



Research Brief

December 2007

Department of Shared Accountability

Demographic Changes in the Population of SAT Test Takers in the Montgomery County Public Schools Classes of 2001 to 2007

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Background

In March 2005, the College Board began to administer a new version of the SAT that is longer and contains different test content than the old SAT (College Board, 2005). Students' scores on the new critical reading and math subtests were expected to be the same, on average, as the scores students would have earned on the old verbal and math subtests, respectively (College Board, 2004, 2005, 2006; Kobrin & Schmidt, 2005; Liu, Feigenbaum, & Dorans, 2005). Yet, in the Montgomery County Public Schools (MCPS) and nationwide, SAT mean scores for the Classes of 2006 and 2007 were lower than for prior classes (College Board, 2007; Liu & Von Secker, 2007; Von Secker 2005, 2006).

One explanation for the decline in mean SAT scores nationwide is that the demographic characteristics of the population of SAT takers has changed to include students who, in the past, were not likely to take college entrance examinations (College Board, 2007). Changes in the diversity of the population of test takers can lead to a decrease in the mean score for the district even when the performance of student groups holds steady or improves (College Board, 2007).

This research brief compares the demographic characteristics of MCPS graduates who took the old and new versions of the SAT. Results illustrate that trends for student groups disaggregated by gender; race/ethnicity; or participation in Free and Reduced-price Meals System (FARMS), special education, or limited English proficiency (LEP) services may be different than district trends in mean SAT scores.

Methodology

SAT results were drawn from the most recent SAT scores of MCPS students in the graduating classes of 2001 to 2007. Comparisons of SAT participation and performance for the past seven years are presented as averages for the Classes of 2001 to 2005 (old SAT) versus the Classes of 2006 and 2007 (new SAT). Multiple year averages provide more reliable

indicators of change than comparisons based on differences from one year to another. SAT participation rates and mean scores for each graduating class are shown in Tables A1 to A7.

Results

Changes in Participation

SAT participation on the new SAT administered to the Classes of 2006 and 2007 was 3.5 percentage points higher, on average, than on the old SAT administered to the Classes of 2001 to 2005 (Table 1). However, increases in participation were not uniform across all student groups. Between 2001 and 2007, the characteristics of the population of SAT test takers in MCPS changed.

Table 1
Percentage of Students in the MCPS Classes of 2001 to 2007 Who Took the SAT by Demographic Group

| Demographic Group | Average % Took | | Change in % Took SAT |
|-------------------|-----------------------------------|-----------------------------------|----------------------|
| | Classes of 2001 to 2005 (Old SAT) | Classes of 2006 to 2007 (New SAT) | |
| All MCPS | 73.9 | 77.4 | +3.5 |
| Male | 70.7 | 75.2 | +4.5 |
| Female | 77.2 | 79.7 | +2.5 |
| African Am. | 61.9 | 68.8 | +6.9 |
| Asian Am. | 85.6 | 88.6 | +3.0 |
| Hispanic | 45.9 | 55.0 | +9.1 |
| White | 82.6 | 83.9 | +1.3 |
| FARMS | 48.4 | 57.5 | +9.1 |
| Special Ed. | 41.2 | 46.0 | +4.8 |
| LEP | 28.6 | 37.5 | +8.9 |

Note. Results for American Indian students are not reported separately but are included with all students.

The changes in SAT participation for new versus the old SAT included a greater proportion of test takers whose SAT scores typically are below the district average. Increases in SAT participation among African American (6.9 points) and Hispanic (9.1 points) students were more than twice as high as for Asian American (3.0 points) and White (1.3 points) students. Increases in SAT participation among students who received FARMS (9.1 points), special education (4.8 points), and LEP (8.9 points) services were higher than the average MCPS increase in participation.

Changes in Performance

MCPS mean combined scores on the new SAT administered in 2006 and 2007 were 4.9 points lower than on the old SAT administered from 2001 to 2005 (Table 2). Although SAT performance decreased overall, most student groups showed significant improvements in performance on the new SAT compared with the old SAT.

