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Testing Scores

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- P1 National Security Classified Information [(a)(1) of the PRA]
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**Table B.21**  
**Mean scores and means compared with United States:**  
**International Assessment of Educational Progress, 13-year-olds**  
**(63 items—mathematics proficiency)**

| Educational<br>system and<br>rank by mean | Proficiency score |                                | Mean<br>compared with<br>U.S. <sup>3</sup> |
|-------------------------------------------|-------------------|--------------------------------|--------------------------------------------|
|                                           | Mean <sup>1</sup> | Standard<br>error <sup>2</sup> |                                            |
| Korea                                     | 567.8             | 2.7                            | higher                                     |
| Canada (Quebec: French)                   | 543.0             | 3.1                            | higher                                     |
| Canada (British Columbia)                 | 539.8             | 2.2                            | higher                                     |
| Canada (Quebec: English)                  | 535.8             | 2.0                            | higher                                     |
| Canada (New Brunswick: English)           | 529.0             | 2.6                            | higher                                     |
| Canada (Ontario: English)                 | 516.1             | 3.1                            | higher                                     |
| Canada (New Brunswick: French)            | 514.2             | 3.3                            | higher                                     |
| Spain                                     | 511.7             | 4.6                            | higher                                     |
| United Kingdom                            | 509.9             | 3.5                            | higher                                     |
| Ireland                                   | 504.3             | 3.7                            | higher                                     |
| Canada (Ontario: French)                  | 481.5             | 2.7                            | same                                       |
| United States                             | 473.9             | 4.5                            | U.S.                                       |

<sup>1</sup>Score based on scale ranging from 0 to 1,000, with mean of 500 and standard deviation of 100.

<sup>2</sup>Standard error jackknifed.

<sup>3</sup>Based on Bonferroni adjusted t-test for comparisons with the United States.

SOURCE: Data from Archie E. Lapointe, Nancy A. Mead, and Gary W. Phillips, *A World of Differences: International Assessment of Educational Progress* (Princeton: Educational Testing Service, 1989), 14, 84.

**Grade 4 Reading Mean Scale Scores Across Years**

| Nation            | Grade 4 Reading     |                     |                     |
|-------------------|---------------------|---------------------|---------------------|
|                   | 1992                | 1994                | 1998                |
|                   | Scale Score<br>Mean | Scale Score<br>Mean | Scale Score<br>Mean |
| Nation            | 214.83              | 212.33              | 215.44              |
| Alabama           | 207.36              | 207.96              | 210.92              |
| Arizona           | 209.40              | 206.21              | 206.53              |
| Arkansas          | 210.90              | 208.63              | 208.84              |
| California        | 202.25              | 196.76              | 201.91              |
| Colorado          | 216.53              | 213.48              | 221.65              |
| Connecticut       | 221.61              | 222.42              | 231.60              |
| Delaware          | 212.92              | 206.39              | 212.00              |
| Florida           | 208.31              | 204.88              | 207.30              |
| Georgia           | 212.34              | 206.84              | 209.82              |
| Hawaii            | 203.43              | 200.88              | 199.70              |
| Iowa              | 225.49              | 222.85              | 223.05              |
| Kansas            |                     |                     | 222.18              |
| Kentucky          | 212.51              | 211.56              | 217.53              |
| Louisiana         | 203.69              | 196.76              | 204.23              |
| Maine             | 226.81              | 228.38              | 225.40              |
| Maryland          | 211.04              | 209.65              | 214.93              |
| Massachusetts     | 226.00              | 223.16              | 225.31              |
| Michigan          | 216.03              |                     | 216.50              |
| Minnesota         | 220.90              | 218.30              | 221.83              |
| Mississippi       | 199.11              | 201.53              | 204.30              |
| Missouri          | 220.05              | 216.90              | 216.18              |
| Montana           |                     | 222.30              | 226.15              |
| Nevada            |                     |                     | 207.60              |
| New Hampshire     | 227.71              | 223.47              | 225.72              |
| New Mexico        | 210.74              | 204.54              | 205.95              |
| New York          | 214.63              | 211.74              | 215.78              |
| North Carolina    | 211.55              | 214.36              | 216.84              |
| Oklahoma          | 220.28              |                     | 219.51              |
| Oregon            |                     |                     | 214.44              |
| Rhode Island      | 216.61              | 219.94              | 218.03              |
| South Carolina    | 209.72              | 203.42              | 210.45              |
| Tennessee         | 212.14              | 212.53              | 212.40              |
| Texas             | 212.50              | 212.39              | 216.86              |
| Utah              | 220.39              | 217.33              | 215.41              |
| Virginia          | 220.75              | 213.46              | 218.35              |
| Washington        |                     | 212.70              | 216.85              |
| West Virginia     | 215.54              | 213.15              | 216.44              |
| Wisconsin         | 223.61              | 224.17              | 224.35              |
| Wyoming           | 222.98              | 221.19              | 219.01              |
| Dist. Of Columbia | 188.14              | 178.56              | 181.63              |
| DoDEA/DDESS       |                     |                     | 219.89              |
| DoDEA/DoDDS       |                     | 217.58              | 223.41              |
| Virgin Islands    | 171.06              |                     | 177.84              |

**Grade 8 Mathematics Mean Scale Scores Across Years**

| Nation            | Grade 8 Mathematics |                     |                     |
|-------------------|---------------------|---------------------|---------------------|
|                   | 1990                | 1992                | 1996                |
|                   | Scale Score<br>Mean | Scale Score<br>Mean | Scale Score<br>Mean |
| Nation            | 261.74              | 266.87              | 270.51              |
| Alabama           | 252.86              | 252.19              | 256.59              |
| Alaska            |                     |                     | 277.64              |
| Arizona           | 259.59              | 265.37              | 267.87              |
| Arkansas          | 256.21              | 256.31              | 261.65              |
| California        | 256.32              | 260.89              | 262.77              |
| Colorado          | 267.37              | 272.40              | 275.61              |
| Connecticut       | 269.87              | 273.74              | 279.59              |
| Delaware          | 280.70              | 262.87              | 266.73              |
| Florida           | 255.32              | 259.91              | 263.84              |
| Georgia           | 258.85              | 259.36              | 262.47              |
| Hawaii            | 251.02              | 257.41              | 262.13              |
| Indiana           | 267.27              | 270.10              | 275.53              |
| Iowa              | 277.97              | 283.36              | 283.99              |
| Kentucky          | 257.10              | 262.24              | 266.59              |
| Louisiana         | 246.44              | 249.98              | 252.38              |
| Maine             |                     | 278.64              | 284.06              |
| Maryland          | 260.77              | 264.83              | 269.68              |
| Massachusetts     |                     | 272.78              | 277.57              |
| Michigan          | 264.40              | 267.35              | 276.87              |
| Minnesota         | 275.39              | 282.39              | 284.05              |
| Mississippi       |                     | 246.46              | 250.22              |
| Missouri          |                     | 271.13              | 273.28              |
| Montana           | 280.50              |                     | 283.00              |
| Nebraska          | 275.67              | 277.65              | 282.77              |
| New Mexico        | 256.42              | 259.81              | 261.97              |
| New York          | 260.80              | 268.42              | 270.23              |
| North Carolina    | 250.35              | 258.41              | 267.83              |
| North Dakota      | 281.10              | 283.21              | 284.22              |
| Oregon            | 271.36              |                     | 276.34              |
| Rhode Island      | 260.04              | 265.91              | 268.88              |
| South Carolina    |                     | 260.77              | 260.78              |
| Tennessee         |                     | 258.83              | 263.12              |
| Texas             | 258.19              | 264.59              | 270.20              |
| Utah              |                     | 274.34              | 276.77              |
| Vermont           |                     |                     | 279.25              |
| Virginia          | 264.27              | 267.86              | 269.75              |
| Washington        |                     |                     | 276.12              |
| West Virginia     | 255.90              | 259.09              | 264.87              |
| Wisconsin         | 274.49              | 277.88              | 282.85              |
| Wyoming           | 272.15              | 275.08              | 274.78              |
| Dist. Of Columbia | 231.36              | 234.92              | 232.83              |
| DoDEA/DDESS       |                     |                     | 269.08              |
| DoDEA/DoDDS       |                     |                     | 274.84              |
| Guam              | 231.82              | 235.05              | 238.61              |

