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Table A-1a : Coefficient Estimates for Mean Test Score Model in 1996 : Mathematics

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	87.2395 * (45.353)	79.7165 * (6.962)	86.4453 * (6.348)	73.2733 * (7.173)	112.2389 * (7.454)
age	-2.4197 * (-22.477)	-2.9808 * (-4.145)	-2.3728 * (-2.691)	-1.3418 * (-2.268)	-4.4888 * (-4.815)
female	-2.8018 * (-24.293)	-1.4168 (-1.669)	-2.1102 * (-1.994)	-1.1574 (-1.533)	-0.9741 * (-0.844)
attendance rate	0.3430 * (29.245)	0.3481 * (7.063)	0.2628 * (4.848)	0.3307 * (5.358)	0.3239 * (4.632)
English not spoken at home	-0.8184 (-0.696)	9.3368 * (2.342)	-11.9874 (-1.765)	-1.9161 * (-2.103)	-4.9692 * (-3.146)
disability	-12.6763 * (-63.071)	-13.3740 * (-9.963)	-15.9103 * (-9.301)	-7.9263 * (-5.08)	-11.6870 * (-5.239)
limited English proficiency	-7.1335 * (-2.964)	-21.6955 * (-4.427)	-13.0346 (-0.782)	-13.5316 * (-11.405)	-7.3874 * (-3.813)
gifted/talented	10.2418 * (50.183)	15.6848 * (6.163)	12.3509 * (2.937)	11.4613 * (8.843)	14.9468 * (4.657)
% Indian in school	0.0210 (1.120)	-0.2987 * (-2.987)	-0.2130 * (-7.038)	0.1295 (0.740)	0.0126 (0.082)
% Asian in school	-0.0262 (-1.128)	-0.5016 * (-6.292)	-0.3685 * (-2.859)	-0.1387 * (-2.694)	-0.3138 * (-2.691)
% Hispanic in school	0.1399 * (4.516)	0.4451 * (2.921)	-0.2927 (-1.077)	-0.2024 (-1.546)	0.0793 (0.506)
% Black in school	0.0643 * (4.370)	-0.2274 * (-4.376)	-0.1186 (-1.564)	-0.0474 (-0.819)	0.2442 * (2.596)
number of schools attended	-5.0611 * (-25.427)	-2.9486 * (-3.632)	-3.1920 * (-2.959)	-5.8217 * (-4.508)	-4.1104 * (-3.387)
free/reduced priced lunch	0.0165 * (2.779)	0.1401 * (2.662)	0.0536 (1.356)	0.0255 (0.564)	-0.1035 (-1.564)
school math top quintile	3.5961 * (20.780)	7.5610 * (3.446)	6.2971 * (2.717)	5.5040 * (4.019)	3.0425 (1.522)
school reading top quintile	1.1619 * (6.881)	0.8847 (0.422)	0.5983 (0.301)	0.3952 (0.313)	0.7459 (0.363)
school math bottom quintile	-4.4383 * (-18.512)	-2.1489 (-1.289)	-0.3599 (-0.206)	-2.5024 (-1.570)	-4.9039 * (-2.461)
school reading bottom quintile	-2.3019 * (-11.193)	-1.3147 (-0.868)	0.2371 (0.140)	-2.7602 * (-2.092)	-3.2517 * (-1.976)
adjusted R square	0.2201	0.3050	0.2879	0.4008	0.3342
F-statistics	770.654	37.716	20.428	51.679	20.425
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
mean	80.9659	59.6751	67.7034	74.7936	67.6798
number of observations	46358	1423	818	1289	659

*significant at 95% significance level
t-statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1996

Table A-1b : Coefficient Estimates for Mean Test Score Model in 1996 : Reading

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	74.4550 *	61.6132 *	86.8279 *	59.6771 *	104.2047 *
	(30.793)	(4.762)	(5.536)	(5.037)	(6.022)
age	-1.7230 *	-2.1221 *	-2.9826 *	-2.2007 *	-3.6378 *
	(-12.712)	(-2.625)	(-2.946)	(-3.212)	(-3.356)
female	1.4250 *	1.2535	3.5506 *	3.5898 *	2.4890
	(9.822)	(1.311)	(2.887)	(4.098)	(1.868)
attendance rate	0.2945 *	0.3680 *	0.2503 *	0.4829 *	0.2055 *
	(20.013)	(6.666)	(4.039)	(6.689)	(2.506)
English not spoken at home	-0.9555	6.2032	-14.4181	-4.4162 *	-3.5831
	(-0.601)	(1.383)	(-1.676)	(-4.143)	(-1.910)
disability	-14.1923 *	-13.4301 *	-14.5904 *	-5.6278 *	-7.0526 *
	(-56.143)	(-8.822)	(-7.435)	(-3.077)	(-2.658)
limited English proficiency	-20.3766 *	-16.8863 *	0.0000	-18.3599 *	-11.0299 *
	(-6.477)	(-3.096)	(0.000)	(-13.180)	(-4.796)
gifted/talented	12.8708 *	13.8549 *	14.7425 *	11.8170 *	16.8543 *
	(50.762)	(4.985)	(3.192)	(8.138)	(4.592)
% Indian in school	0.1068 *	-0.2841 *	-0.1773 *	-0.0734	0.4739 *
	(4.591)	(-2.422)	(-5.050)	(-0.366)	(2.761)
% Asian in school	-0.0050	-0.4103 *	-0.0669	-0.1179 *	-0.0198
	(-0.171)	(-4.640)	(-0.447)	(-1.980)	(-0.150)
% Hispanic in school	0.1843 *	0.3694 *	-0.1957	-0.1232	0.0982
	(4.734)	(2.177)	(-0.624)	(-0.819)	(0.536)
% Black in school	0.1182 *	-0.1433 *	-0.1561	-0.0674	0.3502 *
	(6.473)	(-2.340)	(-1.799)	(-0.998)	(3.287)
number of schools attended	-6.2163 *	-3.6539 *	-4.2964 *	-4.9300 *	-3.8930 *
	(-24.221)	(-3.843)	(-3.239)	(-3.120)	(-2.833)
free/reduced priced lunch	-0.0073	0.0574	0.0682	0.0780	-0.2360 *
	(-0.990)	(0.983)	(1.507)	(1.498)	(-3.112)
school math top quintile	1.5284 *	5.3778 *	5.3225	5.4924 *	-4.5232
	(6.673)	(2.087)	(1.696)	(3.328)	(-1.621)
school reading top quintile	3.4797 *	4.8323 *	2.2457	1.3809	5.5201 *
	(15.629)	(2.000)	(0.887)	(0.922)	(2.177)
school math bottom quintile	-1.1323 *	-0.4418	-0.6195	-0.1800	-4.9918 *
	(-3.644)	(-0.219)	(-0.300)	(-0.087)	(-2.125)
school reading bottom quintile	-5.8341 *	-3.1973	-0.3605	-6.0081 *	-5.0228 *
	(-22.443)	(-1.875)	(-0.181)	(-3.899)	(-2.708)
adjusted R square	0.1920	0.2780	0.2269	0.4452	0.3044
F-statistics	625.076	31.149	15.400	59.002	16.779
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
mean	73.7816	54.6734	62.0930	66.8008	61.0953
number of observations	44644	1332	786	1230	614

*significant at 95% significance level

t-statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1996

Table A-1c Coefficient Estimates for High Achiever Model in 1996 : Mathematics

Variables	Caucasian	African American	American Indians	Asian	Hispanic
intercept	-3.4432 * (57.357)	-6.5627 (1.364)	3.1559 (0.001)	0.9375 (0.091)	-11.1867 * (2.694)
age	-0.1418 * (39.128)	-0.3678 (1.535)	0.0745 (0.073)	-0.3938 * (6.607)	-0.6616 * (4.367)
female	-0.4735 * (384.766)	-1.0506 * (9.618)	-0.6223 * (3.881)	-0.2470 (2.081)	-0.6076 (2.892)
attendance rate	0.0518 * (258.794)	0.1130 * (8.075)	0.0539 (3.683)	0.0480 * (4.854)	0.1837 * (10.991)
English not spoken at home	0.2346 (0.945)	0.1727 (0.024)	-12.8417 (0.000)	-0.0281 (0.021)	-0.7509 (1.688)
disability	-0.9524 * (308.826)	-1.8005 (3.004)	-19.1702 (0.006)	0.1521 (0.187)	-0.7122 (0.844)
limited English proficiency	-1.3193 * (3.929)	-12.6638 (0.000)	-1.5684 (0.000)	-1.8332 * (11.417)	-0.5755 (0.380)
gifted/talented	1.7991 * (2458.680)	2.7366 * (42.178)	1.3079 * (3.955)	1.8738 * (71.494)	2.5591 * (18.551)
% Indian in school	0.0047 (1.159)	-0.1000 (1.186)	-0.0191 (3.407)	0.0085 (0.036)	0.0370 (0.330)
% Asian in school	-0.0084 (2.552)	-0.1398 * (8.052)	0.0072 (0.023)	-0.0474 (3.749)	-0.0512 (0.953)
% Hispanic in school	0.0432 * (46.414)	0.0702 (1.225)	-0.1187 (0.954)	0.0636 (2.437)	-0.0369 (0.274)
% Black in school	0.0182 * (28.933)	-0.0245 (1.411)	-0.0207 (0.462)	0.0137 (0.621)	0.0297 (0.694)
number of schools change	-0.9031 * (151.709)	-0.8648 (2.383)	-11.3175 (0.007)	-1.5365 * (4.699)	0.1835 (0.182)
free/reduced priced lunch	0.0012 (0.936)	0.0100 (0.251)	0.0001 (0.000)	-0.0036 (0.098)	0.0174 (0.774)
school math top quintile	0.5824 * (306.539)	0.6319 (1.211)	1.0758 (3.608)	0.7202 * (7.495)	1.3215 * (7.110)
school reading top quintile	0.1855 * (30.995)	-0.8607 (1.865)	-0.3069 (0.269)	-0.1322 (0.272)	-0.2272 (0.181)
school math bottom quintile	-0.5621 * (90.631)	0.1889 (0.110)	0.0802 (0.028)	-0.8898 (3.609)	-1.0915 (1.448)
school reading bottom quintile	-0.3370 * (50.291)	-0.7579 (2.074)	0.7840 (3.284)	-0.4151 (1.723)	-0.7564 (1.388)
concordant chi-square	71.2% 5366.981	89.7% 142.129	78.6% 55.877	80.2% 242.627	84.6% 83.024
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	46358	1423	818	1289	659

* significant at 95% significance level

chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1996

Table A-1d Coefficient Estimates of High Achiever Model in 1996 : Reading

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	-2.9652 * (39.675)	-17.1103 * (10.783)	-5.6555 (1.577)	-5.8415 (2.700)	5.9932 (1.260)
age	-0.0679 * (7.947)	0.4692 (2.762)	-0.2745 (1.139)	-0.2611 (2.402)	-0.6152 * (4.051)
female	0.2019 * (63.009)	0.3664 (1.197)	0.4694 (2.561)	0.4328 * (5.148)	-0.5341 (2.367)
attendance rate	0.0312 * (95.112)	0.0742 * (5.826)	0.0748 * (7.553)	0.0772 * (8.448)	0.0187 (0.383)
English not spoken at home	-0.1308 (0.193)	-11.3202 (0.001)	-12.8027 (0.000)	-0.5809 * (6.645)	0.5002 (1.291)
disability	-0.8787 * (214.547)	-11.3310 (0.009)	-1.1139 (2.243)	-0.0951 (0.051)	-12.7814 (0.002)
limited English proficiency	-24.9637 (0.000)	0.5305 (0.000)	0.0000 (0.000)	-13.5045 (0.005)	-13.017 (0.004)
gifted/talented	1.6796 * (2183.588)	2.3139 * (25.083)	1.4237 * (4.768)	1.6257 * (51.974)	1.726 * (8.526)
% Indian in school	0.0201 * (25.561)	-0.0989 (1.786)	-0.0095 (0.922)	-0.0048 (0.011)	0.0183 (0.143)
% Asian in school	-0.0093 (3.031)	-0.1187 * (7.797)	0.0231 (0.278)	-0.0013 (0.003)	-0.0101 (0.057)
% Hispanic in school	0.0270 * (15.831)	0.1621 * (12.648)	0.0260 (0.131)	0.0202 (0.244)	-0.0287 (0.181)
% Black in school	0.0214 * (44.913)	-0.0129 (0.407)	-0.0411 (1.932)	-0.0049 (0.080)	0.0533 * (4.523)
number of schools attended	-0.8673 * (114.291)	0.5090 (3.684)	-0.7006 (1.751)	-0.5025 (1.004)	-1.6912 (2.671)
free/reduced priced lunch	-0.0009 (0.464)	0.0004 (0.000)	0.0226 * (3.846)	0.0210 (2.980)	-0.00392 (0.040)
school math top quintile	0.1634 * (18.496)	0.6350 (1.207)	1.2421 * (4.382)	0.6460 * (5.134)	0.656 (1.472)
school reading top quintile	0.3784 * (105.938)	0.6021 (1.099)	-0.5035 (0.744)	0.4064 (2.295)	0.8229 (2.658)
school math bottom quintile	0.0191 (0.104)	0.6104 (0.951)	-0.5504 (1.191)	-0.5513 (1.010)	-0.2823 (0.130)
school reading bottom quintile	-0.6626 * (160.686)	-0.2411 (0.201)	0.0646 (0.019)	-0.8222 * (4.560)	-1.1641 (2.802)
concordant	68.5%	82.8%	74.3%	82.5%	85.9%
chi-square	3775.467	74.358	41.689	212.504	97.694
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	44644	614	786	1230	1332

