4664
SES	5761	0.1763	0.5701	7183	0.31	0.7572
Intercept	5762	-4.4569	1.0947	7183	-4.07	<.0001
SES	5762	0.08068	0.5912	7183	0.14	0.8914
Intercept	5783	0.05008	1.0178	7183	0.05	0.9608
SES	5783	0.1149	0.5964	7183	0.19	0.8472
Intercept	5815	-2.7728	1.1206	7183	-2.47	0.0134
SES	5815	0.2024	0.6146	7183	0.33	0.7420
Intercept	5819	-0.8108	0.8219	7183	-0.99	0.3239
SES	5819	-0.08226	0.5927	7183	-0.14	0.8896
Intercept	5838	0.5389	0.9917	7183	0.54	0.5869
SES	5838	-0.05728	0.6108	7183	-0.09	0.9253
Intercept	5937	2.0441	1.0631	7183	1.92	0.0545
SES	5937	-0.02371	0.6111	7183	-0.04	0.9690
Intercept	6074	1.5264	0.7921	7183	1.93	0.0540
SES	6074	-0.2021	0.5813	7183	-0.35	0.7282
Intercept	6089	2.2105	0.9658	7183	2.29	0.0221
SES	6089	-0.09468	0.5983	7183	-0.16	0.8743
Intercept	6144	-2.5437	0.8950	7183	-2.84	0.0045
SES	6144	0.1525	0.5794	7183	0.26	0.7924
Intercept	6170	1.7167	1.1514	7183	1.49	0.1360
SES	6170	0.2853	0.6040	7183	0.47	0.6367
Intercept	6291	-0.9612	0.9781	7183	-0.98	0.3258
SES	6291	0.2415	0.6026	7183	0.40	0.6886
Intercept	6366	2.0415	0.7839	7183	2.60	0.0092
SES	6366	-0.1522	0.5727	7183	-0.27	0.7904
Intercept	6397	0.6057	0.7646	7183	0.79	0.4283
SES	6397	0.09400	0.5518	7183	0.17	0.8647
Intercept	6415	-0.2596	0.7966	7183	-0.33	0.7445
SES	6415	0.2555	0.5737	7183	0.45	0.6561
Intercept	6443	-1.9924	1.0153	7183	-1.96	0.0498
SES	6443	-0.4674	0.5926	7183	-0.79	0.4303
Intercept	6464	-3.1198	1.0657	7183	-2.93	0.0034
SES	6464	0.006766	0.6047	7183	0.01	0.9911

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Intercept	6469	3.4941	0.8626	7183	4.05	<.0001
SES	6469	0.05408	0.5721	7183	0.09	0.9247
Intercept	6484	0.5334	0.9473	7183	0.56	0.5734
SES	6484	-0.2920	0.5963	7183	-0.49	0.6243
Intercept	6578	0.5009	0.8229	7183	0.61	0.5427
SES	6578	-0.01910	0.5784	7183	-0.03	0.9737
Intercept	6600	-0.6967	0.7796	7183	-0.89	0.3715
SES	6600	0.5502	0.5688	7183	0.97	0.3334
Intercept	6808	-2.6757	0.8615	7183	-3.11	0.0019
SES	6808	-0.01175	0.5673	7183	-0.02	0.9835
Intercept	6816	0.6474	0.8281	7183	0.78	0.4344
SES	6816	-0.2236	0.5647	7183	-0.40	0.6921
Intercept	6897	1.2987	0.8412	7183	1.54	0.1227
SES	6897	0.3078	0.5680	7183	0.54	0.5879
Intercept	6990	-4.9394	0.8302	7183	-5.95	<.0001
SES	6990	-0.2942	0.5404	7183	-0.54	0.5862
Intercept	7011	1.0131	0.9650	7183	1.05	0.2938
SES	7011	0.3301	0.6090	7183	0.54	0.5878
Intercept	7101	-0.6437	1.0281	7183	-0.63	0.5312
SES	7101	-0.1889	0.5925	7183	-0.32	0.7499
Intercept	7172	-3.3657	0.8725	7183	-3.86	0.0001
SES	7172	-0.1890	0.5865	7183	-0.32	0.7473
Intercept	7232	0.1254	0.8048	7183	0.16	0.8762
SES	7232	0.4214	0.5957	7183	0.71	0.4793
Intercept	7276	-0.1662	0.7980	7183	-0.21	0.8351
SES	7276	0.3736	0.5560	7183	0.67	0.5017
Intercept	7332	1.0890	0.8438	7183	1.29	0.1969
SES	7332	0.03588	0.5829	7183	0.06	0.9509
Intercept	7341	-2.1720	0.8136	7183	-2.67	0.0076
SES	7341	-0.1819	0.5471	7183	-0.33	0.7396
Intercept	7342	-0.4546	0.8029	7183	-0.57	0.5713
SES	7342	-0.2244	0.5883	7183	-0.38	0.7029
Intercept	7345	-1.2434	0.7793	7183	-1.60	0.1107
SES	7345	0.5446	0.5450	7183	1.00	0.3177