**Grade 4 Mathematics Mean Scale Scores Across Years**

| Nation            | Grade 4 Mathematics |                     |
|-------------------|---------------------|---------------------|
|                   | 1992                | 1996                |
|                   | Scale Score<br>Mean | Scale Score<br>Mean |
| Nation            | 218.58              | 222.34              |
| Alabama           | 208.33              | 211.65              |
| Alaska            |                     | 223.83              |
| Arizona           | 215.25              | 217.58              |
| Arkansas          | 210.21              | 215.85              |
| California        | 208.40              | 209.13              |
| Colorado          | 221.02              | 225.81              |
| Connecticut       | 226.80              | 232.03              |
| Delaware          | 217.90              | 215.03              |
| Florida           | 213.69              | 215.76              |
| Georgia           | 215.59              | 215.48              |
| Hawaii            | 214.06              | 214.97              |
| Indiana           | 221.04              | 229.39              |
| Iowa              | 229.88              | 229.13              |
| Kentucky          | 215.05              | 219.99              |
| Louisiana         | 204.14              | 209.02              |
| Maine             | 231.64              | 232.21              |
| Maryland          | 217.32              | 220.69              |
| Massachusetts     | 226.60              | 228.97              |
| Michigan          | 219.88              | 226.26              |
| Minnesota         | 228.49              | 232.19              |
| Mississippi       | 201.83              | 208.43              |
| Missouri          | 222.22              | 224.73              |
| Montana           |                     | 227.52              |
| Nebraska          | 225.33              | 227.54              |
| Nevada            |                     | 217.62              |
| New Jersey        | 227.15              | 227.24              |
| New Mexico        | 213.30              | 213.84              |
| New York          | 218.45              | 222.63              |
| North Carolina    | 212.88              | 224.33              |
| North Dakota      | 228.66              | 230.90              |
| Oregon            |                     | 223.48              |
| Pennsylvania      | 224.31              | 226.21              |
| Rhode Island      | 215.45              | 220.42              |
| South Carolina    | 212.50              | 213.19              |
| Tennessee         | 210.95              | 219.18              |
| Texas             | 217.92              | 228.71              |
| Utah              | 224.04              | 226.52              |
| Vermont           |                     | 224.88              |
| Virginia          | 220.76              | 222.64              |
| Washington        |                     | 225.05              |
| West Virginia     | 215.27              | 223.35              |
| Wisconsin         | 228.69              | 231.41              |
| Wyoming           | 225.38              | 223.20              |
| Dist. Of Columbia | 192.60              | 187.13              |
| DoDEA/DDESS       |                     | 224.20              |
| DoDEA/DoDDS       |                     | 223.22              |
| Guam              | 192.81              | 188.36              |

**Table 5.1**

Average grade 4 scale scores for the states for public schools only: 1992, 1994, and 1998

|                            | Average scale score |      |         |
|----------------------------|---------------------|------|---------|
|                            | 1992                | 1994 | 1998    |
| <b>Nation</b>              | 215                 | 212  | 215*    |
| <b>States</b>              |                     |      |         |
| Alabama                    | 207                 | 208  | 211     |
| Arizona                    | 209                 | 206  | 207     |
| Arkansas                   | 211                 | 209  | 209     |
| California                 | 202                 | 197  | 202     |
| Colorado                   | 217                 | 213  | 222*+++ |
| Connecticut                | 222                 | 222  | 232*+++ |
| Delaware                   | 213                 | 206  | 212**   |
| Florida                    | 208                 | 205  | 207     |
| Georgia                    | 212                 | 207  | 210     |
| Hawaii                     | 203                 | 201  | 200     |
| Iowa†                      | 225                 | 223  | 223     |
| Kansas†                    | —                   | —    | 222     |
| Kentucky                   | 213                 | 212  | 218*++  |
| Louisiana                  | 204                 | 197  | 204*++  |
| Maine                      | 227                 | 228  | 225     |
| Maryland                   | 211                 | 210  | 215*    |
| Massachusetts†             | 226                 | 223  | 225     |
| Michigan                   | 216                 | —    | 217     |
| Minnesota†                 | 221                 | 218  | 222     |
| Mississippi                | 199                 | 202  | 204*    |
| Missouri                   | 220                 | 217  | 216     |
| Montana†                   | —                   | 222  | 226     |
| Nevada                     | —                   | —    | 208     |
| New Hampshire†             | 228                 | 223  | 226     |
| New Mexico                 | 211                 | 205  | 206     |
| New York†                  | 215                 | 212  | 216     |
| North Carolina             | 212                 | 214  | 217*+   |
| Oklahoma                   | 220                 | —    | 220     |
| Oregon                     | —                   | —    | 214     |
| Rhode Island               | 217                 | 220  | 218     |
| South Carolina             | 210                 | 203  | 210*++  |
| Tennessee                  | 212                 | 213  | 212     |
| Texas                      | 213                 | 212  | 217     |
| Utah                       | 220                 | 217  | 215*+   |
| Virginia                   | 221                 | 213  | 218*    |
| Washington                 | —                   | 213  | 217*    |
| West Virginia              | 216                 | 213  | 216     |
| Wisconsin†                 | 224                 | 224  | 224     |
| Wyoming                    | 223                 | 221  | 219*    |
| <b>Other Jurisdictions</b> |                     |      |         |
| District of Columbia       | 188                 | 179  | 182*+   |
| DDESS                      | —                   | —    | 220     |
| DoDDS                      | —                   | 218  | 223*++  |
| Virgin Islands             | 171                 | —    | 178*    |

\*\* Indicates that the average scale score in 1998 was significantly different from that in 1992 using a multiple comparison procedure based on all jurisdictions that participated both years. \* Indicates that the average scale score in 1998 was significantly different from that in 1992 if only one jurisdiction is being examined. ++ Indicates that the average scale score in 1998 was significantly different from that in 1994 using a multiple comparison procedure based on all jurisdictions that participated both years. + Indicates that the average scale score in 1998 was significantly different from that in 1994 if only one jurisdiction or the nation is being examined.

— Indicates jurisdiction did not participate. † Indicates jurisdiction did not meet one or more of the guidelines for school participation. DDESS: Department of Defense Domestic Dependent Elementary and Secondary Schools. DoDDS: Department of Defense Dependents Schools (Overseas). NOTE: National results are based on the national assessment sample, not on aggregated state assessment samples. Differences between states and jurisdictions may be partially explained by other factors not included in this table. SOURCE: National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1992, 1994, and 1998 Reading Assessments.

**Table B.1**  
**Mean scores and means compared with United States:**  
**First International Mathematics Study, 13-year-olds (70 items)**

| Educational<br>system and<br>rank by mean | Number of items correct |                                           |                       | Mean<br>compared<br>with U.S. <sup>2</sup> |
|-------------------------------------------|-------------------------|-------------------------------------------|-----------------------|--------------------------------------------|
|                                           | Mean                    | Standard<br>error of<br>mean <sup>1</sup> | Standard<br>deviation |                                            |
| Israel                                    | 32.3                    | 0.47                                      | 14.7                  | higher                                     |
| Japan                                     | 32.2                    | 0.52                                      | 16.9                  | higher                                     |
| Belgium                                   | 30.4                    | 0.53                                      | 13.7                  | higher                                     |
| Finland                                   | 26.4                    | 0.60                                      | 9.6                   | higher                                     |
| Federal Republic of Germany               | 25.4                    | 0.58                                      | 11.7                  | higher                                     |
| England                                   | 23.8                    | 0.57                                      | 18.5                  | higher                                     |
| Scotland                                  | 22.3                    | 0.64                                      | 15.7                  | higher                                     |
| Netherlands                               | 21.4                    | 0.61                                      | 12.1                  | higher                                     |
| France                                    | 21.0                    | 0.70                                      | 13.2                  | higher                                     |
| Australia                                 | 18.9                    | 0.38                                      | 12.3                  | same                                       |
| <b>United States</b>                      | 17.8                    | 0.28                                      | 13.3                  | U.S.                                       |
| Sweden                                    | 15.3                    | 0.51                                      | 10.8                  | lower                                      |

<sup>1</sup>Standard error calculated using design effect specified by country in Husen, 158-61.

<sup>2</sup>Based on Bonferroni adjusted t-test for comparisons with the United States.

SOURCE: Data from Torsten Husen, *International Study of Achievement in Mathematics*, Vol. II (New York: John Wiley & Sons, Inc., 1967), 23; Vol. I, 158-61.

**Table B.2**  
**Mean scores and means compared with United States:**  
**First International Mathematics Study, Last year of secondary school**  
**(mathematics students—69 items)**

| Educational<br>system and<br>rank by mean | Number of items correct |                                           |                       | Mean<br>compared<br>with U.S. <sup>2</sup> |
|-------------------------------------------|-------------------------|-------------------------------------------|-----------------------|--------------------------------------------|
|                                           | Mean                    | Standard<br>error of<br>mean <sup>1</sup> | Standard<br>deviation |                                            |
| Israel                                    | 36.4                    | 1.35                                      | 8.6                   | higher                                     |
| England                                   | 34.6                    | 0.72                                      | 12.6                  | higher                                     |
| Belgium                                   | 34.6                    | 0.89                                      | 12.6                  | higher                                     |
| France                                    | 33.4                    | 0.80                                      | 10.8                  | higher                                     |
| Netherlands                               | 31.9                    | 0.60                                      | 8.1                   | higher                                     |
| Japan                                     | 31.4                    | 1.00                                      | 8.6                   | higher                                     |
| Federal Republic of Germany               | 28.8                    | 0.50                                      | 9.8                   | higher                                     |
| Sweden                                    | 27.3                    | 0.68                                      | 11.9                  | higher                                     |
| Scotland                                  | 25.5                    | 0.44                                      | 10.4                  | higher                                     |
| Finland                                   | 25.3                    | 0.65                                      | 9.6                   | higher                                     |
| Australia                                 | 21.6                    | 0.64                                      | 10.5                  | higher                                     |
| United States                             | 13.8                    | 0.51                                      | 12.6                  | U.S.                                       |

<sup>1</sup>Standard error calculated using design effect specified by country in Husen, 158–61.