* significant at 95% significance level

chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1996

Table A-1e Coefficient Estimates of Low Achiever Model in 1996 : Mathematics

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	-4.1921 * (101.771)	0.0601 (0.001)	-1.6724 (0.612)	-0.0554 (0.001)	-4.6652 (3.370)
age	0.4588 * (360.623)	0.2829 * (6.285)	0.3119 * (5.346)	0.2025 (3.507)	0.5304 * (12.044)
female	0.4370 * (274.114)	0.3061 * (5.562)	0.2938 (3.397)	0.3356 * (5.482)	0.055 (0.089)
attendance rate	-0.0468 * (376.812)	-0.0477 * (23.922)	-0.0423 * (18.382)	-0.0512 * (18.250)	-0.0468 * (12.643)
English not spoken at home	0.1201 (0.228)	-1.1800 * (4.354)	1.5348 (1.644)	0.3199 (3.560)	0.5347 * (4.957)
disability	1.5670 * (1829.857)	1.9650 * (39.692)	1.5702 * (28.237)	1.1591 * (17.759)	1.1758 * (10.039)
limited English proficiency	1.0647 * (5.286)	2.4927 * (8.529)	16.1622 (0.000)	1.6715 * (64.512)	0.587 (3.477)
gifted/talented	-2.6921 * (428.981)	-1.6670 * (14.592)	-1.9668 (3.421)	-2.0046 * (20.309)	-2.8568 * (7.203)
% Indian in school	-0.0058 (2.235)	0.0358 (3.142)	0.0210 * (18.905)	-0.0516 (1.491)	0.00922 (0.075)
% Asian in school	-0.0017 (0.130)	0.0471 * (12.716)	0.0411 (3.596)	0.0121 (1.326)	0.0266 (1.806)
% Hispanic in school	-0.0115 (2.958)	-0.0443 (3.356)	0.0335 (0.691)	-0.0146 (0.369)	0.0130 (0.230)
% Black in school	-0.0032 (1.232)	0.0076 (0.936)	0.0074 (0.400)	0.0059 (0.328)	-0.0369 * (6.181)
number of schools attended	0.6614 * (311.389)	0.3912 * (8.162)	0.5208 * (8.438)	0.6880 * (8.493)	0.7234 * (8.010)
free/reduced priced lunch	-0.0032 * (5.923)	-0.0092 (1.335)	-0.0051 (0.702)	0.0004 (0.002)	0.0171 (2.670)
school math top quintile	-0.6643 * (215.657)	-0.9478 * (9.042)	-1.1351 * (8.341)	-1.1813 * (13.759)	-0.3625 (1.264)
school reading top quintile	-0.2254 * (29.761)	-0.0246 (0.007)	-0.0468 (0.025)	-0.0600 (0.052)	-0.2362 (0.507)
school math bottom quintile	0.5888 * (155.933)	0.3135 (1.629)	-0.0336 (0.018)	0.4322 (2.456)	0.4745 (2.165)
school reading bottom quintile	0.3176 * (57.540)	0.4271 (3.716)	0.0549 (0.049)	0.1729 (0.546)	0.5153 * (3.881)
concordant	73.8%	77.3%	74.7%	81.8%	78.4%
chi-square	5807.552	315.311	179.070	413.171	182.769
significance Level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	46358	1423	818	1289	659

* significant at 95% significance level
chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1996

Table A-1f Coefficient Estimates of Low Achiever Model in 1996 : Reading

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	-2.5643 * (36.919)	-0.4776 (0.072)	-4.3600 * (4.132)	-2.3304 (1.276)	-4.5456 (3.206)
age	0.2705 * (121.651)	0.2929 * (7.277)	0.3969 * (8.311)	0.5199 * (19.009)	0.3705 * (5.655)
female	-0.1868 * (48.842)	-0.0660 (0.276)	-0.2947 (3.217)	-0.3337 * (4.799)	-0.2381 (1.560)
attendance rate	-0.0349 * (206.824)	-0.0486 * (31.246)	-0.0240 * (7.323)	-0.0716 * (29.011)	-0.0244 * (3.959)
English not spoken at home	0.0112 (0.002)	-0.8281 (1.835)	1.3662 (1.190)	0.5938 * (10.513)	0.5674 * (5.104)
disability	1.5518 * (1794.374)	1.4707 * (38.185)	1.7138 * (35.812)	0.7062 * (5.766)	0.6617 (3.248)
limited English proficiency	2.1533 * (19.494)	1.9085 * (5.959)	0.0000 (0.000)	2.0328 * (81.512)	1.0774 * (11.221)
gifted/talented	-2.4097 * (437.653)	-1.0208 * (5.479)	-1.8297 (2.994)	-1.5901 * (16.205)	-2.4811 * (5.520)
% Indian in school	-0.0139 * (12.050)	0.0246 (2.141)	0.0270 * (28.106)	-0.0132 (0.118)	-0.0937 * (4.642)
% Asian in school	-0.0038 (0.576)	0.0348 * (8.418)	0.0105 (0.293)	0.0051 (0.217)	-0.0094 (0.243)
% Hispanic in school	-0.0200 * (8.336)	-0.0283 (1.558)	0.0215 (0.279)	0.0084 (0.110)	-0.0372 (2.083)
% Black in school	-0.0103 * (11.657)	0.0087 (1.165)	0.0244 * (4.425)	0.0059 (0.275)	-0.0412 * (7.269)
number of schools attended	0.6643 * (294.305)	0.4534 * (11.998)	0.5398 * (8.465)	0.8192 * (9.368)	0.3581 (2.871)
free/reduced priced lunch	0.0017 (1.641)	-0.0060 (0.624)	-0.0134 * (4.467)	-0.0102 (1.233)	0.0337 * (9.939)
school math top quintile	-0.2782 * (35.502)	-0.7136 * (4.065)	-0.8423 (3.052)	-1.1822 * (11.183)	1.3878 * (9.941)
school reading top quintile	-0.4635 * (103.192)	-0.2622 (0.672)	-0.2277 (0.438)	0.0500 (0.031)	-0.9448 * (5.004)
school math bottom quintile	0.1695 * (11.122)	0.1976 (0.580)	-0.0343 (0.016)	-0.0905 (0.074)	0.7698 * (5.230)
school reading bottom quintile	0.7075 * (281.307)	0.4124 (3.621)	-0.0002 (0.000)	0.8199 * (11.007)	0.5396 * (4.438)
concordant	72.6%	76.0%	74.2%	84.2%	78.0%
chi-square	5061.741	289.802	170.275	456.557	157.759
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	44644	1332	786	1230	614

* significant at 95% significance level

chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1996

Table A-1g Coefficient Estimates 1996 : Pass, Mathematics

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	4.1921 * (101.771)	-0.0601 (0.001)	1.6724 (0.612)	0.0554 (0.001)	4.6652 (3.370)
age	-0.4588 * (360.623)	-0.2829 * (6.285)	-0.3119 * (5.346)	-0.2025 (3.507)	-0.5304 * (12.044)
female	-0.4370 * (274.114)	-0.3061 * (5.562)	-0.2938 (3.397)	-0.3356 * (5.482)	-0.0550 (0.089)
attendance rate	0.0468 * (376.812)	0.0477 * (23.922)	0.0423 * (18.382)	0.0512 * (18.250)	0.0468 * (12.643)
English not spoken at home	-0.1201 (0.228)	1.1800 * (4.354)	-1.5348 (1.644)	-0.3199 (3.560)	-0.5347 * (4.957)
disability	-1.5670 * (1829.857)	-1.9650 * (39.692)	-1.5702 * (28.237)	-1.1591 * (17.759)	-1.1758 * (10.039)
limited English proficiency	-1.0647 * (5.286)	-2.4927 * (8.529)	-16.1622 (0.000)	-1.6715 * (64.512)	-0.5870 (3.477)
gifted/talented	2.6921 * (428.981)	1.6670 * (14.592)	1.9668 (3.421)	2.0046 * (20.309)	2.8568 * (7.203)
% Indian in school	0.0058 (2.235)	-0.0358 (3.142)	-0.0210 * (18.905)	0.0516 (1.491)	-0.0092 (0.075)
% Asian in school	0.0017 (0.130)	-0.0471 * (12.716)	-0.0411 (3.596)	-0.0121 (1.326)	-0.0266 (1.806)
% Hispanic in school	0.0115 (2.958)	0.0443 (3.356)	-0.0335 (0.691)	0.0146 (0.369)	-0.0130 (0.230)
% Black in school	0.0032 (1.232)	-0.0076 (0.936)	-0.0074 (0.400)	-0.0059 (0.328)	0.0369 * (6.181)
number of schools attended	-0.6614 * (311.389)	-0.3912 * (8.162)	-0.5208 * (8.438)	-0.6880 * (8.493)	-0.7234 * (8.010)
free/reduced priced lunch	0.0032 * (5.923)	0.0092 (1.335)	0.0051 (0.702)	-0.0004 (0.002)	-0.0171 (2.670)
school math top quintile	0.6643 * (215.657)	0.9478 * (9.042)	1.1351 * (8.341)	1.1813 * (13.759)	0.3625 (1.264)
school reading top quintile	0.2254 * (29.761)	0.0246 (0.007)	0.0468 (0.025)	0.0600 (0.052)	0.2362 (0.507)
school math bottom quintile	-0.5888 * (155.933)	-0.3135 (1.629)	0.0336 (0.018)	-0.4322 (2.456)	-0.4745 (2.165)
school reading bottom quintile	-0.3176 * (57.540)	-0.4271 (3.716)	-0.0549 (0.049)	-0.1729 (0.546)	-0.5153 * (3.881)
concordant	73.8%	77.3%	74.7%	81.8%	78.4%
chi-square	5807.552	315.311	179.070	413.171	182.769
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	46358	1423	818	1289	659

* significant at 95% significance level

chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1996

Table A-1h Coefficient Estimates in 1996 : Pass, Reading

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	0.2359 (0.422)	-0.5231 (0.067)	4.3055 * (3.943)	-1.0466 (0.253)	5.0769 (3.610)
age	-0.1673 * (68.208)	-0.2569 * (4.455)	-0.4350 * (9.972)	-0.3006 * (6.788)	-0.4883 * (8.988)
female	0.1375 * (39.852)	0.0684 (0.241)	0.3452 * (4.631)	0.4106 * (8.464)	0.3308 (2.962)
attendance rate	0.0354 * (247.064)	0.0430 * (17.022)	0.0224 * (5.436)	0.0641 * (21.668)	0.0265 * (3.886)
English not spoken at home	-0.2465 (1.073)	0.2713 (0.233)	-0.7669 (0.374)	-0.4977 * (9.425)	-0.2568 (0.988)
disability	-1.3706 * (1390.246)	-1.3248 * (20.555)	-1.3024 * (16.821)	-0.3679 (1.602)	-0.8726 * (4.626)
limited English proficiency	-2.2772 * (16.642)	-2.5869 * (4.709)	0.0000 (0.000)	-2.2509 * (65.861)	-1.0848 * (7.797)
gifted/talented	2.1701 * (946.727)	1.6299 * (16.249)	1.4589 * (4.500)	1.8146 * (31.367)	2.5140 * (10.152)
% Indian in school	0.0121 * (12.746)	-0.0127 (0.553)	-0.0241 * (19.314)	-0.0222 (0.608)	0.0421 (3.583)
% Asian in school	0.0011 (0.060)	-0.0571 * (16.123)	-0.0289 (1.690)	-0.0386 * (8.159)	-0.0169 (0.626)
% Hispanic in school	0.0213 * (13.515)	0.0099 (0.136)	-0.0064 (0.025)	-0.0009 (0.001)	0.0114 (0.155)
% Black in school	0.0131 * (24.742)	-0.0090 (1.082)	-0.0177 (2.121)	-0.0100 (0.857)	0.0531 * (12.994)
number of schools attended	-0.6743 * (294.801)	-0.2819 (3.678)	-0.5392 * (6.952)	-0.6965 * (6.018)	-0.5146 (3.702)
free/reduced priced lunch	-0.0018 (2.571)	0.0075 (0.817)	0.0053 (0.700)	0.0205 * (5.179)	-0.0323 * (9.078)
school math top quintile	0.1821 * (25.829)	1.1291 * (11.383)	0.4063 (1.032)	0.9349 * (10.402)	-0.3037 (0.611)
school reading top quintile	0.4593 * (170.910)	0.3148 (1.043)	0.5140 (2.633)	0.2791 (1.249)	0.6209 (3.106)
school math bottom quintile	-0.0922 * (4.226)	-0.1236 (0.194)	0.0556 (0.046)	-0.0196 (0.004)	-0.4282 (1.531)
school reading bottom quintile	-0.6245 * (278.824)	-0.4013 (2.948)	0.1243 (0.247)	-0.6288 * (7.141)	-0.4681 (2.952)
concordant	69.3%	77.3%	71.5%	82.7%	77.4%
chi-square	5604.569	275.004	133.781	469.930	150.211
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	44644	1332	786	1230	614