Table 2
Mean Combined Verbal/Critical Reading and Math Scores of Students in the Classes of 2001 to 2007 by Demographic Group

| Demographic Group | Mean SAT Score | | Change in Mean SAT Score ^a |
|-------------------|-----------------------------------|-----------------------------------|---------------------------------------|
| | Classes of 2001 to 2005 (Old SAT) | Classes of 2006 to 2007 (New SAT) | |
| All MCPS | 1098 | 1093 | -4.9 |
| Male | 1115 | 1112 | -3.5 |
| Female | 1082 | 1075 | -6.2 |
| African Am. | 914 | 906 | -7.2 |
| Asian Am. | 1143 | 1156 | +12.5 |
| Hispanic | 946 | 950 | +3.7 |
| White | 1161 | 1163 | +1.8 |
| FARMS | 883 | 888 | +4.7 |
| Special Ed. | 915 | 922 | +7.8 |
| LEP | 788 | 798 | +9.9 |

Note. Results for American Indian students are not reported separately but are included with all students.

^a Difference is calculated from unrounded mean scores.

Compared with the old SAT, mean combined scores on the new SAT were higher among Asian American (12.5 points), Hispanic (3.7 points) and White (1.8 points) students (Table 2). In addition, SAT mean combined scores improved among students who received FARMS (4.7 points), special education (7.8 points), and LEP (9.9 points) services. SAT mean combined scores on the new SAT decreased for

males (-3.5 points), females (-6.2 points) and African American students (-7.2 points).

Interactions of Gender and Race/Ethnicity

The decline in male SAT performance overall (-3.5 points) reflects a decrease of 4.9 points in the mean SAT scores of African American males (Table 3). Mean scores on the new SAT are higher than scores on the old SAT among males who are Asian American (15.6 points) and Hispanic (6.2 points). Mean scores of White males on the old versus the new SAT changed by less than one point.

Table 3
Mean Combined Verbal/Critical Reading and Math Scores of Male and Female Students in the Classes of 2001 to 2007 by Race/Ethnicity

| Demographic Group | Mean SAT Score | | Change in Mean SAT Score ^a |
|-------------------|-----------------------------------|-----------------------------------|---------------------------------------|
| | Classes of 2001 to 2005 (Old SAT) | Classes of 2006 to 2007 (New SAT) | |
| All Male | 1115 | 1112 | -3.5 |
| African Am. | 914 | 909 | -4.9 |
| Asian Am. | 1153 | 1169 | +15.6 |
| Hispanic | 969 | 975 | +6.2 |
| White | 1175 | 1175 | -0.5 |
| All Female | 1082 | 1075 | -6.2 |
| African Am. | 913 | 904 | -9.2 |
| Asian Am. | 1133 | 1142 | +9.0 |
| Hispanic | 926 | 930 | +4.1 |
| White | 1147 | 1150 | +3.7 |

Note. Results for American Indian students are not reported separately but are included with all students.

^a Difference is calculated from unrounded mean scores.

The overall decline in female SAT mean combined scores (-6.2 points) reflects a decrease of 9.2 points in the mean SAT scores of African American females (Table 3). Mean combined scores on the new SAT are higher than scores on the old SAT among females who are Asian American (9.0 points), Hispanic (4.1 points) and White (3.7 points).

Discussion

One explanation for the decline in MCPS mean SAT scores is that the population of test takers on the new SAT includes a greater number and percentage of students who earn comparatively low SAT scores (Table A1). Over the past seven years, the greatest increases in SAT test taking have been among student groups with mean scores below the district average. This has caused the district mean to decline

even though the SAT performance of most student groups has held steady or improved.