<sup>2</sup>Based on Bonferroni adjusted t-test for comparisons with the United States.

SOURCE: Data from Torsten Husen, *International Study of Achievement in Mathematics*, Vol. II (New York: John Wiley & Sons, Inc., 1967), 23; Vol. I, 158–61.

**Table B.3**  
**Mean scores and means compared with United States:**  
**First International Mathematics Study, Last year of secondary school**  
**(non-mathematics students—58 items)**

| Educational<br>system and<br>rank by mean | Number of items correct |                                           |                       | Mean<br>compared<br>with U.S. <sup>2</sup> |
|-------------------------------------------|-------------------------|-------------------------------------------|-----------------------|--------------------------------------------|
|                                           | Mean                    | Standard<br>error of<br>mean <sup>1</sup> | Standard<br>deviation |                                            |
| Federal Republic of Germany               | 27.7                    | 0.30                                      | 7.6                   | higher                                     |
| France                                    | 26.2                    | --                                        | 9.5                   | --                                         |
| Japan                                     | 25.3                    | 0.43                                      | 14.3                  | higher                                     |
| Netherlands                               | 24.7                    | --                                        | 9.8                   | --                                         |
| Belgium                                   | 24.2                    | 0.57                                      | 9.5                   | higher                                     |
| Finland                                   | 22.5                    | 0.54                                      | 8.3                   | higher                                     |
| England                                   | 21.4                    | 0.31                                      | 10.0                  | higher                                     |
| Scotland                                  | 20.7                    | 0.37                                      | 9.5                   | higher                                     |
| Sweden                                    | 12.6                    | 0.38                                      | 6.2                   | higher                                     |
| United States                             | 8.3                     | 0.36                                      | 9.0                   | U.S.                                       |

--Not available.

<sup>1</sup>Standard error calculated using design effect by country in Husen, 158-61.

<sup>2</sup>Based on Bonferroni adjusted t-test for comparisons with the United States.

SOURCE: Data from Torsten Husen, *International Study of Achievement in Mathematics*, Vol. II (New York: Wiley, 1967), 25; Vol. I, 158-61.

**Table B.4**  
**Mean scores and means compared with United States:**  
**Second International Mathematics Study, 13-year-olds**  
**(46 core items—arithmetic)**

| Educational<br>system and<br>rank by mean | Number of items correct |                                           |                       | Mean<br>compared<br>with U.S. <sup>2</sup> |
|-------------------------------------------|-------------------------|-------------------------------------------|-----------------------|--------------------------------------------|
|                                           | Mean                    | Standard<br>error of<br>mean <sup>1</sup> | Standard<br>deviation |                                            |
| Japan                                     | 60.3                    | 1.5                                       | --                    | higher                                     |
| Netherlands                               | 59.3                    | 1.1                                       | --                    | higher                                     |
| Canada (British Columbia)                 | 58.0                    | 1.3                                       | --                    | higher                                     |
| Belgium (Flemish)                         | 58.0                    | 1.4                                       | --                    | higher                                     |
| France                                    | 57.7                    | 1.3                                       | --                    | higher                                     |
| Belgium (French)                          | 57.0                    | 1.8                                       | --                    | same                                       |
| Hungary                                   | 56.8                    | 1.5                                       | --                    | same                                       |
| Hong Kong                                 | 55.1                    | 0.5                                       | --                    | same                                       |
| Canada (Ontario)                          | 54.5                    | 1.1                                       | --                    | same                                       |
| <b>United States</b>                      | 51.4                    | 1.2                                       | --                    | U.S.                                       |
| Scotland                                  | 50.2                    | 0.5                                       | --                    | same                                       |
| Israel                                    | 49.9                    | 1.5                                       | --                    | same                                       |
| England and Wales                         | 48.2                    | 0.9                                       | --                    | same                                       |
| New Zealand                               | 45.6                    | 1.2                                       | --                    | lower                                      |
| Finland                                   | 45.5                    | 1.3                                       | --                    | lower                                      |
| Luxembourg                                | 45.4                    | 0.4                                       | --                    | lower                                      |
| Thailand                                  | 43.1                    | 1.3                                       | --                    | lower                                      |
| Sweden                                    | 40.6                    | 0.9                                       | --                    | lower                                      |
| Nigeria                                   | 40.8                    | 1.3                                       | --                    | lower                                      |
| Swaziland                                 | 32.3                    | 1.4                                       | --                    | lower                                      |

--Not available.

<sup>1</sup>Standard error calculated in Robitaille and Garden. Method not specified.

<sup>2</sup>Based on Bonferroni adjusted t-test for comparisons with the United States.

SOURCE: Data from David Robitaille and Robert Garden, eds., *The International Association for the Evaluation of Education Achievement (IEA) Study of Mathematics II: Contexts and Outcomes of School Mathematics*, Vol. II (Oxford: Pergamon Press, 1989), 105; U.S. Department of Education, Center for Education Statistics, Robert A. Garden, *Second IEA Mathematics Study: Sampling Report* (Washington, DC, March 1987), 115; U.S. Department of Education, National Center for Education Statistics, *Digest of Education Statistics* (Washington, DC, 1989), 389.

**Table B.5**  
**Mean scores and means compared with United States:**  
**Second International Mathematics Study, 13-year-olds**  
**(30 core items—algebra)**

| Educational<br>system and<br>rank by mean | Number of items correct |                                           |                       | Mean<br>compared<br>with U.S. <sup>2</sup> |
|-------------------------------------------|-------------------------|-------------------------------------------|-----------------------|--------------------------------------------|
|                                           | Mean                    | Standard<br>error of<br>mean <sup>1</sup> | Standard<br>deviation |                                            |
| Japan                                     | 60.3                    | 1.6                                       | --                    | higher                                     |
| France                                    | 55.0                    | 0.9                                       | --                    | higher                                     |
| Belgium (Flemish)                         | 52.9                    | 1.7                                       | --                    | higher                                     |
| Netherlands                               | 51.3                    | 1.2                                       | --                    | higher                                     |
| Hungary                                   | 50.4                    | 1.2                                       | --                    | higher                                     |
| Belgium (French)                          | 49.1                    | 2.0                                       | --                    | higher                                     |
| Canada (British Columbia)                 | 47.9                    | 1.4                                       | --                    | higher                                     |
| Israel                                    | 44.0                    | 1.6                                       | --                    | same                                       |
| Finland                                   | 43.6                    | 1.3                                       | --                    | same                                       |
| Hong Kong                                 | 43.2                    | 0.8                                       | --                    | same                                       |
| Scotland                                  | 42.9                    | 0.7                                       | --                    | same                                       |
| <b>United States</b>                      | 42.1                    | 1.2                                       | --                    | U.S.                                       |
| Canada (Ontario)                          | 42.0                    | 0.7                                       | --                    | same                                       |
| England and Wales                         | 40.1                    | 1.1                                       | --                    | same                                       |
| New Zealand                               | 39.4                    | 1.1                                       | --                    | same                                       |
| Thailand                                  | 37.7                    | 1.0                                       | --                    | same                                       |
| Nigeria                                   | 32.4                    | 1.7                                       | --                    | lower                                      |
| Sweden                                    | 32.3                    | 0.8                                       | --                    | lower                                      |
| Luxembourg                                | 31.2                    | 0.5                                       | --                    | lower                                      |
| Swaziland                                 | 25.1                    | 1.5                                       | --                    | lower                                      |

--Not available.

<sup>1</sup>Standard error calculated in Robitaille and Garden. Method not specified.

<sup>2</sup>Based on Bonferroni adjusted t-test for comparisons with the United States.

SOURCE: Data from David Robitaille and Robert Garden, eds., *The International Association for the Evaluation of Education Achievement (IEA) Study of Mathematics II: Contexts and Outcomes of School Mathematics*, Vol. II (Oxford: Pergamon Press, 1989), 105; U.S. Department of Education, Center for Education Statistics, Robert A. Garden, *Second IEA Mathematics Study: Sampling Report* (Washington, DC, March 1987), 115; U.S. Department of Education, National Center for Education Statistics, *Digest of Education Statistics* (Washington, DC, 1989), 389.