* significant at 95% significance level
chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1996

Table A-2a : Coefficient Estimates for Mean Test Score Model in 1997 : Mathematics

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	77.1707 * (37.403)	83.2491 * (10.311)	81.5502 * (4.955)	83.5836 * (10.853)	82.3190 * (6.036)
age	-1.4059 * (-12.131)	-2.3134 * (-4.421)	-1.7912 (-1.642)	-0.5178 (-1.129)	-1.5231 (-1.904)
female	-3.3853 * (-27.555)	-2.7703 * (-4.316)	-3.1270 * (-2.441)	-2.7693 * (-4.678)	-3.1349 * (-3.046)
attendance rate	0.3466 * (27.928)	0.2407 * (7.496)	0.2143 * (3.402)	0.1659 * (4.026)	0.2189 * (3.365)
English not spoken at home	-0.3202 (-0.320)	5.0565 (0.068)	-5.9638 (-1.135)	-3.4281 * (-4.279)	-1.2614 (-0.937)
disability	-17.1817 * (-82.518)	-15.7082 * (-18.587)	-14.4067 * (-7.823)	-16.1213 * (-12.600)	-15.8045 * (-9.656)
limited English proficiency	-7.6226 * (-4.128)	-20.2313 * (-6.545)	21.9348 (1.401)	-11.1357 * (-14.231)	-11.7825 * (-7.179)
gifted/talented	9.2883 * (49.613)	7.3744 * (7.372)	5.6578 * (2.137)	7.3514 * (10.006)	11.7298 * (6.631)
% Indian in school	-0.0352 (-1.233)	0.0039 (0.059)	-0.0746 (-1.619)	0.5685 * (2.686)	0.0900 (0.411)
% Asian in school	-0.1558 * (-10.338)	-0.1844 * (-4.023)	-0.1307 (-1.200)	-0.1173 * (-2.402)	0.0033 (0.042)
% Hispanic in school	0.1037 * (3.415)	-0.0448 (-0.474)	-0.2258 (-0.978)	-0.1339 (-1.261)	-0.2044 * (-2.420)
% Black in school	0.0383 * (3.138)	-0.0311 (-1.130)	-0.0003 (-0.004)	0.0207 (0.579)	0.0049 (0.085)
number of schools attended	-6.1706 * (-20.396)	-3.2504 * (-4.783)	2.0832 (1.151)	-6.2340 * (-5.982)	-2.5801 (-1.626)
free/reduced priced lunch	-0.0600 * (-9.169)	-0.0434 (-1.501)	-0.0616 (-1.365)	-0.1248 * (-3.473)	-0.1432 * (-2.815)
school math top quintile	3.1644 * (16.182)	5.6983 * (3.888)	3.0138 (0.902)	3.4127 * (3.006)	7.0419 * (2.863)
school reading top quintile	1.5954 * (8.725)	3.0098 * (2.141)	1.1506 (0.416)	1.8565 (1.814)	-1.9776 (-0.902)
school math bottom quintile	-8.6092 * (-16.823)	-3.7623 * (-3.653)	-5.5945 * (-2.369)	-3.4132 * (-3.033)	-5.0921 * (-2.374)
school reading bottom quintile	1.6355 * (4.943)	-1.9442 (-0.820)	-3.1660 (-1.456)	-9.2392 * (-2.916)	1.9858 (0.786)
adjusted R square	0.3111	0.3467	0.2629	0.4651	0.4228
F-statistics	967.055	64.834	12.076	102.466	32.284
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
mean	81.93584	59.9018	69.59168	73.34055	67.5172
number of observations	36363	2046	529	1985	727

*significant at 95% significance level
t-statistics are in parentheses

Table A-2b : Coefficient Estimates for Mean Test Score Model in 1997 : Reading

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	64.9082 * (26.156)	63.9884 * (6.950)	67.7079 * (3.434)	70.8882 * (8.293)	74.7456 * (4.845)
age	-0.5541 * (-3.974)	-1.3661 * (-2.274)	-0.4757 (-0.366)	-0.0961 (-0.188)	-1.3496 (-1.508)
female	1.3214 * -8.9380	2.7056 * (3.667)	1.9718 (1.307)	3.3683 * (5.101)	3.1370 * (2.720)
attendance rate	0.2767 * (18.653)	0.2613 * (7.297)	0.1468 (1.872)	0.1332 * (2.954)	0.2182 * (2.810)
English not spoken at home	-1.6859 (-1.398)	3.2558 (1.157)	-9.7372 (-1.650)	-7.5442 * (-8.457)	-3.0174 * (-2.036)
disability	-18.8948 * (-75.181)	-17.1074 * (-17.892)	-17.7438 * (-7.946)	-14.7079 * (-10.623)	-14.5397 * (-7.767)
limited English proficiency	-14.0437 * (-6.323)	-21.5322 * (-6.034)	26.4969 (1.508)	-15.9176 * (-18.192)	-11.7761 * (-6.375)
gifted/talented	10.6171 * (46.756)	9.1865 * (7.928)	5.9196 * (1.983)	8.2143 * (9.999)	9.5416 * (4.781)
% Indian in school	-0.0042 (-0.106)	-0.0485 (-0.602)	0.0295 (0.490)	0.3043 (1.270)	0.1279 (0.530)
% Asian in school	-0.1438 * (-8.048)	-0.1985 * (-3.753)	-0.0685 (-0.545)	-0.0376 (-0.685)	0.1443 (1.698)
% Hispanic in school	0.2061 * (5.620)	-0.0987 (-0.915)	-0.2974 (-1.108)	-0.0532 (-0.452)	-0.2004 * (-2.171)
% Black in school	0.0707 * (4.930)	-0.0181 (-0.555)	0.0345 (0.537)	-0.0449 (-1.105)	0.0615 (0.973)
number of schools attended	-6.1068 * (-16.199)	-2.7823 * (-3.680)	-1.8782 (-0.878)	-4.8434 * (-4.046)	-3.1654 (-1.777)
free/reduced priced lunch	-0.0690 * (-8.818)	-0.0685 * (-2.008)	-0.1243 * (-2.345)	-0.0987 * (-2.443)	-0.2184 * (-3.769)
school math top quintile	1.9361 * (8.305)	2.2595 * (1.341)	6.2970 (1.665)	2.7355 * (2.150)	2.7628 (1.018)
school reading top quintile	2.9162 * (13.399)	4.7679 * (2.950)	-0.7819 (-0.248)	3.7357 * (3.272)	2.9835 (1.236)
school math bottom quintile	-4.6022 * (-10.723)	-1.2298 (-1.072)	-0.9234 (-0.320)	-3.4874 * (-2.914)	-1.7500 (-0.848)
school reading bottom quintile	-13.7012 * (-7.591)	-3.3531 (-1.094)	-13.4647 * (-2.752)	-3.0592 (-0.491)	-3.8959 (-0.606)
adjusted R square	0.2637	0.3158	0.2407	0.5059	0.3762
F-statistics	752.274	56.926	10.008	120.5	26.182
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
mean	77.11178	57.25764	64.9917	65.66599	64.0155
number of observations	35667	2061	484	1985	711

*significant at 95% significance level
t-statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1997

Table A-2c Coefficient Estimates for High Achiever Model in 1997 : Mathematics

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	-5.9939 * (121.011)	-7.8709 (2.141)	-6.6379 (1.365)	-8.8441 * (8.594)	-6.8302 (1.153)
age	-0.0163 (0.367)	-0.2013 (0.579)	0.1062 (0.097)	0.1475 (0.167)	0.0338 (0.011)
female	-0.5508 * (381.254)	-1.0606 * (11.666)	-1.1409 * (8.238)	-0.7476 * (21.522)	-0.2792 (0.562)
attendance rate	0.0609 * (246.158)	0.1132 * (8.935)	0.0458 (2.201)	0.0776 * (10.865)	0.0607 (2.057)
English not spoken at home	-0.0914 (0.158)	-0.4803 (0.201)	-8.2649 (0.015)	-0.4047 * (4.821)	-1.2541 (3.456)
disability	-1.7229 * (420.955)	-1.7114 * (5.219)	-1.6687 (2.562)	-1.3859 * (6.337)	-12.3304 (0.003)
limited English proficiency	-0.5223 (1.082)	-11.8544 (0.001)	27.2356 (0.000)	-0.7994 * (6.605)	0.0295 (0.001)
gifted/talented	1.7332 * (2295.278)	1.5518 * (21.358)	2.2154 * (15.630)	1.6000 * (75.141)	2.1645 * (27.531)
% Indian in school	0.0047 (0.368)	0.0360 (0.426)	0.0126 (0.892)	0.1466 (3.487)	-0.0793 (0.137)
% Asian in school	-0.0196 * (27.703)	0.0348 (1.916)	-0.0609 (1.867)	-0.0022 (0.023)	0.0526 (2.209)
% Hispanic in school	0.0179 * (5.946)	-0.1695 (2.353)	-0.0517 (0.304)	0.0459 (1.087)	-0.0182 (0.069)
% Black in school	0.0028 (0.772)	0.0206 (1.395)	0.0059 (0.080)	0.0219 (2.948)	-0.0346 (0.768)
number of schools attended	-0.8759 * (66.381)	-2.1705 * (4.608)	-0.2666 (0.169)	-1.2612 * (4.294)	-0.9095 (0.734)
free/reduced priced lunch	-0.0055 * (12.217)	-0.0387 * (4.144)	-0.0199 (2.142)	-0.0548 * (26.531)	-0.0454 (3.617)
school math top quintile	0.4733 * (128.470)	0.3535 (0.645)	1.0278 (1.771)	0.3326 (2.081)	-0.2861 (0.181)
school reading top quintile	0.2494 * (37.926)	0.4108 (0.804)	-0.7705 (1.130)	0.2377 (1.215)	0.1460 (0.055)
school math bottom quintile	-1.3826 * (36.649)	-13.0031 (0.005)	-0.1467 (0.025)	-0.5937 (1.058)	-11.1202 (0.003)
school reading bottom quintile	0.0662 (0.713)	3.1247 * (8.480)	-1.0513 (1.896)	-15.3502 (0.000)	1.9681 * (5.467)
concordant chi-square	73.6% 5015.008	88.5% 153.83	80.1% 57.72	85.2% 392.881	87.4% 90.817
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	36363	2046	529	1985	727

*significant at 95% significance level

chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1997

Table A-2d Coefficient Estimates for High Achiever Model in 1997 : Reading

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	-4.8800 * (81.557)	-8.4254 * (4.533)	-3.6419 (0.034)	-4.9560 (2.823)	-2.2411 (0.103)
age	0.0666 * (5.749)	0.1323 (0.357)	0.2397 (0.376)	0.2367 (2.754)	-0.1891 (0.260)
female	0.2360 * (66.496)	0.0100 (0.002)	-0.2914 (0.510)	0.4092 * (6.050)	1.0842 * (5.974)
attendance rate	0.0311 * (73.824)	-0.0608 * (6.647)	0.0621 (2.463)	0.0239 (1.625)	0.0289 (0.428)
English not spoken at home	-0.0265 * (0.013)	-0.8766 (0.706)	-7.9492 (0.013)	-1.2980 * (42.855)	-2.3317 * (4.729)
disability	-1.6277 * (308.873)	-13.3016 (0.006)	-1.3109 (1.553)	-2.6435 * (6.645)	-12.1287 (0.002)
limited English proficiency	-0.3045 (0.424)	-12.0519 (0.001)	28.8715 (0.000)	-2.0349 * (14.591)	-9.8557 (0.003)
gifted/talented	1.5713 * (1867.854)	1.8940 * (41.498)	1.3097 * (5.093)	1.3602 * (52.540)	1.7636 * (14.507)
% Indian in school	0.0151 (2.827)	-0.0277 (0.268)	-0.0719 (0.707)	0.1417 * (4.178)	-0.2178 (0.661)
% Asian in school	-0.0192 * (27.595)	-0.0044 (0.049)	-0.0786 (2.264)	0.0177 (1.517)	0.0796 * (5.136)
% Hispanic in school	0.0370 * (24.144)	-0.0493 (0.663)	0.0701 (0.532)	0.1023 * (9.365)	0.0439 (0.996)
% Black in school	0.0067 * (4.961)	-0.0042 (0.086)	0.0343 (2.546)	0.0090 (0.569)	0.0129 (0.136)
number of schools attended	-0.8347 * (55.542)	-1.0279 * (4.079)	-6.9457 (0.140)	-2.1542 * (4.466)	-0.2131 (0.065)
free/reduced priced lunch	-0.0039 * (5.775)	-0.0250 (3.005)	-0.0221 (1.028)	-0.0336 * (10.845)	-0.0703 * (8.018)
school math top quintile	0.2818 * (43.318)	0.3807 (0.980)	0.3257 (0.199)	-0.1064 (0.197)	-0.3999 (0.275)
school reading top quintile	0.3543 * (74.096)	0.1698 (0.186)	0.1367 (0.043)	0.8314 * (13.521)	-0.0720 (0.010)
school math bottom quintile	-0.6097 * (30.249)	-1.6692 (2.633)	-0.2856 (0.062)	-1.3488 * (4.314)	-0.0327 (0.001)
school reading bottom quintile	-16.7853 (0.000)	4.0641 * (4.982)	-4.0535 (0.027)	-11.5435 (0.000)	-14.4993 (0.001)
concordant	70.4%	86.5%	81.6%	86.0%	86.6%
chi-square	3532.993	177.594	52.104	396.488	76.833
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	35667	2061	484	1985	711