African American students are one group that has shown a decline in SAT performance as participation increased. Compared with combined scores on the old SAT, the African American males and females combined on the new SAT were 4.9 points and 9.2 points lower, respectively (Table A3). The lower average combined score was due almost exclusively to declines in mathematics performance (Tables A6 and A7). On average, there were changes of less than one point in the SAT verbal/critical reading scores of African American males (-0.1 point) and African American females (-0.9 points). However, the average SAT math scores of African American males and females declined by 4.8 points and 8.3 points, respectively (Table A7).

Demographic changes in the populations of MCPS SAT takers are typical of those observed nationwide (College Board, 2007). SAT takers in the national Class of 2007 included record numbers of African American and Hispanic students, students for whom English was not a first language (24%), and students who received FARMS services (11%). As in MCPS, trends in national student subgroup performance on the old vs. new SAT held steady even though mean SAT scores for the nation declined slightly (Von Secker, 2005, 2006; Liu & Von Secker, 2007).

Academic gaps in performance that are observed in MCPS are observed nationally as well (Von Secker, 2005; Liu & Von Secker, 2007). However, on both the old and new SAT, the mean scores of MCPS males, females, and students of different races/ethnicities were higher than the national mean SAT scores for students in the same demographic groups (Tables A8 and A9).

Recommendations

Further research is necessary to understand why trends in the SAT performance of African American males and females are not similar to those observed for students of other races/ethnicities and for students who received FARMS, special education, and LEP services. The Department of Shared Accountability (DSA) should continue to work with the College Board to determine whether trends in SAT performance observed in MCPS also are observed in other large school districts.

DSA should extend prior work that examined the impact of rigorous course taking on SAT scores of students who took the old SAT (Von Secker, 2005). Compared with the old SAT, the new SAT places greater emphasis on critical reading and mathematics through the level of Algebra 2. Examination of

racial/ethnic differences in high school course taking, particularly in mathematics, may provide insight about the sources of trends in the SAT performance of African American students.

References

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**Demographic Changes in the Population of SAT Test Takers in the
Montgomery County Public Schools Classes of 2001 to 2007**

Appendix

Table A1
 Percentage and Number of Students in the Classes of 2001 to 2007
 Who Took the SAT by Demographic Group

| Demographic Group | % Took SAT (N Took SAT) | | | | | | | Mean Old SAT (2001–2005) | Mean New SAT (2006–2007) | Change (new SAT vs. old SAT) |
|-------------------|----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------------|-----------------------------|---------------------------------|
| | Old SAT | | | | | New SAT | | | | |
| | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | | | |
| All MCPS | 72.4 (6064) | 74.0 (6409) | 73.5 (6762) | 73.1 (6892) | 76.5 (7355) | 75.8 (7191) | 79.0 (7660) | 73.9 | 77.4 | +3.5 |
| Male | 68.9 (2897) | 70.4 (3138) | 70.5 (3229) | 70.0 (3271) | 73.5 (3553) | 73.4 (3398) | 76.9 (3738) | 70.7 | 75.2 | +4.5 |
| Female | 75.9 (3167) | 77.8 (3271) | 76.4 (3533) | 76.1 (3621) | 79.6 (3802) | 78.2 (3793) | 81.1 (3922) | 77.2 | 79.7 | +2.5 |
| African Am. | 58.1 (984) | 59.4 (1034) | 64.3 (1111) | 60.7 (1165) | 66.9 (1382) | 65.9 (1240) | 71.6 (1453) | 61.9 | 68.8 | +6.9 |
| Asian Am. | 84.4 (1048) | 86.5 (1170) | 84.3 (1167) | 84.6 (1218) | 88.0 (1308) | 87.8 (1366) | 89.3 (1359) | 85.6 | 88.6 | +3.0 |
| Hispanic | 44.4 (479) | 47.5 (531) | 42.5 (522) | 43.4 (566) | 51.8 (713) | 53.0 (691) | 57.0 (837) | 45.9 | 55.0 | +9.1 |
| White | 81.5 (3538) | 82.7 (3659) | 81.5 (3947) | 82.7 (3933) | 84.4 (3931) | 82.1 (3884) | 85.7 (3995) | 82.6 | 83.9 | +1.3 |
| FARMS | 47.1 (397) | 46.1 (385) | 45.4 (428) | 48.8 (500) | 54.5 (555) | 54.0 (578) | 60.9 (737) | 48.4 | 57.5 | +9.1 |
| Special Ed. | 39.0 (315) | 41.1 (329) | 41.6 (369) | 38.3 (342) | 46.0 (379) | 45.9 (371) | 46.1 (334) | 41.2 | 46.0 | +4.8 |
| LEP | 30.4 (109) | 28.6 (117) | 19.2 (75) | 25.9 (104) | 38.8 (196) | 35.7 (99) | 39.3 (121) | 28.6 | 37.5 | +8.9 |