**Table B.6**  
**Mean scores and means compared with United States:**  
**Second International Mathematics Study, 13-year-olds**  
**(39 core items—geometry)**

| Educational<br>system and<br>rank by mean | Number of items correct |                                           |                       | Mean<br>compared<br>with U.S. <sup>2</sup> |
|-------------------------------------------|-------------------------|-------------------------------------------|-----------------------|--------------------------------------------|
|                                           | Mean                    | Standard<br>error of<br>mean <sup>1</sup> | Standard<br>deviation |                                            |
| Japan                                     | 57.6                    | 1.3                                       | --                    | higher                                     |
| Hungary                                   | 53.4                    | 1.0                                       | --                    | higher                                     |
| Netherlands                               | 52.0                    | 1.0                                       | --                    | higher                                     |
| Scotland                                  | 45.5                    | 0.6                                       | --                    | higher                                     |
| England and Wales                         | 44.8                    | 0.8                                       | --                    | higher                                     |
| New Zealand                               | 44.8                    | 1.0                                       | --                    | higher                                     |
| Canada (Ontario)                          | 43.2                    | 0.7                                       | --                    | higher                                     |
| Finland                                   | 43.2                    | 1.2                                       | --                    | higher                                     |
| Belgium (French)                          | 42.8                    | 1.5                                       | --                    | same                                       |
| Belgium (Flemish)                         | 42.5                    | 1.1                                       | --                    | higher                                     |
| Hong Kong                                 | 42.5                    | 0.5                                       | --                    | higher                                     |
| Canada (British Columbia)                 | 42.3                    | 1.2                                       | --                    | same                                       |
| Sweden                                    | 39.4                    | 0.8                                       | --                    | same                                       |
| Thailand                                  | 39.3                    | 0.9                                       | --                    | same                                       |
| France                                    | 38.0                    | 0.8                                       | --                    | same                                       |
| United States                             | 37.8                    | 0.9                                       | --                    | U.S.                                       |
| Israel                                    | 35.9                    | 1.4                                       | --                    | same                                       |
| Swaziland                                 | 31.1                    | 1.3                                       | --                    | lower                                      |
| Nigeria                                   | 26.2                    | 0.8                                       | --                    | lower                                      |
| Luxembourg                                | 25.3                    | 0.4                                       | --                    | lower                                      |

--Not available.

<sup>1</sup>Standard error calculated in Robitaille and Garden. Method not specified.

<sup>2</sup>Based on Bonferroni adjusted t-test for comparisons with the United States.

SOURCE: Data from David Robitaille and Robert Garden, eds., *The International Association for the Evaluation of Education Achievement (IEA) Study of Mathematics II: Contexts and Outcomes of School Mathematics*, Vol. II (Oxford: Pergamon Press, 1989), 105; U.S. Department of Education, Center for Education Statistics, Robert A. Garden, *Second IEA Mathematics Study: Sampling Report* (Washington, DC, March 1987), 115; U.S. Department of Education, National Center for Education Statistics, *Digest of Education Statistics* (Washington, DC, 1989), 389.

**Table B.7**  
**Mean scores and means compared with United States:**  
**Second International Mathematics Study, 13-year-olds**  
**(24 core items—measurement)**

| Educational<br>system and<br>rank by mean | Number of items correct |                                           |                       | Mean<br>compared<br>with U.S. <sup>2</sup> |
|-------------------------------------------|-------------------------|-------------------------------------------|-----------------------|--------------------------------------------|
|                                           | Mean                    | Standard<br>error of<br>mean <sup>1</sup> | Standard<br>deviation |                                            |
| Japan                                     | 68.6                    | 1.3                                       | --                    | higher                                     |
| Hungary                                   | 62.1                    | 1.4                                       | --                    | higher                                     |
| Netherlands                               | 61.9                    | 1.0                                       | --                    | higher                                     |
| France                                    | 59.5                    | 0.9                                       | --                    | higher                                     |
| Belgium (Flemish)                         | 58.2                    | 1.3                                       | --                    | higher                                     |
| Belgium (French)                          | 56.8                    | 1.5                                       | --                    | higher                                     |
| Hong Kong                                 | 52.6                    | 0.4                                       | --                    | higher                                     |
| Canada (British Columbia)                 | 51.9                    | 1.3                                       | --                    | higher                                     |
| Finland                                   | 51.3                    | 1.2                                       | --                    | higher                                     |
| Canada (Ontario)                          | 50.8                    | 0.9                                       | --                    | higher                                     |
| Luxembourg                                | 50.1                    | 0.4                                       | --                    | higher                                     |
| Sweden                                    | 48.7                    | 1.0                                       | --                    | higher                                     |
| England and Wales                         | 48.6                    | 0.9                                       | --                    | higher                                     |
| Scotland                                  | 48.4                    | 0.7                                       | --                    | higher                                     |
| Thailand                                  | 48.3                    | 1.1                                       | --                    | higher                                     |
| Israel                                    | 46.4                    | 1.2                                       | --                    | higher                                     |
| New Zealand                               | 45.1                    | 1.1                                       | --                    | higher                                     |
| <b>United States</b>                      | 40.8                    | 0.9                                       | --                    | U.S.                                       |
| Swaziland                                 | 35.2                    | 1.3                                       | --                    | lower                                      |
| Nigeria                                   | 30.7                    | 1.1                                       | --                    | lower                                      |

--Not available.

<sup>1</sup>Standard error calculated in Robitaille and Garden. Method not specified.

<sup>2</sup>Based on Bonferroni adjusted t-test for comparisons with the United States.

SOURCE: Data from David Robitaille and Robert Garden, eds., *The International Association for the Evaluation of Education Achievement (IEA) Study of Mathematics II: Contexts and Outcomes of School Mathematics*, Vol. II (Oxford: Pergamon Press, 1989), 105; U.S. Department of Education, Center for Education Statistics, Robert A. Garden, *Second IEA Mathematics Study: Sampling Report* (Washington, DC, March 1987), 115; U.S. Department of Education, National Center for Education Statistics, *Digest of Education Statistics* (Washington, DC, 1989), 389.

**Table B.8**  
**Mean scores and means compared with United States:**  
**Second International Mathematics Study, 13-year-olds**  
**(18 core items—descriptive statistics)**

| Educational<br>system and<br>rank by mean | Number of items correct |                                           |                       | Mean<br>compared<br>with U.S. <sup>2</sup> |
|-------------------------------------------|-------------------------|-------------------------------------------|-----------------------|--------------------------------------------|
|                                           | Mean                    | Standard<br>error of<br>mean <sup>1</sup> | Standard<br>deviation |                                            |
| Japan                                     | 70.9                    | 1.5                                       | --                    | higher                                     |
| Netherlands                               | 65.9                    | 0.9                                       | --                    | higher                                     |
| Canada (British Columbia)                 | 61.3                    | 1.3                                       | --                    | same                                       |
| Hungary                                   | 60.4                    | 1.4                                       | --                    | same                                       |
| England and Wales                         | 60.2                    | 0.9                                       | --                    | same                                       |
| Scotland                                  | 59.3                    | 0.5                                       | --                    | same                                       |
| Belgium (Flemish)                         | 58.2                    | 1.5                                       | --                    | same                                       |
| United States                             | 57.7                    | 1.1                                       | --                    | U.S.                                       |
| Finland                                   | 57.6                    | 1.1                                       | --                    | same                                       |
| France                                    | 57.4                    | 1.0                                       | --                    | same                                       |
| New Zealand                               | 57.3                    | 1.1                                       | --                    | same                                       |
| Canada (Ontario)                          | 57.0                    | 1.0                                       | --                    | same                                       |
| Sweden                                    | 56.3                    | 1.1                                       | --                    | same                                       |
| Hong Kong                                 | 55.9                    | 0.6                                       | --                    | same                                       |
| Belgium (French)                          | 52.0                    | 1.7                                       | --                    | same                                       |
| Israel                                    | 51.9                    | 1.3                                       | --                    | lower                                      |
| Thailand                                  | 45.3                    | 1.0                                       | --                    | lower                                      |
| Luxembourg                                | 37.3                    | 0.4                                       | --                    | lower                                      |
| Nigeria                                   | 37.0                    | 1.3                                       | --                    | lower                                      |
| Swaziland                                 | 36.0                    | 1.7                                       | --                    | lower                                      |

--Not available.

<sup>1</sup>Standard error calculated in Robitaille and Garden. Method not specified.

<sup>2</sup>Based on Bonferroni adjusted t-test for comparisons with the United States.

SOURCE: Data from David Robitaille and Robert Garden, eds., *The International Association for the Evaluation of Education Achievement (IEA) Study of Mathematics II: Contexts and Outcomes of School Mathematics*, Vol. II (Oxford: Pergamon Press, 1989), 105; U.S. Department of Education, Center for Education Statistics, Robert A. Garden, *Second IEA Mathematics Study: Sampling Report* (Washington, DC, March 1987), 115; U.S. Department of Education, National Center for Education Statistics, *Digest of Education Statistics* (Washington, DC, 1989), 389.

