

Appendix 3_8 Extended Assessment Regression Analyses

Reading Regression

gband = 345

Descriptive Statistics^a

	Mean	Std. Deviation	N
tot	67.65	28.690	2987
t1tot	36.32	6.852	2987
grade	3.92	.805	2987
type	.32	.467	2987

a. gband = 345

Correlations^a

		tot	t1tot	grade	type
Pearson Correlation	tot	1.000	.747	.083	-.571
	t1tot	.747	1.000	.007	-.495
	grade	.083	.007	1.000	.008
	type	-.571	-.495	.008	1.000
Sig. (1-tailed)	tot	.	.000	.000	.000
	t1tot	.000	.	.357	.000
	grade	.000	.357	.	.328
	type	.000	.000	.328	.
N	tot	2987	2987	2987	2987
	t1tot	2987	2987	2987	2987
	grade	2987	2987	2987	2987
	type	2987	2987	2987	2987

a. gband = 345

Variables Entered/Removed^{b,c}

Model	Variables Entered	Variables Removed	Method
1	grade, t1tot ^a		. Enter
2	type ^a		. Enter

a. All requested variables entered.

b. gband = 345

c. Dependent Variable: tot

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.751 ^a	.564	.564	18.940	.564	1933.852	2	2984	.000
2	.786 ^b	.619	.618	17.729	.054	422.498	1	2983	.000

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = 345

ANOVA^{c,d}

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1.387E6	2	693705.240	1933.852	.000 ^b
	Residual	1.070E6	2984	358.717		
	Total	2.458E6	2986			
2	Regression	1.520E6	3	506736.493	1612.175	.000 ^b
	Residual	937612.067	2983	314.318		
	Total	2.458E6	2986			

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = 345

d. Dependent Variable: tot

Coefficients^{a,b}

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Correlations		
		B	Std. Error	Beta			Zero-order	Partial	Part
1	(Constant)	-56.744	2.510		-22.609	.000			
	t1tot	3.127	.051	.747	61.814	.000	.747	.749	.747
	grade	2.764	.431	.078	6.419	.000	.083	.117	.078
2	(Constant)	-31.764	2.645		-12.009	.000			
	t1tot	2.572	.054	.614	47.202	.000	.747	.654	.534
	grade	2.874	.403	.081	7.128	.000	.083	.129	.081
	type	-16.446	.800	-.268	-20.555	.000	-.571	-.352	-.232

a. gband = 345

b. Dependent Variable: tot

Excluded Variables^{b,c}

Model	Beta In	t	Sig.	Partial Correlation	Collinearity Statistics
					Tolerance
1 type	-.268 ^a	-20.555	.000	-.352	.755

a. Predictors in the Model: (Constant), grade, t1tot

b. gband = 345

c. Dependent Variable: tot

gband = 678

Descriptive Statistics^a

	Mean	Std. Deviation	N
tot	60.46	32.910	1717
t1tot	35.90	7.571	1717
grade	6.91	.817	1717
type	.45	.497	1717

a. gband = 678

Correlations^a

		tot	t1tot	grade	type
Pearson Correlation	tot	1.000	.674	-.042	-.562
	t1tot	.674	1.000	-.031	-.424
	grade	-.042	-.031	1.000	.067
	type	-.562	-.424	.067	1.000
Sig. (1-tailed)	tot	.	.000	.042	.000
	t1tot	.000	.	.099	.000
	grade	.042	.099	.	.003
	type	.000	.000	.003	.
N	tot	1717	1717	1717	1717
	t1tot	1717	1717	1717	1717
	grade	1717	1717	1717	1717
	type	1717	1717	1717	1717

a. gband = 678

Variables Entered/Removed^{b,c}

Model	Variables Entered	Variables Removed	Method
1	grade, t1tot ^a		. Enter
2	type ^a		. Enter

a. All requested variables entered.

b. gband = 678

c. Dependent Variable: tot

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.674 ^a	.454	.454	24.328	.454	713.096	2	1714	.000
2	.740 ^b	.547	.546	22.171	.093	350.716	1	1713	.000