Note. Results for American Indian students are not reported separately but are included with all students.

^a Difference is calculated from unrounded mean scores.

Table A2
Mean SAT Combined Scores of Students in the Classes of 2001 to 2007
by Demographic Group

| Demographic Group | Mean SAT Combined Scores (N Scores) | | | | | | | Mean Old SAT (2001–2005) | Mean New SAT (2006–2007) | Change (new SAT vs. old SAT) ^a |
|-------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------------|-----------------------------|--|
| | Old SAT | | | | | New SAT | | | | |
| | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | | | |
| All MCPS | 1093 (6064) | 1097 (6409) | 1094 (6762) | 1103 (6892) | 1102 (7288) | 1097 (7191) | 1089 (7660) | 1098 | 1093 | -4.9 |
| Male | 1113 (2897) | 1112 (3138) | 1110 (3229) | 1120 (3271) | 1121 (3520) | 1117 (3398) | 1106 (3738) | 1115 | 1112 | -3.5 |
| Female | 1076 (3167) | 1082 (3271) | 1079 (3533) | 1088 (3621) | 1084 (3768) | 1079 (3793) | 1072 (3922) | 1082 | 1075 | -6.2 |
| African Am. | 911 (984) | 906 (1034) | 917 (1111) | 917 (1165) | 917 (1348) | 909 (1240) | 904 (1453) | 914 | 906 | -7.2 |
| Asian Am. | 1127 (1048) | 1138 (1170) | 1127 (1167) | 1160 (1218) | 1163 (1303) | 1157 (1366) | 1154 (1359) | 1143 | 1156 | +12.5 |
| Hispanic | 949 (479) | 950 (531) | 945 (522) | 944 (566) | 942 (701) | 947 (691) | 952 (837) | 946 | 950 | +3.7 |
| White | 1154 (3538) | 1159 (3659) | 1153 (3947) | 1163 (3933) | 1174 (3915) | 1163 (3884) | 1162 (3995) | 1161 | 1163 | +1.8 |
| FARMS | 875 (397) | 890 (385) | 878 (428) | 894 (500) | 878 (548) | 888 (578) | 887 (737) | 883 | 888 | +4.7 |
| Special Ed. | 932 (315) | 908 (329) | 898 (369) | 924 (342) | 911 (375) | 935 (371) | 909 (334) | 915 | 922 | +7.8 |
| LEP | 795 (109) | 779 (117) | 811 (75) | 757 (104) | 797 (192) | 806 (99) | 789 (121) | 788 | 798 | +9.9 |

Note. Results for American Indian students are not reported separately but are included with all students.

^a Difference is calculated from unrounded mean scores.