*significant at 95% significance level

chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1997

Table A-2e Coefficient Estimates for Low Achiever Model in 1997 : Mathematics

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	-2.4121 * (21.699)	-2.0279 (1.788)	-2.4187 (0.848)	-0.2820 (0.036)	0.9911 (0.159)
age	0.3387 * (122.479)	0.3335 * (12.333)	0.3254 (3.557)	-0.0644 (0.536)	0.1592 (1.224)
female	0.5584 * (271.968)	0.4586 * (17.362)	0.3572 (3.183)	0.3103 * (7.024)	0.4370 * (5.537)
attendance rate	-0.0577 * (395.373)	-0.0387 * (28.493)	-0.0289 * (7.073)	-0.0216 * (7.499)	-0.0524 * (15.763)
English not spoken at home	0.0414 (0.024)	-0.9274 * (5.316)	0.7693 (0.989)	0.5945 * (12.012)	0.0362 (0.025)
disability	2.2579 * (2830.162)	2.0456 * (91.020)	1.5242 * (25.054)	2.2358 * (62.241)	2.2050 * (40.131)
limited English proficiency	1.3127 * (10.429)	2.2015 * (13.176)	-13.8146 (0.000)	1.4856 * (116.316)	1.5418 * (26.440)
gifted/talented	-1.8709 * (406.472)	-0.8943 * (30.481)	-0.1686 (0.166)	-1.1071 * (20.428)	-1.5431 * (16.888)
% Indian in school	0.0075 (1.374)	0.0135 (0.906)	0.0189 * (6.357)	-0.0499 (1.502)	-0.0511 (0.215)
% Asian in school	0.0295 * (63.694)	0.0288 * (12.483)	0.0061 (0.138)	0.0217 * (4.961)	0.0225 (2.568)
% Hispanic in school	-0.0147 (3.758)	0.0101 (0.351)	0.0390 (1.141)	0.0298 (2.083)	0.0269 (2.512)
% Black in school	-0.0055 (3.653)	0.0086 (3.036)	0.0014 (0.024)	0.0049 (0.536)	0.0009 (0.008)
number of schools attended	0.9017 * (192.982)	0.5569 * (16.473)	-0.4508 (2.376)	0.8703 * (17.568)	0.3919 (1.771)
free/reduced priced lunch	0.0093 * (32.049)	0.0021 (0.160)	0.0017 (0.061)	0.0086 (1.465)	0.0087 (0.960)
school math top quintile	-0.7209 * (134.599)	-0.7702 * (10.539)	-0.6405 (1.226)	-0.8161 * (8.783)	-1.0350 * (5.103)
school reading top quintile	-0.3148 * (36.732)	-0.3457 (2.393)	-0.4159 (0.820)	-0.1352 (0.361)	0.1814 (0.230)
school math bottom quintile	1.1912 * (127.745)	0.6140 * (9.722)	0.8115 * (4.529)	0.0904 (0.175)	1.0479 * (5.905)
school reading bottom quintile	-0.4155 * (20.895)	-0.5490 (1.113)	0.1363 (0.170)	1.1882 (3.489)	-0.7895 (2.883)
concordant	79.0%	78.9%	75.0%	83.9%	82.0%
chi-square	6383.09	518.615	120.755	737.396	261.419
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	36363	2046	529	1985	727

*significant at 95% significance level

chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1997

Table A-2f Coefficient Estimates for Low Achiever Model in 1997 : Reading

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	-1.8243 * (12.675)	-0.5804 (0.182)	-1.5362 (0.314)	0.8749 (0.334)	2.2678 (0.853)
age	0.1827 * (36.987)	0.2078 * (5.779)	0.1504 (0.704)	-0.1187 (1.711)	-0.0597 * (1740.000)
female	-0.1954 * (35.829)	-0.3047 * (8.906)	-0.3024 (2.136)	-0.5462 * (21.956)	-0.4132 * (4.968)
attendance rate	-0.0356 * (156.932)	-0.0356 * (34.308)	-0.0177 (2.480)	-0.0160 * (4.246)	-0.0351 * (7.611)
English not spoken at home	0.2506 (0.958)	-0.0978 (0.066)	0.4398 (0.319)	0.8186 * (24.298)	0.2604 (1.360)
disability	2.1165 * (2652.532)	1.9559 * (123.670)	1.9014 * (30.679)	2.1726 * (51.848)	1.5296 * (25.431)
limited English proficiency	1.8328 * (22.309)	2.0128 * (12.527)	-13.9729 (0.000)	1.8465 * (161.320)	1.4247 * (24.345)
gifted/talented	-1.8581 * (397.432)	-0.9857 * (37.044)	-0.3987 (0.860)	-0.8860 * (33.811)	-1.1453 * (8.878)
% Indian in school	-0.0019 (0.062)	0.0401 * (3.989)	-0.0030 (0.126)	-0.0303 (0.456)	-0.0160 (0.200)
% Asian in school	0.0219 * (36.2724)	0.0215 * (7.635)	-0.0065 (0.148)	0.010 (1.073)	-0.0082 (0.339)
% Hispanic in school	-0.0294 * (15.234)	0.0236 (2.331)	0.0193 (0.287)	0.0359 (2.710)	0.0276 (2.561)
% Black in school	-0.0099 * (12.373)	-0.0001 (0.001)	0.0022 (0.065)	0.0126 (3.325)	-0.0175 (3.165)
number of schools attended	0.7544 * (123.697)	0.5119 * (19.443)	0.2182 (0.517)	0.6814 * (9.862)	0.4997 (2.983)
free/reduced priced lunch	0.0132 * (67.050)	0.0047 (0.005)	0.0095 (1.640)	0.0027 (0.134)	0.0228 * (5.963)
school math top quintile	-0.2496 * (18.382)	-0.4628 (3.702)	-0.6057 (1.025)	-0.8708 * (10.288)	-0.6590 (1.526)
school reading top quintile	-0.5565 * (112.061)	-0.4331 (3.608)	-0.1708 (0.137)	-0.4627 * (4.363)	-0.6357 (2.144)
school math bottom quintile	0.6123 * (64.362)	-0.0965 (0.346)	0.0511 (0.018)	0.1992 (0.896)	0.3792 (1.378)
school reading bottom quintile	2.1040 * (25.352)	0.1293 (0.058)	1.6260 * (5.328)	15.4004 (0.000)	0.7431 (0.437)
concordant	76.6%	77.4%	73.3%	85.3%	80.4%
chi-square	5534.647	505.938	94.946	850.659	225.497
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	35667	2061	484	1985	711

*significant at 95% significance level
chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1997

Table A-2g Coefficient Estimates in 1997 : Pass, Mathematics

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	0.7364 (2.624)	0.8737 (0.244)	1.1569 (0.190)	-0.7785 (0.264)	-1.3272 (0.249)
age	-0.2469 * (90.293)	-0.3312 * (9.391)	-0.2366 (1.895)	0.0475 (0.296)	-0.1328 (0.782)
female	-0.5645 * (398.549)	-0.5386 * (19.194)	-0.2907 (2.179)	-0.3228 * (8.407)	-0.6371 * (0.782)
attendance rate	0.0554 * (415.233)	0.0468 * (26.063)	0.0283 * (5.763)	0.0270 * (9.706)	0.0505 * (11.205)
English not spoken at home	0.1600 (0.463)	0.7149 (3.376)	-0.1917 (0.063)	-0.6930 * (20.705)	-0.0023 (0.000)
disability	-2.1110 * (2520.961)	-2.1816 * (58.446)	-1.4317 * (18.104)	-2.2070 * (53.179)	-2.1927 * (27.998)
limited English proficiency	-1.3162 * (12.193)	-1.7470 * (6.797)	14.0944 (0.000)	-1.1943 * (72.761)	-1.4294 * (17.933)
gifted/talented	2.0086 * (724.416)	1.0127 * (33.648)	0.9088 * (4.668)	1.0946 * (54.072)	2.0976 * (60.525)
% Indian in school	-0.0055 (-0.868)	-0.0148 (0.578)	-0.0131 (2.859)	0.0542 (1.842)	0.0764 (3.633)
% Asian in school	-0.0281 * (71.187)	-0.0303 * (10.799)	-0.0181 (1.141)	-0.0328 * (12.554)	0.0043 (0.086)
% Hispanic in school	0.0152 * (5.338)	0.0092 (0.238)	-0.0044 (0.014)	-0.0187 (0.781)	-0.0372 (3.533)
% Black in school	0.0034 (1.698)	-0.0041 (0.538)	-0.0005 (0.003)	-0.0018 (0.073)	-0.0017 (0.026)
number of schools attended	-0.9766 * (248.690)	-0.8042 * (21.555)	0.0701 (0.059)	-0.6534 * (93.439)	-0.4483 (1.922)
free/reduced priced lunch	-0.0080 * (31.862)	-0.0042 (0.467)	-0.0057 (0.680)	-0.0072 (1.148)	-0.0277 * (9.372)
school math top quintile	0.6227 * (160.388)	0.5951 * (6.427)	0.2873 (0.316)	0.9753 * (15.509)	1.0980 * (6.628)
school reading top quintile	0.2755 * (42.004)	0.4405 (3.749)	0.4327 (1.062)	0.2166 (1.160)	-0.5215 (1.995)
school math bottom quintile	-1.2435 * (138.100)	-1.0793 * (17.124)	-0.6555 (2.539)	-0.2173 (0.950)	-1.1604 * (4.891)
school reading bottom quintile	0.3823 * (24.541)	1.0142 (2.755)	-0.5008 (2.166)	-1.1501 (3.156)	0.7760 (2.497)
concordant chi-square	76.5% 7043.666	80.5% 455.923	74.4% 106.959	83.0% 741.212	82.4% 257.761
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of	36363	2046	529	1985	727

*significant at 95% significance level

chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1997

Table A-2h Coefficient Estimates in 1997 : Pass, Reading

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	-1.8382 * (19.467)	0.3401 (0.042)	0.3595 (0.015)	-2.5818 (2.278)	-0.9255 (0.128)
age	-0.0100 (0.185)	-0.3085 * (8.941)	-0.1205 (0.408)	0.1223 (1.570)	-0.0921 (0.386)
female	0.1585 * (41.767)	0.2089 (3.147)	0.1789 (0.721)	0.5313 * (20.497)	0.3475 (3.574)
attendance rate	0.0370 * (0.003)	0.0442 * (27.288)	0.0176 (1.804)	0.0227 * (5.196)	0.0250 (3.014)
English not spoken at home	-0.2063 (1.072)	0.1554 (0.161)	-0.4846 (0.319)	-1.0465 * (54.967)	-0.3886 (2.954)
disability	-1.8919 * (1811.501)	-1.6152 * (50.048)	-1.5626 * (13.200)	-1.7628 * (27.621)	-1.1280 * (10.265)
limited English proficiency	-1.4974 * (15.966)	-1.7710 * (5.941)	15.0580 (0.000)	-1.7543 * (83.531)	-1.2493 * (11.351)
gifted/talented	1.7732 * (995.052)	1.1039 * (43.453)	1.2579 * (8.366)	1.2828 * (65.465)	1.3324 * (16.759)
% Indian in school	0.0028 (0.182)	-0.0152 (0.668)	0.0054 (0.391)	0.0316 (0.414)	0.0222 (0.382)
% Asian in school	-0.0205 * (46.230)	-0.0180 * (4.201)	-0.0308 (-2.542)	-0.0205 * (4.333)	0.0315 * (4.945)
% Hispanic in school	0.0276 * (20.621)	-0.0056 (0.100)	-0.0144 (0.113)	-0.0010 (0.002)	-0.0342 (2.347)
% Black in school	0.0082 * (11.945)	-0.0046 (0.700)	-0.0006 (0.004)	-0.0034 (0.229)	-0.0068 (0.398)
number of schools attended	-0.8972 * (196.219)	-0.4974 * (10.673)	-0.3038 (0.812)	-0.4925 * (3.934)	-0.0999 (0.109)
free/reduced priced lunch	-0.0087 * (46.608)	-0.0104 (3.158)	-0.0096 (1.552)	-0.0127 (3.171)	-0.0226 * (6.080)
school math top quintile	0.3585 * (76.369)	-0.0404 (0.030)	1.4287 * (7.164)	0.7099 * (10.650)	0.1068 (0.072)
school reading top quintile	0.3722 * (100.859)	0.7144 * (10.377)	-0.5770 (1.765)	0.2756 (2.189)	0.6027 (2.933)
school math bottom quintile	-0.4813 * (50.342)	-0.3776 (3.241)	-0.4463 (0.961)	-0.3260 (1.736)	0.0127 (0.001)
school reading bottom quintile	-2.0079 * (12.942)	0.8645 (1.739)	-1.5351 (3.169)	-15.0734 (0.000)	-0.4521 (0.110)
concordant	71.7%	78.0%	72.7%	85.6%	78.1%
chi-square	5938.859	405.818	87.025	849.805	175.065
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	35667	2061	484	1985	711