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = 678

ANOVA^{c,d}

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	844077.750	2	422038.875	713.096	.000 ^a
	Residual	1.014E6	1714	591.840		
	Total	1.858E6	1716			
2	Regression	1.016E6	3	338823.756	689.300	.000 ^b
	Residual	842020.921	1713	491.548		
	Total	1.858E6	1716			

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = 678

d. Dependent Variable: tot

Coefficients^{a,b}

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Correlations		
		B	Std. Error	Beta			Zero-order	Partial	Part
1	(Constant)	-38.774	5.797		-6.689	.000			
	t1tot	2.925	.078	.673	37.693	.000	.674	.673	.673
	grade	-.836	.719	-.021	-1.163	.245	-.042	-.028	-.021
2	(Constant)	-11.586	5.479		-2.115	.035			
	t1tot	2.306	.078	.531	29.538	.000	.674	.581	.480
	grade	-.107	.656	-.003	-.164	.870	-.042	-.004	-.003
	type	-22.290	1.190	-.337	-18.727	.000	-.562	-.412	-.305

a. gband = 678

b. Dependent Variable: tot

Excluded Variables^{b,c}

Model	Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
					Tolerance	
1	type	-.337 ^a	-18.727	.000	-.412	.817

a. Predictors in the Model: (Constant), grade, t1tot

b. gband = 678

c. Dependent Variable: tot

gband = 910

Descriptive Statistics^a

	Mean	Std. Deviation	N
tot	54.89	35.434	461
t1tot	34.60	8.910	461
grade	10.00	.209	461
type	.56	.497	461

a. gband = 910

Correlations^a

		tot	t1tot	grade	type
Pearson Correlation	tot	1.000	.720	.007	-.584
	t1tot	.720	1.000	.056	-.424
	grade	.007	.056	1.000	.021
	type	-.584	-.424	.021	1.000
Sig. (1-tailed)	tot	.	.000	.440	.000
	t1tot	.000	.	.114	.000
	grade	.440	.114	.	.327
	type	.000	.000	.327	.
N	tot	461	461	461	461
	t1tot	461	461	461	461
	grade	461	461	461	461
	type	461	461	461	461

a. gband = 910

Variables Entered/Removed^{b,c}

Model	Variables Entered	Variables Removed	Method
1	grade, t1tot ^a		. Enter
2	type ^a		. Enter

a. All requested variables entered.

b. gband = 910

c. Dependent Variable: tot

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.721 ^a	.520	.518	24.612	.520	247.736	2	458	.000
2	.783 ^b	.614	.611	22.094	.094	111.360	1	457	.000

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = 910

ANOVA^{c,d}

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	300131.607	2	150065.804	247.736	.000 ^a
	Residual	277432.970	458	605.749		
	Total	577564.577	460			
2	Regression	354489.531	3	118163.177	242.074	.000 ^b
	Residual	223075.046	457	488.129		
	Total	577564.577	460			

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = 910

d. Dependent Variable: tot

Coefficients^{a,b}

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Correlations		
		B	Std. Error	Beta			Zero-order	Partial	Part
1	(Constant)	12.466	55.063		.226	.821			
	t1tot	2.871	.129	.722	22.258	.000	.720	.721	.721
	grade	-5.691	5.512	-.033	-1.032	.302	.007	-.048	-.033
2	(Constant)	19.892	49.434		.402	.688			
	t1tot	2.297	.128	.577	17.947	.000	.720	.643	.522
	grade	-3.104	4.954	-.018	-.627	.531	.007	-.029	-.018
	type	-24.153	2.289	-.339	-10.553	.000	-.584	-.443	-.307

a. gband = 910

b. Dependent Variable: tot

Excluded Variables^{b,c}

Model	Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
					Tolerance	
1	type	-.339 ^a	-10.553	.000	-.443	.819

a. Predictors in the Model: (Constant), grade, t1tot

b. gband = 910

c. Dependent Variable: tot

Writing Regression

gband = E

Descriptive Statistics^a

	Mean	Std. Deviation	N
tot	49.43	27.855	974
t1tot	36.96	7.504	974
grade	4.01	.226	974
type	.38	.485	974