**Table B.9**  
**Mean scores and means compared with United States:**  
**Second International Mathematics Study, Last year of secondary school**  
**(17 items—number systems)**

| Educational system and rank by mean | Percent of items correct |                                     |                    | Mean compared with U.S. <sup>3</sup> |
|-------------------------------------|--------------------------|-------------------------------------|--------------------|--------------------------------------|
|                                     | Mean <sup>1</sup>        | Standard error of mean <sup>2</sup> | Standard deviation |                                      |
| Hong Kong                           | 78                       | 1.5                                 | --                 | higher                               |
| Japan                               | 68                       | 1.1                                 | --                 | higher                               |
| Sweden                              | 62                       | 0.8                                 | --                 | higher                               |
| England and Wales                   | 59                       | 0.8                                 | --                 | higher                               |
| Finland                             | 57                       | 1.1                                 | --                 | higher                               |
| New Zealand                         | 51                       | 1.4                                 | --                 | higher                               |
| Belgium (Flemish)                   | 48                       | 1.1                                 | --                 | higher                               |
| Canada (Ontario)                    | 47                       | 0.9                                 | --                 | higher                               |
| Israel                              | 46                       | 1.5                                 | --                 | higher                               |
| Belgium (French)                    | 44                       | 1.5                                 | --                 | same                                 |
| Canada (British Columbia)           | 43                       | 1.3                                 | --                 | same                                 |
| United States                       | 40                       | 1.1                                 | --                 | U.S.                                 |
| Scotland                            | 39                       | 1.1                                 | --                 | same                                 |
| Thailand                            | 33                       | 1.2                                 | --                 | lower                                |
| Hungary                             | 28                       | 1.3                                 | --                 | lower                                |

--Not available.

<sup>1</sup>Data available rounded to nearest whole number.

<sup>2</sup>Standard error calculated in Robitaille and Garden. Method not specified.

<sup>3</sup>Based on Bonferroni adjusted t-test for comparisons with the United States.

SOURCE: Data from David Robitaille and Robert Garden, eds., *The International Association for the Evaluation of Education Achievement (IEA) Study of Mathematics II: Contexts and Outcomes of School Mathematics*, Vol. II (Oxford: Pergamon Press, 1989), 130; U.S. Department of Education, Center for Education Statistics, Robert A. Garden, *Second IEA Mathematics Study: Sampling Report* (Washington, DC, March 1987), 120; Curtis C. McKnight et al., *The Underachieving Curriculum* (Champaign: Sûpes, 1989), 125.

**Table B.10**

Mean scores and means compared with United States:  
 Second International Mathematics Study, Last year of secondary school  
 (26 items—algebra)

| Educational<br>system and<br>rank by mean | Percent of items correct |                                           |                       | Mean<br>compared<br>with U.S. <sup>3</sup> |
|-------------------------------------------|--------------------------|-------------------------------------------|-----------------------|--------------------------------------------|
|                                           | Mean <sup>1</sup>        | Standard<br>error of<br>mean <sup>2</sup> | Standard<br>deviation |                                            |
| Hong Kong                                 | 78                       | 1.4                                       | --                    | higher                                     |
| Japan                                     | 78                       | 1.0                                       | --                    | higher                                     |
| Finland                                   | 69                       | 0.8                                       | --                    | higher                                     |
| England and Wales                         | 66                       | 0.6                                       | --                    | higher                                     |
| Belgium (Flemish)                         | 60                       | 1.2                                       | --                    | higher                                     |
| Sweden                                    | 61                       | 0.8                                       | --                    | higher                                     |
| Israel                                    | 60                       | 1.5                                       | --                    | higher                                     |
| New Zealand                               | 57                       | 1.2                                       | --                    | higher                                     |
| Canada (Ontario)                          | 57                       | 1.0                                       | --                    | higher                                     |
| Belgium (French)                          | 55                       | 1.6                                       | --                    | higher                                     |
| Scotland                                  | 48                       | 0.9                                       | --                    | higher                                     |
| Canada (British Columbia)                 | 47                       | 1.4                                       | --                    | same                                       |
| Hungary                                   | 45                       | 1.5                                       | --                    | same                                       |
| United States                             | 43                       | 1.2                                       | --                    | U.S.                                       |
| Thailand                                  | 38                       | 1.4                                       | --                    | same                                       |

--Not available.

<sup>1</sup>Data available rounded to nearest whole number.

<sup>2</sup>Standard error calculated in Robitaille and Garden. Method not specified.

<sup>3</sup>Based on Bonferroni adjusted t-test for comparisons with the United States.

SOURCE: Data from David Robitaille and Robert Garden, eds., *The International Association for the Evaluation of Education Achievement (IEA) Study of Mathematics II: Contexts and Outcomes of School Mathematics*, Vol. II (Oxford: Pergamon Press, 1989), 130; U.S. Department of Education, Center for Education Statistics, Robert A. Garden, *Second IEA Mathematics Study: Sampling Report* (Washington, DC, March 1987), 120; Curtis C. McKnight et al., *The Underachieving Curriculum* (Champaign: Stipes, 1989), 125.


**SAT  
Program**


## Mean SAT/SAT I Scores for College-Bound Seniors, 1972-1999

| Year | Verbal |        |       |  | Math |        |       |
|------|--------|--------|-------|--|------|--------|-------|
|      | Male   | Female | Total |  | Male | Female | Total |
| 1972 | 531    | 529    | 530   |  | 527  | 489    | 509   |
| 1973 | 523    | 521    | 523   |  | 525  | 489    | 506   |
| 1974 | 524    | 520    | 521   |  | 524  | 488    | 505   |
| 1975 | 515    | 509    | 512   |  | 518  | 479    | 498   |
| 1976 | 511    | 508    | 509   |  | 520  | 475    | 497   |
| 1977 | 509    | 505    | 507   |  | 520  | 474    | 496   |
| 1978 | 511    | 503    | 507   |  | 517  | 474    | 494   |
| 1979 | 509    | 501    | 505   |  | 516  | 473    | 493   |
| 1980 | 506    | 498    | 502   |  | 515  | 473    | 492   |
| 1981 | 508    | 496    | 502   |  | 516  | 473    | 492   |
| 1982 | 509    | 499    | 504   |  | 516  | 473    | 493   |
| 1983 | 508    | 498    | 503   |  | 516  | 474    | 494   |
| 1984 | 511    | 498    | 504   |  | 518  | 478    | 497   |
| 1985 | 514    | 503    | 509   |  | 522  | 480    | 500   |
| 1986 | 515    | 504    | 509   |  | 523  | 479    | 500   |
| 1987 | 512    | 502    | 507   |  | 523  | 481    | 501   |
| 1988 | 512    | 499    | 505   |  | 521  | 483    | 501   |
| 1989 | 510    | 498    | 504   |  | 523  | 482    | 502   |
| 1990 | 505    | 496    | 500   |  | 521  | 483    | 501   |
| 1991 | 503    | 495    | 499   |  | 520  | 482    | 500   |
| 1992 | 504    | 496    | 500   |  | 521  | 484    | 501   |
| 1993 | 504    | 497    | 500   |  | 524  | 484    | 503   |
| 1994 | 501    | 497    | 499   |  | 523  | 487    | 504   |
| 1995 | 505    | 502    | 504   |  | 525  | 490    | 506   |
| 1996 | 507    | 503    | 505   |  | 527  | 492    | 508   |
| 1997 | 507    | 503    | 505   |  | 530  | 494    | 511   |
| 1998 | 509    | 502    | 505   |  | 531  | 496    | 512   |
| 1999 | 509    | 502    | 505   |  | 531  | 495    | 511   |

\*For 1972-1986, a formula was applied to the original mean and standard deviation to convert the mean to the recentered scale. For 1987-1995, individual student scores were converted to the recentered scale and then the mean was recomputed. For 1996-1999 most students received scores on the recentered scale. (Any score on the original scale was converted to the recentered scale prior to recomputing the mean.)

# **EDUCATION REFORMS THAT PRODUCE RESULTS**

## ***STUDENTS ARE TAKING TOUGHER CLASSES***

- This year 63 percent of students took a core curriculum (4 years of English, 3 years each of social studies, science and math). Ten years ago, just 46 percent did. [ACT, 8/17/99] The number of students taking AP exams increased to 704,000 in 1999. In 1995 only 476,000 took AP tests. [The College Board, 8/31/99; 8/22/96]

## ***HIGHER READING AND MATH SCORES AT ALL LEVELS***

- Average reading scores increased for students in grades 4, 8, and 12. At the fourth and twelfth grades, the national average score was higher in 1998 than in 1994. At eighth grade, the national average score was higher in 1998 than in 1994 and in 1992. [NAEP 1998 Reading Report Card]
- Students' scores on the NAEP mathematics scale increased for all three grades. Scores were higher in 1996 than in 1992 for all three grades, and higher in 1992 than in 1990. The national average scale score for fourth graders in 1996 was 224, an increase of 11 points over the national average for 1990; the average for eighth graders in 1996 was 272, an increase of 9 points; and the average score for twelfth graders was 304, also an increase of 10 points. [NAEP 1996 Mathematics Report Card]

## ***COLLEGE ENTRANCE SCORES ARE UP***

- Last year's (1998) SAT math scores were the highest in 27 years. Verbal scores were the highest in 10 years, and have increased 5 points since 1992. Combined SAT scores have increased by 15 points since '92. [The College Board, 9/1/98; 8/31/99]. Average ACT scores have also increased significantly over the past seven years after remaining virtually flat between 1980-92. [ACT, 8/17/99].