Table A3
Mean SAT Combined Scores of Students in the Classes of 2001 to 2007
by Gender and Race/Ethnicity

| Gender by Race/Ethnicity | Mean SAT Combined Scores (N Scores) | | | | | | | Mean Old SAT (2001– 2005) | Mean New SAT (2006– 2007) | Change (new SAT vs. old SAT) ^a |
|--------------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|---------------------------------------|---------------------------------------|---|
| | Old SAT | | | | | New SAT | | | | |
| | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | | | |
| Male | 1113 (2897) | 1112 (3138) | 1110 (3229) | 1120 (3271) | 1121 (3520) | 1117 (3398) | 1106 (3738) | 1115 | 1112 | -3.5 |
| African Am. | 927 (410) | 910 (465) | 900 (483) | 917 (497) | 917 (558) | 910 (515) | 908 (654) | 914 | 909 | -4.9 |
| Asian Am. | 1134 (521) | 1154 (548) | 1134 (598) | 1168 (594) | 1176 (664) | 1173 (694) | 1165 (664) | 1153 | 1169 | +15.6 |
| Hispanic | 980 (218) | 973 (259) | 954 (238) | 974 (268) | 963 (325) | 972 (297) | 978 (372) | 969 | 975 | +6.2 |
| White | 1167 (1741) | 1169 (1858) | 1175 (1901) | 1178 (1908) | 1188 (1958) | 1176 (1885) | 1174 (2041) | 1175 | 1175 | -0.5 |
| Female | 1076 (3167) | 1082 (3271) | 1079 (3533) | 1088 (3621) | 1084 (3768) | 1079 (3793) | 1072 (3922) | 1082 | 1075 | -6.2 |
| African Am. | 900 (574) | 903 (569) | 929 (628) | 917 (668) | 917 (790) | 907 (725) | 901 (799) | 913 | 904 | -9.2 |
| Asian Am. | 1119 (527) | 1124 (622) | 1120 (569) | 1152 (624) | 1150 (639) | 1139 (672) | 1145 (695) | 1133 | 1142 | +9.0 |
| Hispanic | 923 (261) | 928 (272) | 938 (284) | 917 (298) | 923 (376) | 929 (394) | 931 (465) | 926 | 930 | +4.1 |
| White | 1142 (1797) | 1148 (1801) | 1134 (2046) | 1149 (2025) | 1160 (1957) | 1151 (1999) | 1150 (1954) | 1147 | 1150 | +3.7 |

Note. Results for American Indian students are not reported separately but are included with all students.

^a Difference is calculated from unrounded mean scores.

Table A4
Mean SAT Verbal/Critical Reading Score of Students in the Classes of 2001 to 2007
by Demographic Group

| Demographic Group | Mean SAT Verbal/Critical Reading Scores (N Scores) | | | | | | | Mean Old SAT (2001–2005) | Mean New SAT (2006–2007) | Change (new SAT vs. old SAT) ^a |
|-------------------|---|---------------|---------------|---------------|---------------|---------------|---------------|-----------------------------|-----------------------------|--|
| | Old SAT | | | | | New SAT | | | | |
| | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | | | |
| All MCPS | 537 (6064) | 536 (6409) | 535 (6762) | 542 (6892) | 541 (7288) | 539 (7191) | 537 (7660) | 538 | 538 | -0.2 |
| Male | 539 (2897) | 536 (3138) | 537 (3229) | 543 (3271) | 543 (3520) | 542 (3398) | 537 (3738) | 540 | 539 | -0.4 |
| Female | 535 (3167) | 536 (3271) | 534 (3533) | 540 (3621) | 540 (3768) | 537 (3793) | 537 (3922) | 537 | 537 | -0.1 |
| African Am. | 454 (984) | 451 (1034) | 456 (1111) | 458 (1165) | 457 (1348) | 457 (1240) | 453 (1453) | 455 | 455 | -0.6 |
| Asian Am. | 529 (1048) | 536 (1170) | 530 (1167) | 546 (1218) | 553 (1303) | 549 (1366) | 549 (1359) | 539 | 549 | 10.4 |
| Hispanic | 472 (479) | 467 (531) | 466 (522) | 468 (566) | 465 (701) | 468 (691) | 470 (837) | 467 | 469 | 1.7 |
| White | 571 (3538) | 570 (3659) | 568 (3947) | 576 (3933) | 581 (3915) | 575 (3884) | 577 (3995) | 573 | 576 | 2.9 |
| FARMS | 545 (5667) | 543 (6024) | 543 (6334) | 551 (6392) | 551 (6740) | 549 (6613) | 548 (6923) | 547 | 549 | 2.1 |
| Special Ed. | 419 (397) | 423 (385) | 418 (428) | 430 (500) | 420 (548) | 427 (578) | 428 (737) | 422 | 427 | 5.3 |
| LEP | 460 (315) | 443 (329) | 442 (369) | 454 (342) | 450 (375) | 463 (371) | 450 (334) | 450 | 456 | 6.2 |