*significant at 95% significance level

chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1997

Table A-3a Coefficient Estimates for Mean Test Score Model in 1998 : Mathematics

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	102.7262 * (64.931)	84.7384 * (9.370)	107.3267 * (8.716)	93.7139 * (12.547)	108.50329 * (9.128)
age	-1.6314 * (-15.493)	-2.7964 * (-4.804)	-2.1927 * (-2.580)	-1.3624 * (-2.882)	-2.9648 * (-3.830)
female	-3.3638 * (-29.742)	-2.4532 * (-3.455)	-5.8060 * (-5.487)	-4.2153 * (-6.999)	-4.8239 * (-4.883)
attendance rate	0.0903 * (14.315)	0.2747 * (7.706)	0.0165 (0.449)	0.1264 * (3.455)	0.1320 * (2.684)
English not spoken at home	-4.4009 * (-4.177)	1.6235 (0.547)	-7.6568 (-1.099)	-1.5096 (-1.814)	-4.4884 * (-3.244)
disability	-22.2515 * (-121.380)	-21.5861 * (-23.823)	-22.6708 * (-17.406)	-21.2463 * (-17.366)	-19.5155 * (-13.446)
limited English proficiency	-7.6569 * (-4.433)	-20.5315 * (-6.201)	-7.9515 (-0.571)	-15.1059 * (-18.930)	-9.5147 * (-6.305)
gifted/talented	9.1007 * (50.620)	11.3051 * (10.006)	13.6760 * (5.188)	9.7743 * (13.011)	12.5781 * (7.428)
% Indian in school	0.0405 * (2.447)	-0.0580 (-0.836)	-0.0762 * (-2.229)	0.2153 (1.153)	0.2719 (1.436)
% Asian in school	-0.1011 * (-6.673)	-0.1823 * (-4.506)	-0.1240 (-1.403)	-0.1907 * (-6.398)	-0.1756 * (-2.431)
% Hispanic in school	0.1037 * (4.284)	-0.1101 (-1.379)	0.0054 (0.034)	-0.0724 (-0.932)	-0.0791 (-1.121)
% Black in school	0.0590 * (4.625)	-0.1054 * (-3.666)	-0.0360 (-0.640)	-0.0676 (-1.843)	0.0221 (0.347)
number of schools attended	-4.9917 * (-26.043)	-3.4112 * (-5.512)	-1.4661 (-1.650)	-3.8018 * (-5.101)	-3.7886 * (-3.945)
free/reduced priced lunch	-0.0210 * (-4.531)	0.0665 * (3.607)	0.0149 (0.610)	0.0237 (1.360)	-0.0326 (-1.085)
school math top quintile	3.2932 * (20.602)	5.4434 * (2.950)	5.8288 * (2.544)	4.6174 * (4.107)	4.0420 * (2.456)
school reading top quintile	1.5002 * (9.472)	2.3492 (1.419)	3.3921 (1.594)	1.4638 (1.351)	2.5869 (1.633)
school math bottom quintile	-2.3563 * (-2.356)	-2.0580 (-1.014)	-4.3909 (-1.488)	-8.2790 * (-3.635)	5.7177 (0.915)
school reading bottom quintile	-7.2271 * (-7.359)	-1.8932 (-1.007)	-3.3313 (-1.091)	5.3538 * (2.408)	-9.3331 (-1.508)
adjusted R square	0.3234	0.3578	0.3377	0.4628	0.3754
F-statistics	1522.972	84.493	33.84	139.498	43.033
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
mean	81.6553	57.1729	66.0329	71.6043	64.8183
number of observations	54122	2549	1096	2734	1190

*significant at 95% significance level

t-statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1998

Table A-3b Coefficient Estimates for Mean Test Score Model in 1998 : Reading

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	86.4780 * (51.002)	72.5285 * (8.288)	75.1931 * (6.106)	81.3372 * (11.643)	97.7954 * (8.550)
age	-0.6286 * (-5.570)	-1.9422 * (-3.448)	-0.4752 (-0.559)	-0.6902 (-1.561)	-2.3106 * (-3.103)
female	0.0963 (0.795)	2.1078 * (3.068)	-0.5234 (-0.495)	0.0941 (0.167)	0.6113 (0.643)
attendance rate	0.0739 * (10.935)	0.2874 * (8.332)	0.0411 (1.122)	0.1129 * (3.300)	0.1236 * (2.612)
English not spoken at home	-4.2750 * (-3.786)	2.1071 (0.733)	-6.4266 (-0.923)	-3.4984 * (-4.495)	-5.2722 * (-3.961)
disability	-21.5070 * (-109.466)	-19.2846 * (-21.995)	-19.9328 * (-15.303)	-15.7884 * (-13.797)	-14.004999 * (-10.029)
limited English proficiency	-13.8025 * (-7.456)	-18.5574 * (-5.792)	-6.4037 (-0.460)	-16.9692 * (-22.736)	-12.4348 * (-8.563)
gifted/talented	9.3372 * (48.459)	8.8383 * (8.804)	14.2145 * (5.392)	8.9207 * (12.696)	11.5152 * (7.067)
% Indian in school	0.0887 * (5.003)	0.0143 (0.213)	-0.0663 (-1.941)	0.2018 (1.155)	0.3469 (1.904)
% Asian in school	-0.0408 * (-2.512)	-0.1572 * (-4.016)	-0.0354 (-0.401)	-0.0781 * (-2.803)	-0.0807 (-1.161)
% Hispanic in school	0.1235 * (4.760)	-0.0069 (-0.089)	-0.0810 (-0.516)	-0.1045 (-1.439)	-0.0607 (-0.894)
% Black in school	0.0559 * (4.092)	-0.0820 * (-2.947)	-0.0229 (-0.407)	-0.0576 (-1.679)	-0.0094 (-0.153)
free/reduced priced lunch	-0.0152 * (-3.056)	0.0225 (1.262)	0.0104 (0.425)	-0.0035 (-0.213)	-0.0479 (-1.656)
number of schools attended	-4.4986 * (-21.900)	-2.5390 * (-4.240)	0.4751 (0.535)	-2.8370 * (-4.070)	-3.6631 * (-3.964)
school math top quintile	1.6262 * (9.492)	1.3810 (0.774)	0.6805 (0.297)	3.5769 * (3.402)	0.0713 (0.045)
school reading top quintile	3.3917 * (19.982)	4.1257 * (2.576)	6.6817 * (3.139)	1.1738 (1.158)	4.7531 * (3.118)
school math bottom quintile	0.4047 (0.378)	-1.4016 (-0.713)	0.2277 (0.077)	-5.5073 * (-2.585)	-4.7872 (-0.796)
school reading bottom quintile	-9.8485 * (-9.357)	-2.5092 (-1.379)	-7.2546 * (-2.375)	2.8085 (1.351)	3.3010 (0.554)
adjusted R square	0.2825	0.3271	0.2795	0.471	0.3675
F-statistics	1253.279	73.859	25.982	144.11	41.64
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
mean	80.2256	61.4251	65.5589	69.7266	65.3046
number of observations	54122	2549	1096	2734	1190

*significant at 95% significant level

t-statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1998

Table A-3c Coefficient Estimates for High Achiever Model in 1998 : Mathematics

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	-1.7236 * (25.396)	-4.6170 (1.333)	0.9499 (0.074)	1.3066 (0.509)	-3.0320 (0.701)
age	-0.0086 (0.168)	-0.3002 (1.945)	-0.2163 (0.927)	-0.2825 * (6.984)	0.1183 (0.266)
female	-0.3641 * (271.669)	-0.5095 * (4.746)	-0.6145 * (5.762)	-0.3618 * (8.621)	-0.9394 * (12.144)
attendance rate	0.0169 * (96.170)	0.0759 * (8.395)	0.0131 (0.960)	0.0192 (3.204)	0.0063 (0.132)
English not spoken at home	-0.4882 * (4.240)	-0.9890 (0.863)	-12.3674 (0.000)	-0.3542 * (6.113)	-0.1277 (0.145)
disability	-2.0149 * (811.896)	-2.7163 * (7.182)	-2.3931 * (10.664)	-1.3553 * (8.176)	-2.4321 * (5.612)
limited English proficiency	-0.2951 (0.472)	-0.4013 (0.075)	-0.0711 (0.000)	-1.7576 * (53.398)	-2.1670 * (10.439)
gifted/talented	1.6212 * (2797.376)	1.7309 * (41.324)	2.1370 * (25.518)	1.5229 * (104.230)	2.6435 * (52.637)
% Indian in school	0.0039 (0.982)	-0.1251 (1.934)	-0.0218 (3.331)	0.0327 (0.810)	-0.0524 (0.470)
% Asian in school	-0.0182 * (29.980)	-0.0198 (2.368)	-0.0969 * (8.018)	-0.0238 * (11.489)	-0.0501 * (5.707)
% Hispanic in school	0.0085 (2.830)	-0.0288 (0.690)	0.0223 (0.363)	-0.0198 (0.600)	0.0275 (1.645)
% Black in school	0.0063 * (5.005)	-0.0227 (3.635)	0.0125 (0.712)	-0.0102 (1.305)	0.0286 (1.895)
number of schools attended	-0.9801 * (215.338)	-1.0366 * (7.057)	-0.8888 (3.543)	-0.5566 * (4.808)	-1.2080 * (4.326)
free/reduced priced lunch	-0.0028 * (8.086)	0.0203 * (5.653)	-0.00128 (0.028)	0.0060 (1.369)	-0.0054 (0.246)
school math top quintile	0.3720 * (152.051)	0.4805 (1.116)	1.1797 * (8.511)	0.5149 * (7.341)	0.5461 (2.031)
school reading top quintile	0.2015 * (45.724)	-0.0103 (0.001)	0.1306 (0.103)	0.2572 (1.954)	0.2477 (0.450)
school math bottom quintile	-0.0810 (0.116)	0.2243 (0.100)	0.8417 (0.518)	-0.7291 (1.513)	-11.2976 (0.003)
school reading bottom quintile	-1.1662 * (23.025)	-0.5226 (0.587)	-1.0598 (0.794)	0.1458 (0.060)	10.1163 (0.002)
concordant chi-square	71.5% 6741.634	83.7% 153.134	82.0% 114.863	83.5% 557.600	86.8% 171.540
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	54122	2549	1096	2734	1190

*significant at 95% significance level
chi-square statistics are in parentheses

Table A-3d Coefficient Estimates for High Achiever Model in 1998 : Reading

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	-2.7906 * (64.770)	-6.7326 (3.560)	0.5113 (0.021)	-0.0951 (0.002)	-3.4722 (0.734)
age	0.0538 * (6.177)	-0.1450 (0.539)	-0.1622 (0.465)	-0.1182 (0.929)	-0.0020 (0.000)
female	0.1457 * (41.166)	0.2968 (1.766)	0.0453 (0.028)	-0.0035 (0.001)	-0.0804 (0.089)
attendance rate	0.0118 * (49.923)	0.0708 * (9.918)	-0.0044 (0.186)	0.0031 (1.101)	0.0227 (1.078)
English not spoken at home	-0.5339 * (4.627)	-0.1028 (0.018)	-12.9329 (0.000)	-0.6215 * (13.798)	-0.8529 * (5.101)
disability	-1.8481 * (626.173)	-2.8520 * (7.953)	-2.7827 * (7.487)	-1.8488 * (6.456)	-1.3649 (3.364)
limited English proficiency	-1.0274 (3.226)	-1.4712 (1.360)	0.5491 (0.000)	-2.0337 * (33.917)	-12.8186 (0.006)
gifted/talented	1.4141 * (2175.106)	1.2300 * (21.847)	1.9928 * (22.997)	1.4070 * (75.036)	2.4418 * (48.093)
% Indian in school	0.0106 * (7.959)	0.0044 (0.032)	-0.0009 (0.006)	0.0537 (1.744)	-0.0514 (0.467)
% Asian in school	-0.0106 * (10.441)	-0.0208 (2.585)	0.0093 (0.122)	-0.0148 (3.604)	-0.0658 * (7.862)
% Hispanic in school	0.0073 (2.004)	-0.0092 (0.119)	0.0111 (0.038)	0.0069 (0.059)	0.0025 (0.010)
% Black in school	0.0039 (1.910)	-0.0132 (1.628)	-0.0183 (0.909)	-0.0106 (0.981)	0.0390 (3.607)
number of schools attended	-0.7842 * (145.659)	-0.7954 * (5.891)	-0.4227 (1.181)	-0.6966 * (4.420)	-0.5742 (1.703)
free/reduced priced lunch	0.0021 * (4.310)	0.0128 (2.773)	0.0066 (0.761)	0.0088 (2.195)	-0.0120 (1.134)
school math top quintile	0.1768 * (31.835)	0.1851 (0.193)	-0.7865 (1.968)	0.4539 * (4.530)	0.1503 (0.143)
school reading top quintile	0.4039 * (173.941)	0.2287 (0.323)	0.9548 * (4.931)	0.5809 * (7.807)	-0.1602 (0.177)
school math bottom quintile	0.0712 (0.100)	-1.2655 (1.419)	-0.4029 (0.199)	0.5520 (0.487)	0.6769 (0.231)
school reading bottom quintile	-1.0560 * (21.180)	0.3729 (0.125)	-1.0456 (1.123)	-1.0819 (1.882)	-1.2642 (0.782)
concordant	69.3%	84.9%	79.6%	84.1%	86.5%
chi-square	5036.579	140.51	79.715	432.607	153.287
significance level	0.0001	0.0001	0.0001	0.001	0.0001
number of observations	54122	2549	1096	2734	1190