## ***FEWER DROPOUTS***

- The percentage of students who drop out of high school has dropped from 5.3 percent in 1994 to 4.6 percent in 1997. The largest improvements came among African American and lower-income students. [NCES, The Condition of Education: 1999, p. 110]. The percentage of young adults who have completed high school is the highest level ever reported. Today, 88.1 percent of 25-29 year olds have completed high school. The number has increased from 86.3 percent in 1992. [NCES, The Condition of Education: 1998]

## ***MORE STUDENTS ARE GOING TO COLLEGE***

- Between 1992-97, the percentage of high school graduates going to college increased from 61.9 percent to 67.0 percent. The percentage of African American and Hispanic graduates going to college has increased by 10 points since 1992 and is now at its highest point ever. Low-income students are also much more likely to attend college. Today 57.0 percent of low-income graduates go on to college. In 1992, just 40.9 percent did. [NCES, The Condition of Education: 1999, p. 128]

## ***MORE STUDENTS GRADUATING FROM COLLEGE***

- The proportion of Americans with four years of college is at an all-time high. Today, 31.8 percent of Americans have completed at least four years of college. This is a 16 percent increase over 1992. [NCES, Condition of Education: 1999, p. 126].

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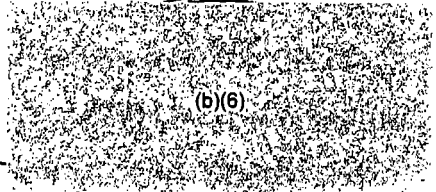
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 >  
 > FOR IMMEDIATE RELEASE CONTACT: Ari Fleischer 512/637-7777  
 > Friday, March 17, 2000  
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 > Ad Spotlights Crusade to Improve Education  
 >  
 > AUSTIN, TX-The Bush for President campaign Friday unveiled  
 > "Challenge the Status Quo", a new ad that will begin airing in four key  
 > swing states: Illinois, Iowa, Kentucky and Missouri.  
 >  
 > "Governor Bush believes education is the key to America's future,"  
 > said Bush spokesman Ari Fleischer. "Governor Bush has a record of  
 > education reform in Texas and a plan to improve education for all American  
 > children. He understands the importance of reading and will make it a  
 > priority in a Bush Administration. Al Gore supports the status quo."  
 >  
 > GEORGE W. BUSH FOR PRESIDENT  
 > "CHALLENGE THE STATUS QUO"  
 > :60 TV  
 >  
 > ANNOUNCER:  
 > Is the status quo in America's schools good enough?  
 >  
 > Under Al Gore and Bill Clinton, national reading scores stagnated.  
 > America's  
 > high school students place almost dead last in international math tests.  
 > The  
 > achievement gap between poor and non-poor students remains wide.  
 >  
 > Gore and Clinton had eight years, but they've failed.  
 >  
 > As President, George W. Bush will challenge the status quo with a crusade  
 > to  
 > improve education. He'll fight for reforms hailed as the most fundamental  
 > in  
 > a generation: demand high standards and accountability for students and  
 > teachers, restore local control of schools, increase funding but change

1981-1992

not true

> the  
> system so successful schools are rewarded and failing ones must improve.  
>  
> He'll turn Head Start into a reading program and close the achievement gap  
>  
> that hurts those on the edges of poverty. His goal? Teach every child to  
>  
> read because there are no second rate children, no second rate dreams.  
>  
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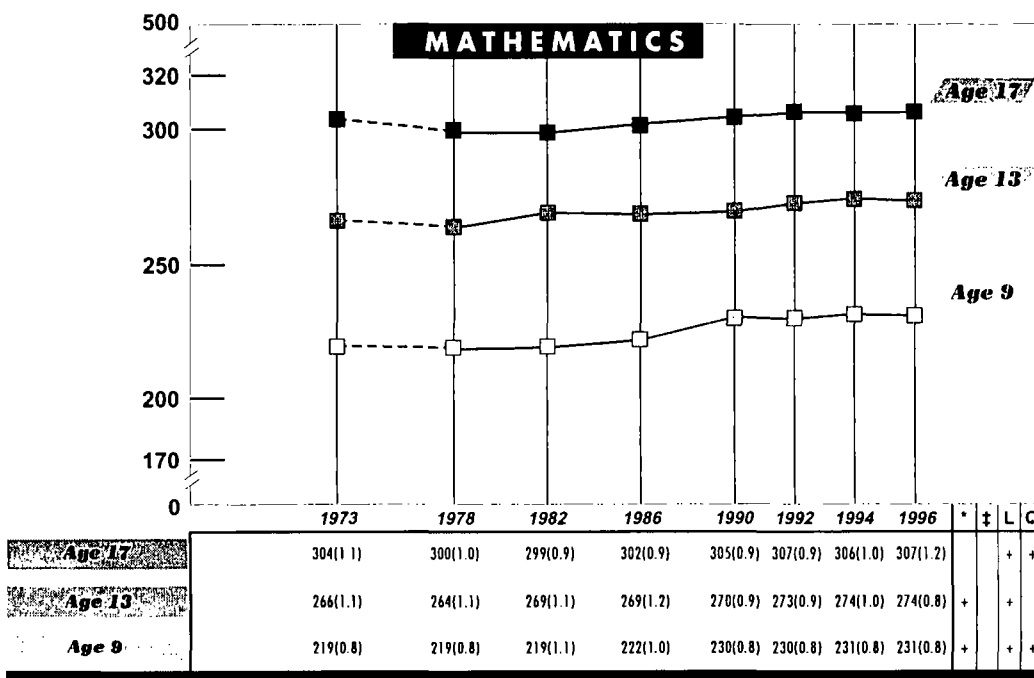
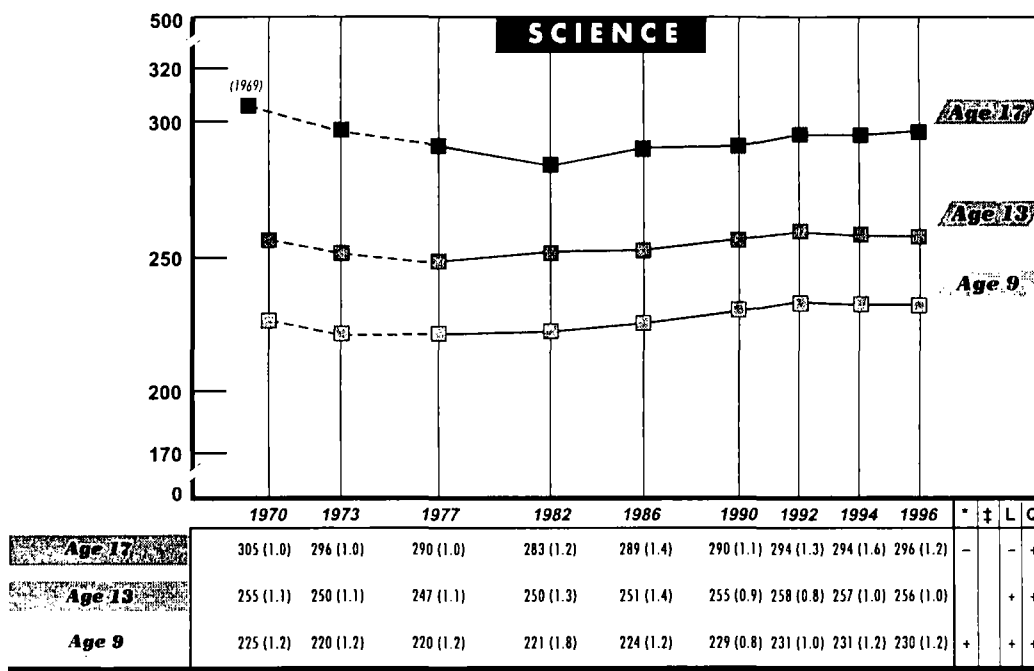
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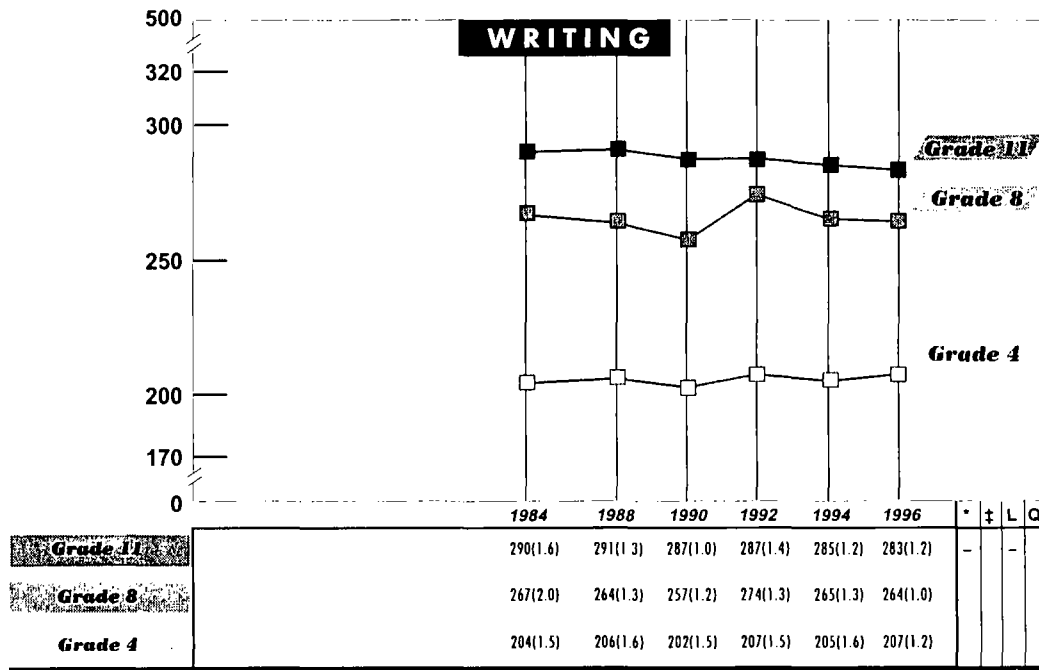
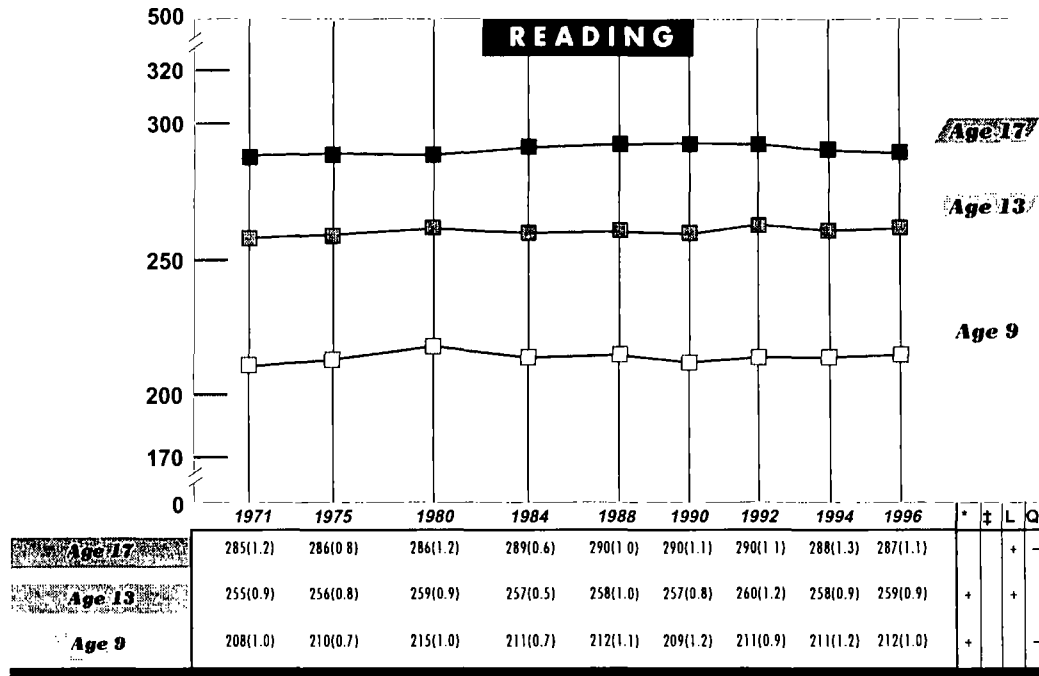
**Figure 1**