a. gband = E

Correlations^a

		tot	t1tot	grade	type
Pearson Correlation	tot	1.000	.586	.009	-.482
	t1tot	.586	1.000	-.017	-.418
	grade	.009	-.017	1.000	.021
	type	-.482	-.418	.021	1.000
Sig. (1-tailed)	tot	.	.000	.387	.000
	t1tot	.000	.	.295	.000
	grade	.387	.295	.	.257
	type	.000	.000	.257	.
N	tot	974	974	974	974
	t1tot	974	974	974	974
	grade	974	974	974	974
	type	974	974	974	974

a. gband = E

Variables Entered/Removed^{b,c}

Model	Variables Entered	Variables Removed	Method
1	grade, t1tot ^a		. Enter
2	type ^a		. Enter

a. All requested variables entered.

b. gband = E

c. Dependent Variable: tot

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.586 ^a	.343	.342	22.593	.343	253.979	2	971	.000
2	.642 ^b	.412	.410	21.400	.068	112.263	1	970	.000

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = E

ANOVA^{c,d}

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	259289.100	2	129644.550	253.979	.000 ^a
	Residual	495650.194	971	510.453		
	Total	754939.295	973			
2	Regression	310702.785	3	103567.595	226.142	.000 ^b
	Residual	444236.509	970	457.976		
	Total	754939.295	973			

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = E

d. Dependent Variable: tot

Coefficients^{a,b}

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Correlations		
		B	Std. Error	Beta			Zero-order	Partial	Part
1	(Constant)	-40.519	13.394		-3.025	.003			
	t1tot	2.176	.097	.586	22.535	.000	.586	.586	.586
	grade	2.382	3.199	.019	.744	.457	.009	.024	.019
2	(Constant)	-19.773	12.837		-1.540	.124			
	t1tot	1.730	.101	.466	17.189	.000	.586	.483	.423
	grade	2.865	3.030	.023	.945	.345	.009	.030	.023
	type	-16.506	1.558	-.287	-10.595	.000	-.482	-.322	-.261

a. gband = E

b. Dependent Variable: tot

Excluded Variables^{b,c}

Model	Beta In	t	Sig.	Partial Correlation	Collinearity Statistics
					Tolerance
1 type	-.287 ^a	-10.595	.000	-.322	.825

a. Predictors in the Model: (Constant), grade, t1tot

b. gband = E

c. Dependent Variable: tot

gband = J

Descriptive Statistics^a

	Mean	Std. Deviation	N
tot	48.78	30.963	565
t1tot	37.02	7.653	565
grade	6.99	.297	565
type	.50	.500	565

a. gband = J

Correlations^a

		tot	t1tot	grade	type
Pearson Correlation	tot	1.000	.540	.036	-.520
	t1tot	.540	1.000	.027	-.343
	grade	.036	.027	1.000	-.035
	type	-.520	-.343	-.035	1.000
Sig. (1-tailed)	tot	.	.000	.194	.000
	t1tot	.000	.	.258	.000
	grade	.194	.258	.	.200
	type	.000	.000	.200	.
N	tot	565	565	565	565
	t1tot	565	565	565	565
	grade	565	565	565	565
	type	565	565	565	565

a. gband = J

Variables Entered/Removed^{b,c}

Model	Variables Entered	Variables Removed	Method
1	grade, t1tot ^a		. Enter
2	type ^a		. Enter

a. All requested variables entered.

b. gband = J

c. Dependent Variable: tot

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.540 ^a	.292	.289	26.099	.292	115.902	2	562	.000
2	.647 ^b	.419	.415	23.672	.127	122.134	1	561	.000