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Solution for Random Effects						
Effect	SCHOOL	Estimate	Std Err Pred	DF	t Value	Pr > t
Intercept	7364	1.4593	0.8616	7183	1.69	0.0903
SES	7364	-0.2496	0.6130	7183	-0.41	0.6839
Intercept	7635	1.5855	0.8192	7183	1.94	0.0530
SES	7635	0.03762	0.5786	7183	0.07	0.9482
Intercept	7688	4.7179	0.7970	7183	5.92	<.0001
SES	7688	-0.3064	0.5950	7183	-0.51	0.6067
Intercept	7697	1.9541	0.9850	7183	1.98	0.0473
SES	7697	0.1264	0.6098	7183	0.21	0.8358
Intercept	7734	-0.5100	1.1436	7183	-0.45	0.6556
SES	7734	0.6024	0.5928	7183	1.02	0.3096
Intercept	7890	-2.8475	0.8535	7183	-3.34	0.0009
SES	7890	-0.4053	0.5887	7183	-0.69	0.4912
Intercept	7919	0.8376	0.9515	7183	0.88	0.3787
SES	7919	0.1996	0.6110	7183	0.33	0.7439
Intercept	8009	0.2191	0.8790	7183	0.25	0.8032
SES	8009	-0.1120	0.5973	7183	-0.19	0.8513
Intercept	8150	1.3482	0.8744	7183	1.54	0.1232
SES	8150	-0.3725	0.5962	7183	-0.62	0.5321
Intercept	8165	2.6610	0.8383	7183	3.17	0.0015
SES	8165	-0.04823	0.5877	7183	-0.08	0.9346
Intercept	8175	-0.4575	0.9686	7183	-0.47	0.6367
SES	8175	-0.1121	0.5994	7183	-0.19	0.8517
Intercept	8188	-0.2247	1.0036	7183	-0.22	0.8228
SES	8188	0.2648	0.6055	7183	0.44	0.6619
Intercept	8193	3.3939	0.8731	7183	3.89	0.0001
SES	8193	-0.05341	0.6037	7183	-0.09	0.9295
Intercept	8202	-0.9560	0.9438	7183	-1.01	0.3111
SES	8202	0.2066	0.5956	7183	0.35	0.7286
Intercept	8357	1.5548	1.0435	7183	1.49	0.1362
SES	8357	0.05609	0.5678	7183	0.10	0.9213
Intercept	8367	-5.2886	1.3118	7183	-4.03	<.0001
SES	8367	-0.1794	0.6245	7183	-0.29	0.7739
Intercept	8477	0.3295	0.9272	7183	0.36	0.7223
SES	8477	0.2948	0.5777	7183	0.51	0.6099

Modello 5: Si include un effetto casuale per la variabile ses
ses e' lo status socio-economico