Note. Results for American Indian students are not reported separately but are included with all students.

Table A5
 Mean SAT Math Scores of Students in the Classes of 2001 to 2007
 by Demographic Group

| Demographic Group | Mean SAT Math Scores (N Scores) | | | | | | | Mean Old SAT (2001– 2005) | Mean New SAT (2006– 2007) | Change (new SAT vs. old SAT) ^a |
|-------------------|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------------------------------|---------------------------------------|---|
| | Old SAT | | | | | New SAT | | | | |
| | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | | | |
| All MCPS | 557 (6064) | 561 (6409) | 558 (6762) | 561 (6892) | 560 (7288) | 558 (7191) | 552 (7660) | 559 | 555 | -4.7 |
| Male | 574 (2897) | 576 (3138) | 573 (3229) | 576 (3271) | 578 (3520) | 575 (3398) | 569 (3738) | 575 | 572 | -3.2 |
| Female | 541 (3167) | 546 (3271) | 545 (3533) | 547 (3621) | 544 (3768) | 542 (3793) | 535 (3922) | 545 | 539 | -6.1 |
| African Am. | 457 (984) | 455 (1034) | 460 (1111) | 459 (1165) | 460 (1348) | 452 (1240) | 451 (1453) | 458 | 452 | -6.6 |
| Asian Am. | 598 (1048) | 603 (1170) | 597 (1167) | 614 (1218) | 610 (1303) | 607 (1366) | 606 (1359) | 604 | 606 | 2.1 |
| Hispanic | 477 (479) | 482 (531) | 479 (522) | 477 (566) | 477 (701) | 479 (691) | 481 (837) | 478 | 480 | 2.0 |
| White | 584 (3538) | 589 (3659) | 585 (3947) | 587 (3933) | 594 (3915) | 588 (3884) | 585 (3995) | 588 | 586 | -1.1 |
| FARMS | 564 (5667) | 567 (6024) | 565 (6334) | 568 (6392) | 569 (6740) | 566 (6613) | 562 (6923) | 567 | 564 | -2.7 |
| Special Ed. | 456 (397) | 467 (385) | 459 (428) | 464 (500) | 458 (548) | 461 (578) | 460 (737) | 461 | 460 | -0.6 |
| LEP | 472 (315) | 465 (329) | 455 (369) | 470 (342) | 461 (375) | 473 (371) | 460 (334) | 465 | 466 | 1.5 |

Note. Results for American Indian students are not reported separately but are included with all students.

^a Difference is calculated from unrounded mean scores.

Table A6
Mean SAT Verbal/Critical Reading Score of Students in the Classes of 2001 to 2007
by Gender and Race/Ethnicity