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

Model Summary^f

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.540 ^a	.292	.289	26.099	.292	115.902	2	562	.000
2	.647 ^b	.419	.415	23.672	.127	122.134	1	561	.000

a. Predictors: (Constant), grade, t1tot
 c. gband = J

ANOVA^{c,d}

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	157896.607	2	78948.303	115.902	.000 ^a
	Residual	382812.738	562	681.161		
	Total	540709.345	564			
2	Regression	226337.884	3	75445.961	134.634	.000 ^b
	Residual	314371.461	561	560.377		
	Total	540709.345	564			

a. Predictors: (Constant), grade, t1tot
 b. Predictors: (Constant), grade, t1tot, type
 c. gband = J
 d. Dependent Variable: tot

Coefficients^{a,b}

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Correlations		
		B	Std. Error	Beta			Zero-order	Partial	Part
1	(Constant)	-47.760	26.245		-1.820	.069			
	t1tot	2.182	.144	.539	15.190	.000	.540	.540	.539
	grade	2.254	3.697	.022	.610	.542	.036	.026	.022
2	(Constant)	-9.351	24.057		-.389	.698			
	t1tot	1.657	.139	.410	11.951	.000	.540	.450	.385
	grade	1.224	3.354	.012	.365	.715	.036	.015	.012
	type	-23.444	2.121	-.379	-11.051	.000	-.520	-.423	-.356

a. gband = J
 b. Dependent Variable: tot

Excluded Variables^{b,c}

Model	Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
					Tolerance	
1	type	-.379 ^a	-11.051	.000	-.423	.882

a. Predictors in the Model: (Constant), grade, t1tot
 b. gband = J
 c. Dependent Variable: tot

gband = H

Descriptive Statistics^a

	Mean	Std. Deviation	N
tot	49.20	34.225	456
t1tot	36.48	8.454	456
grade	10.00	.204	456
type	.56	.497	456

a. gband = H

Correlations^a

		tot	t1tot	grade	type
Pearson Correlation	tot	1.000	.540	.000	-.572
	t1tot	.540	1.000	.087	-.286
	grade	.000	.087	1.000	.010
	type	-.572	-.286	.010	1.000
Sig. (1-tailed)	tot	.	.000	.494	.000
	t1tot	.000	.	.031	.000
	grade	.494	.031	.	.419
	type	.000	.000	.419	.
N	tot	456	456	456	456
	t1tot	456	456	456	456
	grade	456	456	456	456
	type	456	456	456	456

a. gband = H

Variables Entered/Removed^{b,c}

Model	Variables Entered	Variables Removed	Method
1	grade, t1tot ^a		. Enter
2	type ^a		. Enter

a. All requested variables entered.

b. gband = H

c. Dependent Variable: tot

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.542 ^a	.294	.291	28.823	.294	94.277	2	453	.000
2	.695 ^b	.483	.479	24.696	.189	165.068	1	452	.000

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

Model Summary^f

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.542 ^a	.294	.291	28.823	.294	94.277	2	453	.000
2	.695 ^b	.483	.479	24.696	.189	165.068	1	452	.000

a. Predictors: (Constant), grade, t1tot

c. gband = H

ANOVA^{c,d}

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	156642.178	2	78321.089	94.277	.000 ^a
	Residual	376331.452	453	830.754		
	Total	532973.629	455			
2	Regression	257312.340	3	85770.780	140.638	.000 ^b
	Residual	275661.289	452	609.870		
	Total	532973.629	455			

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = H

d. Dependent Variable: tot

Coefficients^{a,b}

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Correlations		
		B	Std. Error	Beta			Zero-order	Partial	Part
1	(Constant)	49.451	66.156		.747	.455			
	t1tot	2.203	.160	.544	13.731	.000	.540	.542	.542
	grade	-8.062	6.638	-.048	-1.214	.225	.000	-.057	-.048
2	(Constant)	59.783	56.689		1.055	.292			
	t1tot	1.672	.144	.413	11.644	.000	.540	.480	.394
	grade	-5.416	5.691	-.032	-.952	.342	.000	-.045	-.032
	type	-31.239	2.431	-.454	-12.848	.000	-.572	-.517	-.435

a. gband = H

b. Dependent Variable: tot

Excluded Variables^{b,c}

Model	Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	
					Tolerance	
1	type	-.454 ^a	-12.848	.000	-.517	.917