*significant at 95% significance level

chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1998

Table A-3e Coefficient Estimates for Low Achiever Model in 1998 : Mathematics

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	-6.2802 * (290.179)	-1.2084 (0.835)	-5.4913 * (10.105)	-2.0976 (3.080)	-3.3983 * (4.262)
age	0.3242 * (165.641)	0.2904 * (12.353)	0.3282 * (7.699)	0.0980 (1.636)	0.2383 * (4.881)
female	0.5998 * (436.164)	0.1813 (3.515)	0.6169 * (17.677)	0.5134 * (25.732)	0.6204 * (19.970)
attendance rate	-0.0120 * (93.555)	-0.0392 * (40.923)	-0.0051 (0.994)	-0.0187 * (10.957)	-0.0138 * (4.143)
English not spoken at home	0.7634 * (12.140)	-0.3926 (1.081)	1.6945 (2.161)	0.3190 * (4.238)	0.5028 * (7.592)
disability	2.4806 * (5413.022)	2.1595 * (152.324)	2.2326 * (118.140)	2.5654 * (117.311)	1.8339 * (60.514)
limited English proficiency	0.7584 * (5.583)	2.4565 * (24.688)	15.9156 (0.000)	1.5941 * (164.877)	0.8986 * (19.754)
gifted/talented	-1.8637 * (496.580)	-1.1202 * (53.249)	-1.8271 * (13.609)	-1.0009 * (55.026)	-1.3279 * (24.871)
% Indian in school	-0.0078 * (4.979)	0.0051 (0.301)	0.0095 * (3.915)	0.0044 (0.020)	-0.0330 (1.804)
% Asian in school	0.0166 * (21.692)	0.0226 * (16.259)	0.0248 * (3.959)	0.0175 * (12.515)	0.0118 (1.232)
% Hispanic in school	-0.0097 (2.967)	0.0206 (3.493)	-0.0162 (0.535)	0.0096 (0.651)	0.0153 (2.102)
% Black in school	-0.0011 * (14.699)	0.0149 * (13.889)	0.0059 (0.568)	0.0088 (2.267)	0.0013 (0.020)
number of schools attended	0.6714 * (317.087)	0.4471 * (22.878)	0.2547 (3.747)	0.4478 * (14.026)	0.3431 * (6.111)
free/reduced priced lunch	0.0030 * (8.020)	-0.0085 * (9.825)	0.0000 (0.000)	-0.0068 * (6.019)	-0.0020 (0.209)
school math top quintile	-0.5989 * (197.549)	-0.5141 * (4.421)	-0.7566 * (4.899)	-0.5273 * (6.244)	-0.5334 * (5.340)
school reading top quintile	-0.2969 * (50.678)	-0.2138 (0.971)	-0.4443 (2.041)	-0.3991 * (4.031)	-0.2812 (1.658)
school math bottom quintile	0.5432 * (6.770)	0.1870 (0.438)	0.7882 * (4.163)	1.3127 * (16.018)	-0.3130 (0.136)
school reading bottom quintile	0.7241 * (12.873)	0.0849 (0.102)	-0.3111 (0.595)	-1.1221 * (12.459)	0.7229 (0.739)
concordant	79.2%	79.3%	78.7%	83.7%	78.3%
chi-square	9683.482	683.652	302.544	1003.784	325.935
significance level	0.0001	0.0001	0.0001	0.0001	0.001
number of observations	54122	2549	1096	2734	1190

*significant at 95% significance level
chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1998

Table A-3f Coefficient Estimates for Low Achiever Model in 1998 : Reading

Variables	Caucasian	African American	American Indians	Asian	Hispanic
intercept	-3.7660 * (107.365)	0.1159 (0.009)	-1.6917 (1.059)	-1.8639 (2.375)	-4.8297 * (8.449)
age	0.1545 * (38.984)	0.1523 * (3.984)	0.0834 (0.543)	0.1067 (1.896)	0.3330 * (9.203)
female	0.0488 (3.127)	-0.1521 (2.753)	0.2405 (2.877)	-0.0041 (0.002)	-0.0252 (0.033)
attendance rate	-0.0085 * (44.095)	-0.0358 * (47.306)	-0.0082 (2.817)	-0.0185 * (10.352)	-0.0114 (2.979)
English not spoken at home	0.4909 * (4.630)	-0.6187 (2.235)	2.1070 (3.469)	0.3833 * (6.300)	0.6668 * (12.807)
disability	2.3330 * (5189.228)	2.2517 * (23.169)	1.7437 * (96.510)	1.7418 * (64.596)	1.7437 * (59.989)
limited English proficiency	1.6662 * (27.084)	-0.6187 (2.235)	15.7765 (0.000)	1.9374 * (235.155)	1.2058 * (35.640)
gifted/talented	-1.7156 * (457.592)	-0.8023 * (28.481)	-1.5405 * (9.325)	-1.1646 * (72.442)	-0.9017 * (11.508)
% Indian in school	-0.0147 * (16.898)	0.0002 (0.000)	0.0106 * (5.534)	-0.0376 (1.374)	-0.0369 (2.120)
% Asian in school	0.0099 * (7.852)	0.0114 * (4.636)	0.0042 (0.128)	0.0069 (1.907)	-0.0071 (0.444)
% Hispanic in school	-0.0095 (2.967)	0.0091 (0.806)	0.0143 (0.499)	0.0112 (0.835)	0.0056 (0.278)
% Black in school	-0.0106 * (13.356)	0.0096 * (6.603)	0.0041 (0.299)	0.0155 * (7.328)	0.0018 (0.039)
number of schools attended	0.4950 * (176.800)	0.2808 * (11.701)	0.0724 (0.377)	0.3671 * (9.062)	0.2943 * (4.834)
free/reduced priced lunch	0.0029 * (7.630)	-0.0012 (0.254)	-0.0002 (0.002)	-0.0016 (0.295)	0.0011 (0.067)
school math top quintile	-0.2828 * (47.948)	-0.1504 (0.360)	0.0349 (0.011)	-0.5157 * (6.202)	-0.1547 (0.421)
school reading top quintile	-0.5801 * (191.957)	-0.4028 (3.343)	-0.9605 * (8.718)	-0.2464 (1.604)	-0.5220 * (5.107)
school math bottom quintile	-0.2484 (1.314)	0.0443 (0.029)	-0.2301 (0.372)	0.1183 (0.117)	0.1484 (0.032)
school reading bottom quintile	1.3822 * (43.766)	0.3180 (1.711)	0.5533 (2.016)	0.0788 (0.056)	0.3324 (0.164)
concordant	77.0%	77.5%	75.1%	84.7%	79.9%
chi-square	8654.455	641.595	220.301	1056.753	351.097
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	54122	2549	1096	2734	11990

*significant at 95% significance level

chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1998

Table A-3g Coefficient Estimates in 1998 : Pass, Mathematics

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	4.2591 * (182.785)	0.1450 (0.010)	6.5595 * (13.540)	0.4347 (0.131)	4.4378 * (6.525)
age	-0.2270 * (113.338)	-0.2419 * (7.462)	-0.3943 * (10.608)	-0.0377 (0.245)	-0.3217 * (8.007)
female	-0.5549 * (549.835)	-0.2688 * (6.885)	-0.7399 * (25.604)	-0.5628 * (33.039)	-0.5558 * (15.656)
attendance rate	0.0117 * (107.333)	0.0403 * (32.419)	0.0012 (0.052)	0.0209 * (12.526)	0.0132 (3.236)
English not spoken at home	-0.5818 * (8.383)	-0.0639 (0.027)	-15.6843 (0.000)	-0.2245 (2.875)	-0.3994 * (4.826)
disability	-2.3032 * (4793.400)	-2.4133 * (109.999)	-2.1862 * (89.969)	-2.2227 * (77.585)	-1.7025 * (42.309)
limited English proficiency	-0.6912 * (5.148)	-1.8288 * (11.709)	-1.2726 (0.000)	-1.6461 * (188.364)	-1.0273 * (22.415)
gifted/talented	1.9701 * (897.071)	1.1137 * (51.407)	1.4430 * (12.833)	1.2215 * (80.492)	1.3246 * (24.527)
% Indian in school	0.0084 * (7.354)	-0.0012 (0.015)	-0.0105 * (4.405)	0.0191 (0.414)	-0.0507 (1.849)
% Asian in school	-0.0182 * (31.555)	-0.0231 * (14.966)	-0.0259 (3.799)	-0.0229 * (21.366)	-0.0264 * (5.281)
% Hispanic in school	0.0165 * (11.275)	-0.0200 (2.730)	0.0247 (1.214)	-0.0053 (0.181)	-0.0137 (1.343)
% Black in school	0.0089 * (11.781)	-0.0127 * (8.699)	-0.0058 (0.512)	-0.0061 (1.180)	0.0155 (2.470)
number of schools attended	-0.7179 * (393.181)	-0.5682 * (27.823)	-0.5371 * (12.293)	-0.5355 * (17.376)	-0.5574 * (11.364)
free/reduced priced lunch	-0.0022 * (5.675)	0.0081 * (7.198)	-0.0008 (0.051)	0.0040 (1.825)	-0.0034 (0.505)
school math top quintile	0.6007 * (297.846)	0.3641 (2.289)	0.8163 * (6.557)	0.4897 * (7.284)	0.4026 (3.270)
school reading top quintile	0.3017 * (78.028)	0.2205 (1.015)	0.4930 (2.812)	0.4479 * (6.710)	0.2345 (1.230)
school math bottom quintile	-0.3830 * (3.966)	-0.0266 (0.008)	-0.1394 (0.121)	-0.8232 * (6.049)	1.0478 (1.382)
school reading bottom quintile	-0.8324 * (20.009)	-0.3656 (1.644)	-0.1646 (0.155)	0.5757 (3.135)	-1.5461 (3.047)
concordant	76.4%	79.4%	78.2%	83.7%	78.7%
chi-square	10527.996	593.742	283.839	1061.389	317.616
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	54122	2549	1096	2734	1190

*significant at 95% significance level
chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1998

Table A-3h Coefficient Estimates in 1998 : Pass, Reading

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	1.3683 * (21.031)	-1.9793 (2.163)	2.0934 (1.520)	-0.5423 (0.189)	2.5826 (2.041)
age	-0.0366 (3.318)	-0.1442 (3.038)	-0.1219 (1.101)	0.0302 (0.147)	-0.2856 * (5.927)
female	-0.0243 (1.239)	0.2231 * (5.280)	-0.2813 * (4.013)	0.0165 (0.028)	-0.0254 (0.032)
attendance rate	0.0082 * (54.632)	0.0462 * (48.981)	-0.0003 (0.004)	0.0186 * (9.184)	0.0209 * (7.073)
English not spoken at home	-0.4438 * (5.148)	0.1320 (0.128)	-1.2055 (1.136)	-0.5335 * (17.672)	-0.5618 * (9.571)
disability	-2.1160 * (4175.986)	-1.9604 * (119.635)	-1.7239 * (66.395)	-1.6847 * (47.243)	-1.7099 * (40.901)
limited English proficiency	-1.3235 * (19.105)	-1.6859 * (13.280)	-15.4076 (0.000)	-2.1216 * (278.820)	-1.4519 * (40.605)
gifted/talented	1.7346 * (935.381)	0.9914 * (45.265)	1.4905 * (15.685)	1.1290 * (68.464)	1.4170 * (26.467)
% Indian in school	0.0126 * (17.498)	0.0083 (0.841)	-0.0010 * (3.963)	0.0012 (0.002)	0.0459 (3.403)
% Asian in school	-0.0108 * (12.000)	-0.0128 * (5.246)	-0.0184 (1.993)	-0.0122 * (5.761)	0.0035 (0.097)
% Hispanic in school	0.0238 * (25.547)	-0.0125 (1.273)	-0.0154 (0.419)	-0.0029 (0.047)	-0.0105 (0.821)
% Black in school	0.0137 * (29.744)	-0.0102 * (6.400)	-0.0068 (0.746)	-0.0084 (2.164)	-0.0045 (0.204)
number of schools attended	-0.6231 * (313.613)	-0.3958 * (17.171)	-0.0488 (0.144)	-0.5841 * (17.469)	-0.4190 * (7.044)
free/reduced priced lunch	-0.0019 * (4.797)	0.0035 (1.709)	-0.0001 (0.001)	0.0023 (0.544)	0.0047 (0.972)
school math top quintile	0.2571 * (65.445)	0.2017 (0.735)	0.5330 (3.236)	0.4193 * (5.488)	-0.0281 (0.015)
school reading top quintile	0.5619 * (302.552)	0.4622 * (4.798)	0.4558 (2.718)	0.2052 (1.449)	0.7222 * (10.825)
school math bottom quintile	-0.1397 (0.523)	-0.4258 (2.049)	0.2336 (0.326)	-0.5021 (2.223)	-0.5869 (0.465)
school reading bottom quintile	-1.1051 * (34.833)	0.0015 (0.000)	-0.7385 (3.022)	0.3305 (1.026)	0.0331 (0.002)
concordant	74.2%	78.3%	74.2%	84.8%	80.9%
chi-square	9347.513	600.043	203.052	1152.206	370.645
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	54122	2549	1096	2734	1190