| Gender by Race/Ethnicity | Mean SAT Verbal/Critical Reading Scores (N Scores) | | | | | | | Mean Old SAT (2001– 2005) | Mean New SAT (2006– 2007) | Change (new SAT vs. old SAT) ^a |
|--------------------------------|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------------------------------|---------------------------------------|---|
| | Old SAT | | | | | New SAT | | | | |
| | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | | | |
| Male | 539 (2897) | 536 (3138) | 537 (3229) | 543 (3271) | 543 (3520) | 542 (3398) | 537 (3738) | 540 | 539 | -0.4 |
| African Am. | 456 (410) | 446 (465) | 442 (483) | 453 (497) | 448 (558) | 451 (515) | 447 (654) | 449 | 449 | -0.1 |
| Asian Am. | 524 (521) | 534 (548) | 528 (598) | 544 (594) | 552 (664) | 554 (694) | 548 (664) | 537 | 551 | 14.1 |
| Hispanic | 481 (218) | 473 (259) | 464 (238) | 477 (268) | 470 (325) | 473 (297) | 473 (372) | 473 | 473 | -0.3 |
| White | 569 (1741) | 567 (1858) | 573 (1901) | 576 (1908) | 580 (1958) | 573 (1885) | 574 (2041) | 573 | 573 | 0.3 |
| Female | 535 (3167) | 536 (3271) | 534 (3533) | 540 (3621) | 540 (3768) | 537 (3793) | 537 (3922) | 537 | 537 | -0.1 |
| African Am. | 453 (574) | 456 (569) | 467 (628) | 462 (668) | 464 (790) | 461 (725) | 458 (799) | 460 | 460 | -0.9 |
| Asian Am. | 533 (527) | 537 (622) | 532 (569) | 548 (624) | 553 (639) | 545 (672) | 549 (695) | 541 | 547 | 6.6 |
| Hispanic | 464 (261) | 462 (272) | 467 (284) | 459 (298) | 461 (376) | 464 (394) | 469 (465) | 463 | 467 | 3.9 |
| White | 572 (1797) | 573 (1801) | 564 (2046) | 576 (2025) | 581 (1957) | 577 (1999) | 581 (1954) | 573 | 579 | 5.4 |

Note. Results for American Indian students are not reported separately but are included with all students.

^a Difference is calculated from unrounded mean scores.

Table A7
Mean SAT Math Scores of Students in the Classes of 2001 to 2007
by Gender and Race/Ethnicity

| Demographic Group | Mean SAT Math Scores (N Scores) | | | | | | | Mean Old SAT (2001–2005) | Mean New SAT (2006–2007) | Change (new SAT vs. old SAT) ^a |
|-------------------|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------------------|-----------------------------|--|
| | Old SAT | | | | | New SAT | | | | |
| | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | | | |
| Male | 574 (2897) | 576 (3138) | 573 (3229) | 576 (3271) | 578 (3520) | 575 (3398) | 569 (3738) | 575 | 572 | -3.2 |
| African Am. | 471 (410) | 464 (465) | 458 (483) | 464 (497) | 468 (558) | 460 (515) | 461 (654) | 465 | 461 | -4.8 |
| Asian Am. | 610 (521) | 620 (548) | 606 (598) | 624 (594) | 624 (664) | 620 (694) | 617 (664) | 617 | 618 | 1.5 |
| Hispanic | 499 (218) | 499 (259) | 489 (238) | 497 (268) | 494 (325) | 499 (297) | 505 (372) | 496 | 502 | 6.6 |
| White | 597 (1741) | 602 (1858) | 602 (1901) | 602 (1908) | 608 (1958) | 603 (1885) | 600 (2041) | 602 | 601 | -0.9 |
| Female | 541 (3167) | 546 (3271) | 545 (3533) | 547 (3621) | 544 (3768) | 542 (3793) | 535 (3922) | 545 | 539 | -6.1 |
| African Am. | 446 (574) | 448 (569) | 462 (628) | 454 (668) | 453 (790) | 447 (725) | 442 (799) | 453 | 445 | -8.3 |
| Asian Am. | 586 (527) | 588 (622) | 588 (569) | 604 (624) | 596 (639) | 594 (672) | 595 (695) | 592 | 595 | 2.4 |
| Hispanic | 459 (261) | 466 (272) | 471 (284) | 458 (298) | 462 (376) | 464 (394) | 462 (465) | 463 | 463 | 0.1 |
| White | 570 (1797) | 575 (1801) | 569 (2046) | 573 (2025) | 579 (1957) | 574 (1999) | 569 (1954) | 573 | 572 | -1.7 |

Note. Results for American Indian students are not reported separately but are included with all students.
^a Difference is calculated from unrounded mean scores.