a. Predictors in the Model: (Constant), grade, t1tot

b. gband = H

c. Dependent Variable: tot

Mathematics Regression

gband = 345

Descriptive Statistics^a

	Mean	Std. Deviation	N
tot	45.20	25.494	2379
t1tot	36.41	7.099	2379
grade	3.95	.804	2379
type	.40	.490	2379

a. gband = 345

Correlations^a

		tot	t1tot	grade	type
Pearson Correlation	tot	1.000	.633	.093	-.554
	t1tot	.633	1.000	.018	-.431
	grade	.093	.018	1.000	-.013
	type	-.554	-.431	-.013	1.000
Sig. (1-tailed)	tot	.	.000	.000	.000
	t1tot	.000	.	.196	.000
	grade	.000	.196	.	.257
	type	.000	.000	.257	.
N	tot	2379	2379	2379	2379
	t1tot	2379	2379	2379	2379
	grade	2379	2379	2379	2379
	type	2379	2379	2379	2379

a. gband = 345

Variables Entered/Removed^{b,c}

Model	Variables Entered	Variables Removed	Method
1	grade, t1tot ^a		. Enter
2	type ^a		. Enter

a. All requested variables entered.

b. gband = 345

c. Dependent Variable: tot

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.638 ^a	.407	.407	19.635	.407	816.532	2	2376	.000
2	.710 ^b	.504	.503	17.969	.097	462.026	1	2375	.000

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = 345

ANOVA^{c,d}

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	629584.817	2	314792.409	816.532	.000 ^a
	Residual	916004.542	2376	385.524		
	Total	1.546E6	2378			
2	Regression	778761.478	3	259587.159	803.987	.000 ^b
	Residual	766827.881	2375	322.875		
	Total	1.546E6	2378			

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = 345

d. Dependent Variable: tot

Coefficients^{a,b}

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Correlations		
		B	Std. Error	Beta			Zero-order	Partial	Part
1	(Constant)	-47.609	2.863		-16.631	.000			
	t1tot	2.268	.057	.632	39.982	.000	.633	.634	.631
	grade	2.591	.501	.082	5.171	.000	.093	.105	.082
2	(Constant)	-20.838	2.901		-7.184	.000			
	t1tot	1.735	.058	.483	30.170	.000	.633	.526	.436
	grade	2.528	.459	.080	5.513	.000	.093	.112	.080
	type	-17.930	.834	-.344	-21.495	.000	-.554	-.404	-.311

a. gband = 345

b. Dependent Variable: tot

Excluded Variables^{b,c}

Model	Beta In	t	Sig.	Partial Correlation	Collinearity Statistics
					Tolerance
1 type	-.344 ^a	-21.495	.000	-.404	.814

a. Predictors in the Model: (Constant), grade, t1tot

b. gband = 345

c. Dependent Variable: tot

gband = 678

Descriptive Statistics^a

	Mean	Std. Deviation	N
tot	34.88	24.394	1646
t1tot	36.26	7.576	1646
grade	6.92	.814	1646
type	.47	.499	1646

a. gband = 678

Correlations^a

		tot	t1tot	grade	type
Pearson Correlation	tot	1.000	.487	-.013	-.513
	t1tot	.487	1.000	-.006	-.372
	grade	-.013	-.006	1.000	.056
	type	-.513	-.372	.056	1.000
Sig. (1-tailed)	tot	.	.000	.296	.000
	t1tot	.000	.	.410	.000
	grade	.296	.410	.	.012
	type	.000	.000	.012	.
N	tot	1646	1646	1646	1646
	t1tot	1646	1646	1646	1646
	grade	1646	1646	1646	1646
	type	1646	1646	1646	1646

a. gband = 678

Variables Entered/Removed^{b,c}

Model	Variables Entered	Variables Removed	Method
1	grade, t1tot ^a		. Enter
2	type ^a		. Enter

a. All requested variables entered.

b. gband = 678

c. Dependent Variable: tot

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.487 ^a	.237	.237	21.314	.237	255.842	2	1643	.000
2	.605 ^b	.365	.364	19.449	.128	331.153	1	1642	.000