*significant at 95% significance level

chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1998

Table A-4a Coefficient Estimates for Mean Test Score Model in 1999 : Mathematics

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	91.2437 * (55.715)	101.6164 * (13.543)	65.4246 * (5.295)	79.5571 * (11.415)	69.4178 * (6.079)
age	-1.0609 * (-9.898)	-3.4886 * (-6.804)	0.1883 (0.219)	-1.0557 * (-2.366)	-1.5281 * (-2.104)
female	-3.2053 * (-28.182)	-2.9916 * (-4.724)	-4.3578 * (-4.213)	-2.9042 * (-5.252)	-5.3206 * (-5.698)
attendance rate	0.1327 * (19.974)	0.2003 * (7.291)	0.1310 * (3.508)	0.2192 * (6.586)	0.3027 * (5.830)
English not spoken at home	0.2327 (0.232)	1.6211 (0.716)	-7.9483 (-1.388)	-0.0057 (-0.007)	-3.8077 * (-3.015)
disability	-21.9613 * (-118.279)	-21.2327 * (-26.727)	-19.4875 * (-15.612)	-22.1089 * (-19.783)	-20.9067 * (-16.470)
limited English proficiency	-13.4446 * (-8.357)	-17.4805 * (-6.829)	24.4569 (1.343)	-16.0677 * (-22.035)	-8.7968 * (-6.321)
gifted/talented	9.2408 * (52.252)	15.1234 * (11.671)	15.0325 * (5.365)	10.0612 * (12.240)	16.2705 * (7.020)
% Indian in school	-0.0196 (-1.180)	0.0216 (0.338)	-0.0421 (-1.429)	0.1565 (1.229)	0.2881 (1.578)
% Asian in school	-0.0743 * (-5.254)	-0.0771 (-1.891)	-0.1354 (-1.757)	-0.0781 * (-2.156)	-0.0174 (-0.267)
% Hispanic in school	0.0360 (1.637)	0.0286 (0.384)	0.1730 (1.094)	0.1839 * (2.133)	0.0053 (0.077)
% Black in school	0.0413 * (3.597)	-0.0318 (-1.163)	0.0199 (0.416)	-0.0870 * (-2.741)	0.0423 (0.852)
number of schools attended	-5.3410 * (-30.869)	-2.4114 * (-5.190)	-3.6561 * (-4.574)	-3.0375 * (-5.000)	-3.3760 * (-3.810)
free/reduced priced lunch	-0.0209 * (-4.515)	-0.0724 * (-2.739)	-0.0375 (-1.134)	0.0104 (0.380)	-0.0215 (-0.515)
school math top quintile	3.4777 * (18.868)	4.8420 * (2.186)	7.6543 * (2.980)	3.1510 * (2.160)	3.7693 (1.704)
school reading top quintile	0.7945 * (4.307)	-1.4036 (-0.619)	2.0485 (0.804)	0.2875 (0.196)	4.8229 * (2.145)
school math bottom quintile	-8.2716 * (-10.278)	-3.6089 * (-2.214)	-8.2550 (-1.819)	-3.0349 (-1.824)	-9.8758 * (-3.448)
school reading bottom quintile	-2.5239 * (-3.605)	-0.9069 (-0.639)	-3.1186 (-0.684)	-1.8251 (-1.506)	1.4083 (0.602)
adjusted R square	0.3240	0.0363	0.3093	0.4537	0.3894
F-statistics	1580.861	105.044	31.296	141.547	51.385
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
mean	81.4652	56.9318	64.6714	73.1109	62.8753
number of observations	56050	3104	1151	2878	1344

*significant at 95% significance level

t-statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1999

Table A-4b Coefficient Estimates for Mean Test Score Model in 1999 : Reading

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	89.8768 * (57.348)	86.1567 * (11.398)	60.0573 * (4.816)	83.6699 * (12.623)	91.0103 * (7.957)
age	-0.7159 * (-6.973)	-2.0003 * (-3.882)	0.7133 (0.827)	-1.0360 * (-2.429)	-2.0876 * (-2.876)
female	-0.8348 * (-7.659)	1.0580 (1.659)	-1.7011 (-1.639)	1.3242 * (2.503)	-1.4070 (-1.504)
attendance rate	0.0887 * (14.035)	0.2131 * (7.806)	0.0970 * (2.491)	0.1712 * (5.437)	0.1794 * (3.482)
English not spoken at home	-0.1297 (-0.135)	0.1432 (0.063)	-2.4888 (-0.432)	-2.8854 * (-3.854)	-3.6453 * (-2.893)
disability	-20.2496 * (-113.771)	-21.4125 * (-26.655)	-17.7080 * (-14.044)	-17.9241 * (-16.710)	-21.4931 * (-16.805)
limited English proficiency	-17.3624 * (-11.146)	-19.9852 * (-7.772)	14.7914 (0.808)	-15.8520 * (-22.640)	-11.9523 * (-8.590)
gifted/talented	7.8228 * (46.150)	12.3081 * (9.422)	15.4424 * (5.550)	8.2846 * (10.590)	11.0834 * (4.853)
% Indian in school	0.0159 (0.993)	0.0329 (0.521)	-0.0484 (-1.661)	0.0778 (0.640)	0.2410 (1.311)
% Asian in school	-0.0322 * (-2.368)	-0.1030 * (-2.486)	-0.1547 * (-1.972)	-0.0889 * (-2.584)	0.3133 (0.488)
% Hispanic in school	0.8486 * (4.034)	0.0884 (1.169)	0.1468 (0.922)	0.1344 (1.638)	-0.0337 (-0.580)
% Black in school	0.0440 * (3.994)	-0.0273 (-0.989)	0.0205 (0.423)	-0.0982 * (-3.250)	0.1012 * (2.087)
number of schools attended	-4.4265 * (-26.730)	-3.0212 * (-6.523)	-2.6794 * (-3.180)	-3.3398 * (-5.610)	-3.2545 * (-3.696)
free/reduced priced lunch	-0.0215 * (-4.835)	-0.0697 * (-2.615)	0.0087 (0.260)	0.0266 (1.022)	-0.0204 (-0.522)
school math top quintile	1.0506 * (5.940)	-0.0559 (-0.025)	4.4194 (1.727)	1.1001 (0.788)	2.8410 (1.276)
school reading top quintile	2.6900 * (15.197)	3.3059 (1.431)	5.0424 * (1.977)	2.4342 (1.734)	5.3572 * (2.365)
school math bottom quintile	-2.5801 * (-3.329)	-0.2385 (-0.146)	-0.4199 (-0.092)	0.8376 (0.528)	-2.6598 (-0.959)
school reading bottom quintile	-6.6248 * (-9.860)	-4.7146 * (-3.309)	-9.6678 * (-2.108)	-2.6595 * (-2.302)	-2.8952 (-1.254)
adjusted R square	0.2933	0.3663	0.2482	0.4761	0.3843
F-statistics	1369.678	107.342	23.291	153.733	50.197
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
mean	82.8656	63.3006	68.5509	72.9811	67.1495
number of observations	56069	3129	1149	2858	1341

*significant at 95% significant level

t-statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1999

Table A-4c Coefficient Estimates for High Achiever Model in 1999 : Mathematics

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	-3.5267 * (96.501)	1.6678 (0.262)	-2.4310 (0.344)	-7.2505 * (12.686)	-7.4315 (3.043)
age	0.0468 * (5.212)	-0.4235 * (4.425)	-0.3178 (1.527)	0.0886 (0.707)	-0.1468 (0.407)
female	-0.3308 * (241.099)	-0.6381 * (9.038)	-0.2330 (0.676)	-0.3580 * (9.093)	-0.7388 * (8.166)
attendance rate	0.0265 * (155.054)	0.0305 (2.956)	0.0536 * (5.568)	0.0544 * (14.327)	0.0784 * (7.377)
English not spoken at home	0.0562 (0.087)	-1.1369 (2.273)	-13.6632 (0.000)	-0.2903 * (4.452)	-0.1359 (0.165)
disability	-1.9906 * (862.143)	-14.2852 (0.003)	-2.2648 * (9.409)	-2.5744 * (12.713)	-13.9957 (0.003)
limited English proficiency	-0.4452 (1.734)	-13.2050 (0.001)	1.8583 (0.000)	-1.8781 * (72.113)	-1.1560 * (4.394)
gifted/talented	1.5797 * (2986.482)	1.5195 * (37.243)	2.0048 * (23.940)	1.3872 * (102.582)	2.1328 * (36.507)
% Indian in school	-0.0012 (0.113)	0.0264 (1.379)	-0.0047 (0.259)	-0.0214 (0.339)	0.0524 (0.687)
% Asian in school	-0.0132 * (20.273)	0.0029 (0.045)	0.0217 (1.220)	-0.0170 (3.783)	-0.0177 (0.625)
% Hispanic in school	0.0142 * (10.552)	0.0145 (0.263)	0.0011 (0.001)	0.0595 * (7.274)	-0.0440 (1.388)
% Black in school	0.0083 * (11.537)	-0.0204 (2.956)	0.0008 (0.003)	-0.0145 (3.428)	-0.0076 (0.186)
number of schools attended	-0.8930 * (280.966)	-1.0821 * (11.738)	-0.3994 (1.629)	-0.2401 (1.496)	-0.5152 (1.385)
free/reduced priced lunch	0.0022 * (5.477)	-0.0057 (0.286)	-0.0100 (0.904)	0.0005 (0.006)	0.0125 (0.929)
school math top quintile	0.4694 * (192.248)	0.7882 (1.363)	0.5481 (0.891)	0.3063 (1.598)	1.3377 * (6.955)
school reading top quintile	0.0487 (2.048)	-0.2316 (0.113)	-0.1576 (0.066)	0.2049 (0.699)	0.1057 (0.044)
school math bottom quintile	-0.9002 * (14.092)	0.3964 (0.236)	0.0399 (0.001)	-0.7229 (1.234)	-13.6985 (0.001)
school reading bottom quintile	-0.1427 (0.721)	-0.3840 (0.301)	-0.7415 (0.199)	-0.1592 (0.121)	0.9869 (1.770)
concordant	71.90%	86.00%	79.60%	84.00%	87.90%
chi-square	7385.996	223.201	84.762	625.691	175.886
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	56050	3104	1151	2878	1344

*significant at 95% significance level

chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1999

Table A-4d Coefficient Estimates for High Achiever Model in 1999 : Reading

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	-2.6495 * (61.834)	2.1752 (0.811)	-13.7823 * (13.819)	-5.9062 * (7.610)	-2.1807 (0.435)
age	0.0323 (2.548)	-0.3401 * (4.763)	0.5572 * (6.221)	0.1458 (1.529)	-0.1031 (0.287)
female	-0.0257 (1.496)	0.1426 (0.720)	-0.0065 (0.001)	0.1653 (1.597)	-0.1622 (0.538)
attendance rate	0.0157 * (77.431)	0.0145 (1.772)	0.0510 * (6.383)	0.0301 * (4.608)	0.0229 (1.521)
English not spoken at home	-0.0251 (0.018)	-0.2764 (0.360)	0.5318 (0.234)	-0.6547 * (18.544)	0.0021 (0.000)
disability	-1.7786 * (785.493)	-14.5565 (0.003)	-1.4569 * (9.030)	-2.9499 * (8.474)	-1.7157 * (8.152)
limited English proficiency	-0.9109 * (5.533)	-2.1841 * (3.881)	-13.4162 (0.000)	-2.2079 * (47.173)	-1.6533 * (11.509)
gifted/talented	1.3896 * (2408.544)	1.4939 * (53.638)	1.9171 * (23.130)	1.4050 * (94.315)	1.4211 * (19.831)
% Indian in school	0.0028 (0.721)	-0.0023 (0.008)	0.0073 (0.737)	0.0090 (0.112)	0.0516 (1.593)
% Asian in school	-0.0063 * (5.091)	-0.0150 (1.750)	0.0336 (3.342)	-0.0114 (1.363)	0.0247 (2.155)
% Hispanic in school	0.0204 * (23.561)	-0.0195 (0.517)	0.0251 (0.299)	0.0322 (1.643)	-0.0027 (0.017)
% Black in school	0.0031 (1.652)	-0.0078 (0.802)	0.0075 (0.271)	-0.0158 (3.012)	0.0185 (2.015)
number of schools attended	-0.6914 * (206.354)	-0.7375 * (12.962)	-0.4522 (2.333)	-0.5930 * (4.987)	-0.8052 * (5.003)
free/reduced priced lunch	0.0025 * (7.163)	-0.0069 (0.703)	-0.0219 * (4.805)	0.0027 (0.149)	-0.0122 (1.305)
school math top quintile	0.1244 * (13.438)	0.2358 (0.178)	0.0197 (0.001)	0.0714 (0.079)	0.9731 * (4.611)
school reading top quintile	0.3078 * (82.589)	-0.0484 (0.007)	-0.0824 (0.022)	0.7408 * (8.119)	-0.1200 (0.068)
school math bottom quintile	-0.3134 (1.989)	-0.0117 (0.000)	-0.6320 (0.122)	1.0291 (1.005)	-0.6489 (0.423)
school reading bottom quintile	-0.5303 * (9.487)	-0.8216 (1.695)	-1.0918 (0.366)	-1.1688 (1.545)	-0.1103 (0.029)
concordant	68.80%	83.20%	78.40%	86.70%	81.50%
chi-square	5678.144	286.530	88.234	636.433	128.621
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	56069	3129	1149	2858	1341