# **Trends in Average Scale Scores for the Nation**



**Figure 1**  
(continued)

## Trends in Average Scale Scores for the Nation



Standard errors of the estimated scale scores appear in parentheses. [ - - ] Extrapolated from previous NAEP analyses.

\* Indicates that the average scale score in 1996 is significantly larger (+) or smaller (-) than that in the first assessment year.

† Indicates that the average scale score in 1996 is significantly larger (+) or smaller (-) than that in 1994.

L Indicates that the positive (+) or negative (-) linear trend is significant.

Q Indicates that the positive (+) or negative (-) quadratic trend is significant.

SOURCE: National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1996 Long-Term Trend Assessment.

**Table 3**

# Percentages of Students Performing At or Above Reading Performance Levels, Ages 9, 13, and 17, 1971 and 1996



| Level |                                                                                  | AGE 9           |                 | AGE 13          |                 | AGE 17          |                 |
|-------|----------------------------------------------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|       |                                                                                  | Percent in 1971 | Percent in 1996 | Percent in 1971 | Percent in 1996 | Percent in 1971 | Percent in 1996 |
| 350   | Can synthesize and learn from specialized reading materials                      | 0 (***)         | 0 (***)         | 0 (0.0)         | 1 (0.2) *       | 7 (0.4)         | 6 (0.8)         |
| 300   | Can find, understand, summarize, and explain relatively complicated information  | 1 (0.1)         | 1 (0.3)         | 10 (0.5)        | 14 (1.0) *      | 39 (1.0)        | 39 (1.4)        |
| 250   | Can search for specific information, interrelate ideas, and make generalizations | 16 (0.6)        | 18 (0.8) *      | 58 (1.1)        | 61 (1.3) *      | 79 (0.9)        | 81 (0.9) *      |
| 200   | Can comprehend specific or sequentially related information                      | 59 (1.0)        | 64 (1.2) *      | 93 (0.5)        | 93 (0.6)        | 96 (0.3)        | 97 (0.5) *      |
| 150   | Can carry out simple, discrete reading tasks                                     | 91 (0.5)        | 93 (0.7) *      | 100 (0.0)       | 100 (0.1)       | 100 (0.1)       | 100 (***)       |

Standard errors of the estimated percentages appear in parentheses. When no standard error appears (\*\*\*) , standard error estimates may not be accurately determined and/or the sampling distribution of the statistic does not match statistical test assumptions. In these cases statistical tests have not been conducted.

\* Indicates that the percentage in 1996 is significantly different than that in 1971.

SOURCE: National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1996 Long-Term Trend Assessment.

WHAT IS NAEP?

PUBLICATIONS

SAMPLE QUESTIONS

▶ NAEP PARTICIPATION



The  
Nation's  
Report  
Card

# State NAEP

• HELP

• SEARCH

• CONTACT US

WHAT'S NEW

▶ STATE NAEP

NATIONAL NAEP

BENEFITS OF PARTICIPATION

## Schedule for the State and National Assessment of Educational Progress from 1969 - 2010

The National Assessment Governing Board approved the following schedule from 1990 through 2010 on March 8, 1997 and revised November 1998.

The schedule for 1999 and beyond assumes continuing legislative authority and is based on conservative estimates of costs and anticipated appropriations. The schedule may be augmented, with advance public notice, as resources permit.

### State NAEP

- Timeline
- How States Join
- How Sample is Determined
- Roles & Responsibilities
- History of Participation
- Participation Rate Requirements

| YEAR    | NATIONAL                                                  | LONG TERM TREND                                    | STATE                           |
|---------|-----------------------------------------------------------|----------------------------------------------------|---------------------------------|
| 1969-70 | Citizenship<br>Science<br>Writing                         | Science <sup>1</sup>                               | STATE ASSESSMENTS BEGAN IN 1990 |
| 1970-71 | Literature<br>Reading                                     | Reading <sup>1</sup>                               |                                 |
| 1971-72 | Music<br>Social Studies                                   |                                                    |                                 |
| 1972-73 | Mathematics<br>Science                                    | Mathematics <sup>1</sup> ,<br>Science <sup>1</sup> |                                 |
| 1973-74 | Career &<br>Occupational<br>Development<br>Writing        |                                                    |                                 |
| 1974-75 | Art<br>Index of Basic<br>Skills<br>Reading                | Reading <sup>1</sup>                               |                                 |
| 1975-76 | Citizenship/Social<br>Studies<br>Mathematics <sup>2</sup> | Citizenship/Social<br>Studies <sup>1</sup>         |                                 |
| 1976-77 | Basic Life Skills <sup>2</sup><br>Science                 | Science <sup>1</sup>                               |                                 |
| 1977-78 | Consumer Skills <sup>2</sup><br>Mathematics               | Mathematics <sup>1</sup>                           |                                 |
| 1978-79 | Art<br>Music<br>Writing                                   |                                                    |                                 |
| 1979-80 | Reading<br>Literature<br>Art                              | Reading <sup>1</sup>                               |                                 |