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = 678

ANOVA^{c,d}

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	232452.076	2	116226.038	255.842	.000 ^a
	Residual	746394.585	1643	454.288		
	Total	978846.661	1645			
2	Regression	357719.056	3	119239.685	315.220	.000 ^b
	Residual	621127.605	1642	378.275		
	Total	978846.661	1645			

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = 678

d. Dependent Variable: tot

Coefficients^{a,b}

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Correlations		
		B	Std. Error	Beta			Zero-order	Partial	Part
1	(Constant)	-19.819	5.167		-3.835	.000			
	t1tot	1.569	.069	.487	22.612	.000	.487	.487	.487
	grade	-.314	.645	-.010	-.486	.627	-.013	-.012	-.010
2	(Constant)	1.516	4.859		.312	.755			
	t1tot	1.106	.068	.344	16.216	.000	.487	.372	.319
	grade	.306	.590	.010	.519	.604	-.013	.013	.010
	type	-18.865	1.037	-.386	-18.198	.000	-.513	-.410	-.358

a. gband = 678

b. Dependent Variable: tot

Excluded Variables^{b,c}

Model	Beta In	t	Sig.	Partial Correlation	Collinearity Statistics
					Tolerance
1 type	-.386 ^a	-18.198	.000	-.410	.859

a. Predictors in the Model: (Constant), grade, t1tot

b. gband = 678

c. Dependent Variable: tot

gband = 910

Descriptive Statistics^a

	Mean	Std. Deviation	N
tot	37.74	27.818	465
t1tot	35.37	8.683	465
grade	10.00	.202	465
type	.55	.498	465

a. gband = 910

Correlations^a

		tot	t1tot	grade	type
Pearson Correlation	tot	1.000	.620	-.018	-.559
	t1tot	.620	1.000	.063	-.389
	grade	-.018	.063	1.000	.033
	type	-.559	-.389	.033	1.000
Sig. (1-tailed)	tot	.	.000	.349	.000
	t1tot	.000	.	.087	.000
	grade	.349	.087	.	.237
	type	.000	.000	.237	.
N	tot	465	465	465	465
	t1tot	465	465	465	465
	grade	465	465	465	465
	type	465	465	465	465

a. gband = 910

Variables Entered/Removed^{b,c}

Model	Variables Entered	Variables Removed	Method
1	grade, t1tot ^a		. Enter
2	type ^a		. Enter

a. All requested variables entered.

b. gband = 910

c. Dependent Variable: tot

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.623 ^a	.388	.386	21.805	.388	146.600	2	462	.000
2	.711 ^b	.505	.502	19.627	.117	109.188	1	461	.000

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = 910

ANOVA^{c,d}

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	139400.824	2	69700.412	146.600	.000 ^a
	Residual	219655.641	462	475.445		
	Total	359056.465	464			
2	Regression	181463.713	3	60487.904	157.016	.000 ^b
	Residual	177592.752	461	385.234		
	Total	359056.465	464			

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = 910

d. Dependent Variable: tot

Coefficients^{a,b}

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Correlations		
		B	Std. Error	Beta			Zero-order	Partial	Part
1	(Constant)	45.945	50.035		.918	.359			
	t1tot	1.999	.117	.624	17.116	.000	.620	.623	.623
	grade	-7.894	5.013	-.057	-1.575	.116	-.018	-.073	-.057
2	(Constant)	44.361	45.039		.985	.325			
	t1tot	1.532	.114	.478	13.403	.000	.620	.530	.439
	grade	-4.926	4.521	-.036	-1.090	.276	-.018	-.051	-.036
	type	-20.811	1.992	-.372	-10.449	.000	-.559	-.438	-.342

a. gband = 910

b. Dependent Variable: tot

Excluded Variables^{b,c}

Model	Beta In	t	Sig.	Partial Correlation	Collinearity Statistics
					Tolerance
1 type	-.372 ^a	-10.449	.000	-.438	.846