The Mixed Procedure

Solution for Random Effects						
Effect	SCHOOL	Estimate	Std Err Pred	DF	t Value	Pr > t
Intercept	8531	-0.1405	0.9083	7183	-0.15	0.8771
SES	8531	0.1588	0.5878	7183	0.27	0.7870
Intercept	8627	-1.7548	0.7989	7183	-2.20	0.0281
SES	8627	-0.1335	0.5712	7183	-0.23	0.8151
Intercept	8628	3.7127	0.7555	7183	4.91	<.0001
SES	8628	-0.2560	0.5862	7183	-0.44	0.6624
Intercept	8707	-0.1556	0.8337	7183	-0.19	0.8520
SES	8707	0.2563	0.5605	7183	0.46	0.6474
Intercept	8775	-2.1130	0.8479	7183	-2.49	0.0127
SES	8775	-0.2214	0.5822	7183	-0.38	0.7038
Intercept	8800	-2.8241	1.0331	7183	-2.73	0.0063
SES	8800	0.1744	0.5841	7183	0.30	0.7653
Intercept	8854	-5.2155	1.0393	7183	-5.02	<.0001
SES	8854	0.1945	0.5778	7183	0.34	0.7363
Intercept	8857	1.3581	0.7862	7183	1.73	0.0841
SES	8857	-0.2203	0.5880	7183	-0.37	0.7079
Intercept	8874	0.2601	0.9473	7183	0.27	0.7836
SES	8874	0.2828	0.5910	7183	0.48	0.6323
Intercept	8946	-1.3196	0.7872	7183	-1.68	0.0937
SES	8946	-0.1610	0.5548	7183	-0.29	0.7716
Intercept	8983	-0.8771	0.8237	7183	-1.06	0.2870
SES	8983	-0.1732	0.5846	7183	-0.30	0.7670
Intercept	9021	0.4540	0.8437	7183	0.54	0.5905
SES	9021	0.04333	0.5831	7183	0.07	0.9408
Intercept	9104	2.0942	0.8794	7183	2.38	0.0173
SES	9104	0.02024	0.6023	7183	0.03	0.9732
Intercept	9158	-2.5973	0.8214	7183	-3.16	0.0016
SES	9158	0.4347	0.5617	7183	0.77	0.4390
Intercept	9198	4.1536	1.0175	7183	4.08	<.0001
SES	9198	0.1830	0.6035	7183	0.30	0.7617
Intercept	9225	1.1398	0.9406	7183	1.21	0.2256
SES	9225	0.1080	0.5891	7183	0.18	0.8546
Intercept	9292	-0.7005	1.2147	7183	-0.58	0.5641
SES	9292	-0.05223	0.6267	7183	-0.08	0.9336

Modello 5: Si include un effetto casuale per la variabile ses
ses e' lo status socio-economico

The Mixed Procedure

Solution for Random Effects						
Effect	SCHOOL	Estimate	Std Err Pred	DF	t Value	Pr > t
Intercept	9340	-0.3828	1.0331	7183	-0.37	0.7110
SES	9340	0.09909	0.6159	7183	0.16	0.8722
Intercept	9347	0.3210	0.7808	7183	0.41	0.6810
SES	9347	0.07206	0.5699	7183	0.13	0.8994
Intercept	9359	1.6983	0.8183	7183	2.08	0.0380
SES	9359	-0.4857	0.5928	7183	-0.82	0.4127
Intercept	9397	-2.2528	0.8403	7183	-2.68	0.0074
SES	9397	-0.01383	0.5954	7183	-0.02	0.9815
Intercept	9508	1.0479	0.9455	7183	1.11	0.2678
SES	9508	0.1646	0.6126	7183	0.27	0.7882
Intercept	9550	-1.3501	1.0147	7183	-1.33	0.1834
SES	9550	0.2423	0.5946	7183	0.41	0.6837
Intercept	9586	0.6996	0.8270	7183	0.85	0.3976
SES	9586	-0.1075	0.5788	7183	-0.19	0.8527