Table A8
Mean Most Recent SAT Combined Verbal and Math Scores for the MCPS and National
Classes of 2001 to 2007 by Gender

| Graduating Class | Male Combined Verbal ^a and Math | | | Female Combined Verbal ^a and Math | | | |
|------------------|---|------------------|-----------------------------------|---|------------------|-----------------------------------|-----|
| | Nation ^a Mean SAT | MCPS Mean SAT | MCPS Difference from Nation | Nation ^a Mean SAT | MCPS Mean SAT | MCPS Difference from Nation | |
| Old SAT | 2001 | 1042 | 1113 | +71 | 1000 | 1076 | +76 |
| | 2002 | 1041 | 1112 | +71 | 1002 | 1082 | +80 |
| | 2003 | 1049 | 1110 | +61 | 1006 | 1079 | +73 |
| | 2004 | 1049 | 1120 | +71 | 1005 | 1088 | +83 |
| | 2005 | 1051 | 1121 | +70 | 1009 | 1084 | +75 |
| New SAT | 2006 | 1117 | 1041 | +76 | 1079 | 1004 | +75 |
| | 2007 | 1106 | 1037 | +69 | 1072 | 1001 | +71 |

^a National results are provided by the College Board.

Note. The verbal subtest on the old SAT was replaced with a critical reading subtest on the new SAT.

Table A9
Mean Most Recent SAT Combined Verbal and Math Scores for the MCPS and National
Classes of 2001 to 2007 by Race/Ethnicity

| Graduating Class | African American Combined Verbal/Critical Reading and Math | | | Asian American Combined Verbal/Critical Reading and Math | | | |
|------------------|---|------------------|-----------------------------------|---|------------------|-----------------------------------|------|
| | Nation ^a Mean SAT | MCPS Mean SAT | MCPS Difference from Nation | Nation ^a Mean SAT | MCPS Mean SAT | MCPS Difference from Nation | |
| | 2001 | 859 | 911 | +52 | 1067 | 1127 | +60 |
| Old SAT | 2002 | 857 | 906 | +49 | 1070 | 1138 | +68 |
| | 2003 | 857 | 917 | +60 | 1083 | 1127 | +44 |
| | 2004 | 857 | 917 | +60 | 1084 | 1160 | +76 |
| | 2005 | 864 | 917 | +53 | 1091 | 1163 | +72 |
| | New SAT | 2006 | 863 | 909 | +46 | 1088 | 1156 |
| 2007 | | 862 | 904 | +42 | 1092 | 1155 | +63 |

| Graduating Class | Hispanic Combined Verbal/Critical Reading and Math | | | White Combined Verbal/Critical Reading and Math | | | |
|------------------|---|------------------|-----------------------------------|--|------------------|-----------------------------------|------|
| | Nation ^a Mean SAT | MCPS Mean SAT | MCPS Difference from Nation | Nation ^a Mean SAT | MCPS Mean SAT | MCPS Difference from Nation | |
| | 2001 | 934 | 949 | +15 | 1060 | 1154 | +94 |
| Old SAT | 2002 | 911 | 950 | +39 | 1060 | 1159 | +99 |
| | 2003 | 933 | 945 | +12 | 1063 | 1153 | +90 |
| | 2004 | 916 | 944 | +28 | 1059 | 1163 | +104 |
| | 2005 | 922 | 942 | +20 | 1068 | 1174 | +106 |
| | New SAT | 2006 | 919 | 947 | +28 | 1063 | 1163 |
| 2007 | | 920 | 951 | +31 | 1061 | 1162 | +101 |

^a National results are provided by the College Board.

Note. The verbal subtest on the old SAT was replaced with a critical reading subtest on the new SAT.