a. Predictors in the Model: (Constant), grade, t1tot

b. gband = 910

c. Dependent Variable: tot

Science Regression

gband = 345

Descriptive Statistics^a

	Mean	Std. Deviation	N
tot	67.83	31.650	590
t1tot	36.97	7.881	590
grade	4.97	.208	590
type	.43	.496	590

a. gband = 345

Correlations^a

		tot	t1tot	grade	type
Pearson Correlation	tot	1.000	.672	.133	-.593
	t1tot	.672	1.000	.103	-.369
	grade	.133	.103	1.000	.015
	type	-.593	-.369	.015	1.000
Sig. (1-tailed)	tot	.	.000	.001	.000
	t1tot	.000	.	.006	.000
	grade	.001	.006	.	.362
	type	.000	.000	.362	.
N	tot	590	590	590	590
	t1tot	590	590	590	590
	grade	590	590	590	590
	type	590	590	590	590

a. gband = 345

Variables Entered/Removed^{b,c}

Model	Variables Entered	Variables Removed	Method
1	grade, t1tot ^a		. Enter
2	type ^a		. Enter

a. All requested variables entered.

b. gband = 345

c. Dependent Variable: tot

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.675 ^a	.456	.454	23.390	.456	245.722	2	587	.000
2	.773 ^b	.597	.595	20.148	.141	205.110	1	586	.000

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = 345

ANOVA^{c,d}

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	268870.008	2	134435.004	245.722	.000 ^a
	Residual	321149.043	587	547.102		
	Total	590019.051	589			
2	Regression	352133.997	3	117377.999	289.146	.000 ^b
	Residual	237885.054	586	405.947		
	Total	590019.051	589			

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = 345

d. Dependent Variable: tot

Coefficients^{a,b}

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Correlations		
		B	Std. Error	Beta			Zero-order	Partial	Part
1	(Constant)	-79.818	23.126		-3.451	.001			
	t1tot	2.672	.123	.665	21.733	.000	.672	.668	.662
	grade	9.825	4.651	.065	2.113	.035	.133	.087	.064
2	(Constant)	-62.443	19.957		-3.129	.002			
	t1tot	2.063	.114	.514	18.082	.000	.672	.598	.474
	grade	13.094	4.013	.086	3.263	.001	.133	.134	.086
	type	-25.854	1.805	-.405	-14.322	.000	-.593	-.509	-.376

a. gband = 345

b. Dependent Variable: tot

Excluded Variables^{b,c}

Model	Beta In	t	Sig.	Partial Correlation	Collinearity Statistics
					Tolerance
1 type	-.405 ^a	-14.322	.000	-.509	.861

a. Predictors in the Model: (Constant), grade, t1tot

b. gband = 345

c. Dependent Variable: tot

gband = 678

Descriptive Statistics^a

	Mean	Std. Deviation	N
tot	52.40	30.175	504
t1tot	36.65	8.202	504
grade	7.87	.423	504
type	.51	.500	504

a. gband = 678

Correlations^a

		tot	t1tot	grade	type
Pearson Correlation	tot	1.000	.644	.097	-.451
	t1tot	.644	1.000	.189	-.349
	grade	.097	.189	1.000	-.142
	type	-.451	-.349	-.142	1.000
Sig. (1-tailed)	tot	.	.000	.015	.000
	t1tot	.000	.	.000	.000
	grade	.015	.000	.	.001
	type	.000	.000	.001	.
N	tot	504	504	504	504
	t1tot	504	504	504	504
	grade	504	504	504	504
	type	504	504	504	504

a. gband = 678

Variables Entered/Removed^{b,c}

Model	Variables Entered	Variables Removed	Method
1	grade, t1tot ^a		. Enter
2	type ^a		. Enter

a. All requested variables entered.

b. gband = 678

c. Dependent Variable: tot

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.645 ^a	.415	.413	23.116	.415	178.053	2	501	.000
2	.689 ^b	.475	.472	21.930	.060	56.685	1	500	.000