|                      |                                                                                                                     |                                                                       |                                                                |
|----------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------|
| 1981-82 <sup>3</sup> | Mathematics<br>Science<br>Citizenship<br>Social Studies                                                             | Mathematics <sup>1</sup> ,<br>Science <sup>1</sup>                    |                                                                |
| 1984                 | Reading<br>Writing                                                                                                  | Reading, Writing                                                      |                                                                |
| 1986                 | Computer<br>Competence<br>U.S. History <sup>2</sup><br>Literature <sup>2</sup><br>Mathematics<br>Science<br>Reading | Mathematics,<br>Science, Reading <sup>4</sup>                         |                                                                |
| 1988                 | Civics<br>Document<br>Literacy <sup>2</sup><br>Geography <sup>2</sup><br>U.S. History<br>Reading<br>Writing         | Civics <sup>1</sup> ,<br>Mathematics,<br>Science, Reading,<br>Writing |                                                                |
| 1990                 | Mathematics<br>Science<br>Reading                                                                                   | Mathematics,<br>Science, Reading,<br>Writing                          | Mathematics <sup>5</sup> (8)                                   |
| 1992                 | Mathematics<br>Reading<br>Writing                                                                                   | Mathematics,<br>Science, Reading,<br>Writing                          | Mathematics <sup>5</sup> (4,<br>8)<br>Reading <sup>5</sup> (4) |
| 1994                 | Geography<br>U.S. History<br>Reading                                                                                | Mathematics,<br>Science, Reading,<br>Writing                          | Reading <sup>5</sup> (4)                                       |
| 1996                 | Mathematics<br>Science                                                                                              | Reading, Writing,<br>Mathematics,<br>Science                          | Mathematics (4, 8)<br>Science (8)                              |
| 1997                 | Arts (8)                                                                                                            |                                                                       |                                                                |
| 1998                 | Reading<br>Writing<br>Civics                                                                                        |                                                                       | Reading (4, 8)<br>Writing (8)                                  |
| 1999                 |                                                                                                                     | Reading, Writing,<br>Mathematics,<br>Science                          |                                                                |
| 2000                 | Mathematics<br>Science<br>Reading (4)                                                                               |                                                                       | Mathematics (4, 8)<br>Science (4, 8)                           |
| 2001                 | U.S. History<br>Geography                                                                                           |                                                                       |                                                                |
| 2002                 | Reading<br>Writing                                                                                                  |                                                                       | Reading (4, 8)<br>Writing (4, 8)                               |
| 2003                 | Civics<br>Foreign<br>Language(12)                                                                                   | Reading, Writing,<br>Mathematics,<br>Science                          |                                                                |
| 2004                 | Mathematics<br>Science                                                                                              |                                                                       | Mathematics (4, 8)<br>Science (4, 8)                           |
| 2005                 | World History (12)<br>Economics (12)                                                                                |                                                                       |                                                                |

|      |                           |                                              |                                      |
|------|---------------------------|----------------------------------------------|--------------------------------------|
| 2006 | Reading<br>Writing        |                                              | Reading (4, 8)<br>Writing (4, 8)     |
| 2007 | Arts                      | Reading, Writing,<br>Mathematics,<br>Science |                                      |
| 2008 | Mathematics<br>Science    |                                              | Mathematics (4, 8)<br>Science (4, 8) |
| 2009 | U.S. History<br>Geography |                                              |                                      |
| 2010 | Reading<br>Writing        |                                              | Reading (4, 8)<br>Writing (4, 8)     |

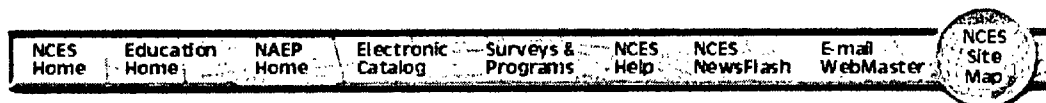
<sup>1</sup> This assessment appears in reports as part of long-term trend. Note that the civics assessment in 1988 is the third point in trend with Citizenship/Social Studies in 1981-82 and in 1975-76. There are no points on the trend line for Writing before 1984.

<sup>2</sup> This was a small, special-interest assessment administered to limited national samples at specific grades or ages and was not part of a main assessment. Note that this chart includes only assessments administered to in-school samples; not shown are several special NAEP assessments of adults.

<sup>3</sup> Explanation of format for Year column: Before 1984, the main NAEP assessments were administered in the fall of one year through the spring of the next. Beginning with 1984, the main NAEP was administered after the new year in the winter, although the assessments to measure long-term trend continued with their traditional administration in fall, winter, and spring. Because the main assessment is the largest component of NAEP, beginning with 1984 we have listed its administration year rather than the two years over which trend continued to be administered. Note also that the state component is administered at essentially the same time as the main NAEP.

<sup>4</sup> The 1986 long-term trend Reading assessment is not included on the trend line in reports because the results for this assessment were unusual. Further information on this reading anomaly is available in Beaton and Zwick (1990).

<sup>5</sup> State assessments in 1990-94 were referred to as Trial State Assessments (TSA).



**Table B.11**  
**Mean scores and means compared with United States:**  
**Second International Mathematics Study, Last year of secondary school**  
**(26 items—geometry)**

| Educational<br>system and<br>rank by mean | Percent of items correct |                                           |                       | Mean<br>compared<br>with U.S. <sup>3</sup> |
|-------------------------------------------|--------------------------|-------------------------------------------|-----------------------|--------------------------------------------|
|                                           | Mean <sup>1</sup>        | Standard<br>error of<br>mean <sup>2</sup> | Standard<br>deviation |                                            |
| Hong Kong                                 | 65                       | 1.4                                       | --                    | higher                                     |
| Japan                                     | 60                       | 1.1                                       | --                    | higher                                     |
| England and Wales                         | 51                       | 0.5                                       | --                    | higher                                     |
| Sweden                                    | 49                       | 0.5                                       | --                    | higher                                     |
| Finland                                   | 48                       | 0.8                                       | --                    | higher                                     |
| New Zealand                               | 43                       | 1.0                                       | --                    | higher                                     |
| Scotland                                  | 42                       | 0.8                                       | --                    | higher                                     |
| Canada (Ontario)                          | 42                       | 0.7                                       | --                    | higher                                     |
| Belgium (Flemish)                         | 42                       | 1.1                                       | --                    | higher                                     |
| Belgium (French)                          | 38                       | 1.3                                       | --                    | higher                                     |
| Israel                                    | 35                       | 1.5                                       | --                    | same                                       |
| <b>United States</b>                      | 31                       | 1.0                                       | --                    | U. S.                                      |
| Hungary                                   | 30                       | 1.1                                       | --                    | same                                       |
| Canada (British Columbia)                 | 30                       | 1.2                                       | --                    | same                                       |
| Thailand                                  | 28                       | 0.9                                       | --                    | same                                       |

--Not available.

<sup>1</sup>Data available rounded to nearest whole number.

<sup>2</sup>Standard error calculated in Robitaille and Garden. Method not specified.

<sup>3</sup>Based on Bonferroni adjusted t-test for comparisons with the United States.

SOURCE: Data from David Robitaille and Robert Garden, eds., *The International Association for the Evaluation of Education Achievement (IEA) Study of Mathematics II: Contexts and Outcomes of School Mathematics*, Vol. II (Oxford: Pergamon Press, 1989), 130; U.S. Department of Education, Center for Education Statistics, Robert A. Garden, *Second IEA Mathematics Study: Sampling Report* (Washington, DC, March 1987), 120; Curtis C. McKnight et al., *The Underachieving Curriculum* (Champaign: Supes, 1989), 125.

**Table B.12**  
**Mean scores and means compared with United States:**  
**Second International Mathematics Study, Last year of secondary school**  
**(46 items—elementary functions and calculus)**

| Educational<br>system and<br>rank by mean | Percent of items correct |                                           |                       | Mean<br>compared<br>with U.S. <sup>3</sup> |
|-------------------------------------------|--------------------------|-------------------------------------------|-----------------------|--------------------------------------------|
|                                           | Mean <sup>1</sup>        | Standard<br>error of<br>mean <sup>2</sup> | Standard<br>deviation |                                            |
| Hong Kong                                 | 71                       | 1.9                                       | --                    | higher                                     |
| Japan                                     | 66                       | 1.5                                       | --                    | higher                                     |
| England and Wales                         | 58                       | 0.6                                       | --                    | higher                                     |
| Finland                                   | 55                       | 1.1                                       | --                    | higher                                     |
| Sweden                                    | 51                       | 0.8                                       | --                    | higher                                     |
| New Zealand                               | 48                       | 1.1                                       | --                    | higher                                     |
| Canada (Ontario)                          | 46                       | 1.0                                       | --                    | higher                                     |
| Belgium (Flemish)                         | 46                       | 1.1                                       | --                    | higher                                     |
| Israel                                    | 45                       | 1.6                                       | --                    | higher                                     |
| Belgium (French)                          | 43                       | 1.4                                       | --                    | higher                                     |
| Scotland                                  | 32                       | 0.9                                       | --                    | same                                       |
| United States                             | 29                       | 1.2                                       | --                    | U.S.                                       |
| Thailand                                  | 26                       | 0.8                                       | --                    | same                                       |
| Hungary                                   | 26                       | 1.1                                       | --                    | same                                       |
| Canada (British Columbia)                 | 21                       | 1.0                                       | --                    | lower                                      |

--Not available.

<sup>1</sup>Data available rounded to nearest whole number.

<sup>2</sup>Standard error calculated in Robitaille and Garden. Method not specified.

<sup>3</sup>Based on Bonferroni adjusted t-test for comparisons with the United States.

SOURCE: Data from David Robitaille and Robert Garden, eds., *The International Association for the Evaluation of Education Achievement (IEA) Study of Mathematics II: Contexts and Outcomes of School Mathematics*, Vol. II (Oxford: Pergamon Press, 1989), 130; U.S. Department of Education, Center for Education Statistics, Robert A. Garden, *Second IEA Mathematics Study: Sampling Report* (Washington, DC, March 1987), 120; Curtis C. McKnight et al., *The Underachieving Curriculum* (Champaign: Stipes, 1989), 125.