*significant at 95% significance level

chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1999

Table A-4e Coefficient Estimates for Low Achiever Model in 1999 : Mathematics

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	-4.7503 * (164.693)	-4.7538 * (18.854)	0.7848 (0.224)	-1.8102 (2.404)	-0.3753 (0.050)
age	0.2343 * (87.110)	0.4297 * (33.784)	-0.0834 (0.530)	0.1421 (3.545)	0.1798 (3.079)
female	0.5441 * (370.517)	0.3914 * (20.574)	0.4186 * (9.124)	0.4012 * (16.620)	0.5971 * (19.797)
attendance rate	-0.0165 * (185.159)	-0.0228 * (27.720)	-0.0136 * (6.205)	-0.0259 * (22.460)	-0.0408 * (22.627)
English not spoken at home	0.1104 (0.213)	-0.3440 (1.318)	1.4285 (3.605)	-0.0537 (0.105)	0.4683 * (7.369)
disability	2.4272 * (5338.876)	2.1220 * (200.103)	1.8394 * (105.507)	2.1989 * (111.864)	2.2149 * (98.781)
limited English proficiency	1.4589 * (20.596)	1.6145 * (20.664)	13.2224 (0.000)	1.8356 * (200.451)	0.8562 * (19.948)
gifted/talented	-2.4906 * (448.656)	-1.5945 * (66.192)	-1.6447 * (8.404)	-1.7076 * (51.540)	-2.7660 * (13.840)
% Indian in school	0.0024 (0.469)	0.0010 (0.010)	-0.0011 (0.075)	-0.0681 * (4.999)	-0.0252 (0.994)
% Asian in school	0.0106 * (12.733)	0.0097 (2.758)	0.0033 (0.098)	0.0117 (3.328)	-0.0006 (0.003)
% Hispanic in school	-0.0025 (0.270)	-0.0037 (0.129)	-0.0491 * (5.033)	-0.0166 (1.327)	-0.0032 (0.105)
% Black in school	-0.0071 * (8.816)	0.0029 (0.534)	-0.0060 (0.828)	0.0118 * (4.563)	-0.0129 (3.342)
number of schools attended	0.7455 * (479.438)	0.3212 * (20.530)	0.3834 * (11.844)	0.3476 * (12.116)	0.6589 * (21.514)
free/reduced priced lunch	0.0046 * (20.332)	0.0064 (2.671)	0.0094 * (4.391)	-0.0032 (0.421)	0.0042 (0.465)
school math top quintile	-0.6193 * (173.904)	-0.7433 * (6.655)	-1.4051 * (12.738)	-0.6181 * (3.998)	-0.4616 (2.288)
school reading top quintile	-0.1937 * (17.710)	0.4829 (2.701)	0.1533 (0.191)	-0.0764 (0.062)	-0.3232 (1.078)
school math bottom quintile	0.8902 * (36.429)	0.4947 * (4.645)	0.3051 (0.257)	0.2974 (1.175)	1.6125 * (13.720)
school reading bottom quintile	0.2511 (3.711)	0.1435 (0.560)	0.9061 (2.219)	0.2128 (1.283)	-0.1811 (0.313)
concordant chi-square	80.20% 10415.216	78.80% 818.740	77.30% 275.650	83.60% 991.891	81.60% 453.798
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	56050	3104	1151	2878	1344

*significant at 95% significance level
chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1999

Table A-4f Coefficient Estimates for Low Achiever Model in 1999 : Reading

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	-3.6016 * (95.123)	-1.1373 (1.208)	-0.3773 (0.052)	-1.9026 (2.632)	-2.0020 (1.521)
age	0.1450 * (33.578)	0.1554 * (4.945)	0.0121 (0.011)	0.1027 (1.821)	0.1717 (2.809)
female	0.1960 * (49.865)	-0.0828 (0.979)	0.2478 (3.237)	-0.2146 * (4.810)	0.2118 (2.493)
attendance rate	-0.0118 * (92.825)	-0.0244 * (38.499)	-0.0137 * (6.360)	-0.0193 * (12.303)	-0.0192 * (6.901)
English not spoken at home	-0.1467 (0.341)	-0.0359 (0.014)	0.2359 (0.105)	0.4745 * (8.436)	0.4546 * (6.850)
disability	2.3343 * (5190.852)	1.9165 * (232.012)	1.7279 * (101.226)	2.2307 * (98.856)	2.2717 * (112.231)
limited English proficiency	2.3968 * (53.124)	2.0160 * (31.235)	14.6989 (0.000)	1.8790 * (238.388)	1.2944 * (45.572)
gifted/talented	-2.2997 * (428.769)	-1.4554 * (46.385)	-3.0803 * (8.907)	-1.3854 * (48.724)	-1.6931 * (8.833)
% Indian in school	-0.0031 (0.768)	-0.0064 (0.552)	0.0058 (2.302)	0.0018 (0.006)	-0.0020 (0.006)
% Asian in school	0.0016 (0.261)	0.0084 (2.235)	0.0080 (0.590)	0.0116 (3.435)	-0.0037 (0.155)
% Hispanic in school	-0.0049 (1.070)	-0.0010 (0.011)	-0.0202 (0.909)	-0.0054 (0.144)	0.0185 * (4.175)
% Black in school	-0.0062 * (6.618)	0.0033 (0.780)	-0.0054 (0.689)	0.0160 * (8.348)	-0.0129 (3.445)
number of schools attended	0.5788 * (291.420)	0.3271 * (24.920)	0.2653 * (5.595)	0.3573 * (11.145)	0.3519 * (7.336)
free/reduced priced lunch	0.0052 * (25.711)	0.0072 * (3.885)	0.0039 (0.763)	-0.0056 (1.336)	-0.0022 (0.141)
school math top quintile	-0.2518 * (29.874)	-0.0318 (0.012)	-0.8739 * (5.192)	-0.1016 (0.104)	-0.1967 (0.388)
school reading top quintile	-0.5777 * (151.951)	-0.2904 (0.917)	-0.2668 (0.559)	-0.4242 (1.792)	-0.7968 * (5.957)
school math bottom quintile	0.1838 (1.557)	0.1520 (0.499)	-0.3523 (0.337)	-0.1377 (0.258)	0.9056 * (5.152)
school reading bottom quintile	0.7371 * (33.470)	0.3727 * (4.144)	1.3159 * (4.630)	0.3259 (2.779)	0.0064 (0.000)
concordant chi-square	78.8% 9434.635	78.4% 863.168	76.0% 252.158	85.2% 1165.610	82.0% 456.520
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	56069	3129	1149	2858	1341

*significant at 95% significance level

chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1999

Table A-4g Coefficient Estimates in 1999 : Pass, Mathematics

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	2.8562 * (82.920)	3.5370 * (8.420)	-1.0931 (0.406)	1.5546 (1.729)	-2.2880 (1.599)
age	-0.1505 * (52.089)	-0.3384 * (17.101)	0.0347 (0.088)	-0.1716 * (5.146)	-0.0273 (0.065)
female	-0.5021 * (485.687)	-0.4400 * (22.201)	-0.4576 * (10.776)	-0.4127 * (18.772)	-0.5430 * (15.793)
attendance rate	0.0157 * (178.555)	0.0154 * (9.902)	0.0174 * (8.043)	0.0251 * (18.899)	0.0408 * (17.796)
English not spoken at home	-0.0909 (0.201)	0.3353 (1.321)	-0.7076 (0.928)	0.0056 (0.002)	-0.4331 * (6.321)
disability	-2.2182 * (4603.110)	-1.9501 * (117.211)	-1.7891 * (80.027)	-2.4323 * (97.396)	-2.1322 * (69.412)
limited English proficiency	-1.1864 * (16.638)	-1.6717 * (19.217)	-13.0158 (0.000)	-1.9544 * (265.391)	-1.0709 * (26.398)
gifted/talented	2.2562 * (921.355)	1.8061 * (102.650)	1.8895 * (15.155)	1.8210 * (88.542)	1.9008 * (18.262)
% Indian in school	-0.0015 (0.230)	0.0016 (0.019)	0.0013 (0.100)	0.0542 (3.600)	0.0106 (0.142)
% Asian in school	-0.0089 * (11.395)	-0.0107 (2.855)	-0.0127 (1.317)	-0.0140 * (4.884)	-0.0017 (0.030)
% Hispanic in school	0.0034 (0.692)	0.0121 (1.152)	0.0183 (0.704)	0.0256 (3.133)	0.0017 (0.027)
% Black in school	0.0067 * (9.685)	-0.0075 (2.939)	0.0089 (1.655)	-0.0167 * (9.585)	0.0052 (0.488)
number of schools attended	-0.7755 * (590.952)	-0.3751 * (20.551)	-0.3676 * (9.185)	-0.2688 * (6.694)	-0.7506 * (21.212)
free/reduced priced lunch	-0.0032 * (13.442)	-0.0025 (0.342)	-0.0090 (3.601)	0.0072 (2.175)	-0.0001 (0.000)
school math top quintile	0.5446 * (217.533)	0.5383 (3.302)	0.7578 * (5.199)	0.4328 (2.853)	0.4888 (2.710)
school reading top quintile	0.1906 * (27.201)	-0.0878 (0.085)	0.1487 (0.208)	0.0290 (0.013)	0.5263 (3.018)
school math bottom quintile	-0.8738 * (36.685)	-0.2235 (0.640)	-0.1967 (0.090)	-0.5603 (3.619)	-1.0318 * (4.526)
school reading bottom quintile	-0.2050 (2.879)	-0.5635 * (5.762)	-1.1317 (2.883)	-0.1074 (0.283)	0.0068 (0.000)
concordant	76.7%	78.8%	76.5%	83.8%	81.6%
chi-square	11253.53	701.926	248.679	1129.827	419.484
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	56050	3104	1151	2878	1344

*significant at 95% significance level

chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1999

Table A-4h Coefficient Estimates in 1999 : Pass, Reading

Variables	Caucasian	African American	American Indian	Asian	Hispanic
intercept	2.6495 * (64.610)	1.5925 (2.212)	0.0575 (0.001)	1.4812 (1.547)	1.7557 (1.106)
age	-0.1039 * (22.017)	-0.1684 * (5.450)	-0.0554 (0.250)	-0.1104 (2.071)	-0.1630 (2.477)
female	-0.1912 * (62.690)	0.0106 (0.016)	-0.1508 (1.292)	0.1868 (3.792)	-0.1753 (1.746)
attendance rate	0.0111 * (93.058)	0.0185 * (20.653)	0.0164 * (8.409)	0.0208 * (13.082)	0.0198 * (6.499)
English not spoken at home	-0.0237 (0.012)	-0.1979 (0.473)	0.2566 (0.125)	-0.4981 * (12.293)	-0.4501 * (7.157)
disability	-2.1290 * (4795.033)	-1.9705 * (191.224)	-1.4650 * (70.790)	-2.0173 * (75.265)	-1.9539 * (80.308)
limited English proficiency	-1.9288 * (40.612)	-1.6628 * (21.036)	-14.9363 (0.000)	-1.8559 * (253.310)	-1.3040 * (43.827)
gifted/talented	2.1922 * (667.186)	1.5660 * (62.187)	2.3049 * (13.821)	1.4814 * (69.662)	1.7476 * (11.758)
% Indian in school	0.0034 (1.120)	-0.0039 (0.156)	-0.0035 (0.885)	0.0024 (0.012)	0.0350 (1.901)
% Asian in school	-0.0014 (0.252)	-0.0065 (1.270)	-0.0064 (0.400)	-0.0104 (2.880)	0.0138 (2.172)
% Hispanic in school	0.0100 * (5.301)	0.0094 (0.857)	0.0192 (0.886)	0.0017 (0.014)	-0.0130 (1.835)
% Black in school	0.0067 * (8.930)	-0.0026 (0.455)	0.0047 (0.531)	-0.0199 * (13.349)	0.0164 * (5.497)
number of schools attended	-0.6379 * (399.397)	-0.3845 * (29.978)	-0.1832 (2.748)	-0.4112 * (13.373)	-0.5972 * (17.957)
free/reduced priced lunch	-0.0043 * (21.528)	-0.0082 * (4.632)	-0.0045 (1.072)	0.0052 (1.217)	-0.0055 (0.864)
school math top quintile	0.2190 * (31.011)	-0.0128 (0.002)	0.8254 * (5.770)	0.0180 (0.004)	0.3528 (1.381)
school reading top quintile	0.5203 * (169.332)	0.4652 (2.353)	0.2215 (0.452)	0.3338 (1.492)	0.4394 (2.054)
school math bottom quintile	-0.3031 * (4.568)	-0.0805 (0.125)	0.3612 (0.364)	0.1389 (0.232)	-0.7142 (2.864)
school reading bottom quintile	-0.6558 * (29.346)	-0.4968 * (6.621)	-1.1556 (3.642)	-0.1912 (0.829)	-0.2362 (0.532)
concordant	76.2%	78.7%	73.5%	85.0%	81.5%
chi-square	9893.891	837.911	203.408	1221.27	438.807
significance level	0.0001	0.0001	0.0001	0.0001	0.0001
number of observations	56069	3129	1149	2858	1341

*significant at 95% significance level

chi-square statistics are in parentheses

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1999