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = 678

ANOVA^{c,d}

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	190291.412	2	95145.706	178.053	.000 ^a
	Residual	267717.628	501	534.367		
	Total	458009.040	503			
2	Regression	217551.889	3	72517.296	150.790	.000 ^b
	Residual	240457.151	500	480.914		
	Total	458009.040	503			

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = 678

d. Dependent Variable: tot

Coefficients^{a,b}

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Correlations		
		B	Std. Error	Beta			Zero-order	Partial	Part
1	(Constant)	-20.788	19.251		-1.080	.281			
	t1tot	2.387	.128	.649	18.655	.000	.644	.640	.637
	grade	-1.817	2.483	-.025	-.732	.465	.097	-.033	-.025
2	(Constant)	10.663	18.734		.569	.569			
	t1tot	2.066	.129	.562	16.056	.000	.644	.583	.520
	grade	-3.288	2.364	-.046	-1.391	.165	.097	-.062	-.045
	type	-15.756	2.093	-.261	-7.529	.000	-.451	-.319	-.244

a. gband = 678

b. Dependent Variable: tot

Excluded Variables^{b,c}

Model	Beta In	t	Sig.	Partial Correlation	Collinearity Statistics
					Tolerance
1 type	-.261 ^a	-7.529	.000	-.319	.872

a. Predictors in the Model: (Constant), grade, t1tot

b. gband = 678

c. Dependent Variable: tot

gband = 910

Descriptive Statistics^a

	Mean	Std. Deviation	N
tot	47.56	30.895	449
t1tot	36.22	8.880	449
grade	10.00	.206	449
type	.56	.497	449

a. gband = 910

Correlations^a

		tot	t1tot	grade	type
Pearson Correlation	tot	1.000	.588	.012	-.614
	t1tot	.588	1.000	.072	-.324
	grade	.012	.072	1.000	.012
	type	-.614	-.324	.012	1.000
Sig. (1-tailed)	tot	.	.000	.402	.000
	t1tot	.000	.	.063	.000
	grade	.402	.063	.	.398
	type	.000	.000	.398	.
N	tot	449	449	449	449
	t1tot	449	449	449	449
	grade	449	449	449	449
	type	449	449	449	449

a. gband = 910

Variables Entered/Removed^{b,c}

Model	Variables Entered	Variables Removed	Method
1	grade, t1tot ^a		. Enter
2	type ^a		. Enter

a. All requested variables entered.

b. gband = 910

c. Dependent Variable: tot

Model Summary^c

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.589 ^a	.347	.344	25.019	.347	118.565	2	446	.000
2	.739 ^b	.547	.544	20.872	.199	195.813	1	445	.000

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = 910

ANOVA^{c,d}

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	148431.119	2	74215.560	118.565	.000 ^a
	Residual	279173.567	446	625.950		
	Total	427604.686	448			
2	Regression	233738.237	3	77912.746	178.840	.000 ^b
	Residual	193866.449	445	435.655		
	Total	427604.686	448			

a. Predictors: (Constant), grade, t1tot

b. Predictors: (Constant), grade, t1tot, type

c. gband = 910

d. Dependent Variable: tot

Coefficients^{a,b}

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Correlations		
		B	Std. Error	Beta			Zero-order	Partial	Part
1	(Constant)	19.516	57.404		.340	.734			
	t1tot	2.055	.133	.591	15.396	.000	.588	.589	.589
	grade	-4.638	5.755	-.031	-.806	.421	.012	-.038	-.031
2	(Constant)	30.041	47.896		.627	.531			
	t1tot	1.518	.118	.436	12.889	.000	.588	.521	.411
	grade	-2.096	4.805	-.014	-.436	.663	.012	-.021	-.014
	type	-29.382	2.100	-.472	-13.993	.000	-.614	-.553	-.447

a. gband = 910

b. Dependent Variable: tot

Excluded Variables^{b,c}

Model	Beta In	t	Sig.	Partial Correlation	Collinearity Statistics
					Tolerance
1 type	-.472 ^a	-13.993	.000	-.553	.894

a. Predictors in the Model: (Constant), grade, t1tot

b. gband = 910

c. Dependent Variable: tot