

**Howard Elementary School**  
**1999-2007 Iowa Test of Basic Skills (ITBS) Mathematics Results**  
 By Normal Curve Equivalent (NCE) and Percentile Scores

**ITBS Testing Process**

The Iowa Test of Basic Skills (ITBS) and Iowa Test of Educational Development (ITED) were administered in February 2007 to all GIPS students in grades 3-9 and 11. These national norm-referenced achievement tests have been given for the past nine years, with a switch to Form A in the 2003-04 school year to better accommodate special needs students. The ITBS/ITED results are reported by grade level in four areas: Reading, Language, Mathematics, and Core (the composite of the three subtests). The 2006-07 group results include 4,406 GIPS students within the eight grade levels (3-9 & 11). An additional 53 students (18 at ES; 31 at MS; and 4 at HS) were tested, but not included in the group results because they enrolled after January 1, 2007. Only 36 (less than one percent) of eligible students were not tested, with 23 students absent during the testing period and 32 students who did not test for various other reasons.

|                            | Number of Students |       |       |       |       |       |       |       | Math Concepts & Estimation |       |       |       |       |       |       |       | Math Problem Solving & Data |       |       |       |       |       |       |       | Mathematics Total |       |       |       |       |       |       |       | Math Computation |       |       |       |       |       |       |       |
|----------------------------|--------------------|-------|-------|-------|-------|-------|-------|-------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|------------------|-------|-------|-------|-------|-------|-------|-------|
|                            | 06-07              | 05-06 | 04-05 | 03-04 | 02-03 | 01-02 | 00-01 | 99-00 | 06-07                      | 05-06 | 04-05 | 03-04 | 02-03 | 01-02 | 00-01 | 99-00 | 06-07                       | 05-06 | 04-05 | 03-04 | 02-03 | 01-02 | 00-01 | 99-00 | 06-07             | 05-06 | 04-05 | 03-04 | 02-03 | 01-02 | 00-01 | 99-00 | 06-07            | 05-06 | 04-05 | 03-04 | 02-03 | 01-02 | 00-01 | 99-00 |
| 3rd Grade (Actual NCE)     |                    |       |       |       |       |       |       | 48    | 44                         | 45    | 41    | 40    | 41    | 39    | 37    | 48    | 45                          | 46    | 46    | 40    | 43    | 45    | 36    | 48    | 44                | 45    | 43    | 40    | 42    | 42    | 35    | 47    | 37               | 45    | 44    | 39    | 46    | 42    | 41    |       |
| 3rd Grade (Actual %ile)    | 49                 | 53    | 52    | 60    | 54    | 51    | 40    | 52    | 47                         | 40    | 41    | 34    | 31    | 34    | 31    | 26    | 46                          | 41    | 42    | 42    | 32    | 39    | 42    | 26    | 46                | 39    | 41    | 37    | 31    | 36    | 36    | 26    | 44               | 27    | 40    | 39    | 31    | 44    | 36    | 34    |
| 3rd Grade (Predicted %ile) |                    |       |       |       |       |       |       | 46    | 36                         | 36    | 35    |       |       |       |       | 46    | 36                          | 35    | 35    |       |       |       |       | 46    | 35                | 35    | 35    | 30    | 36    | 39    | 34    | 47    | 40               | 39    | 39    |       |       |       |       |       |
| 3rd Grade (Difference)     |                    |       |       |       |       |       |       | 1     | 4                          | 5     | -1    |       |       |       |       | 0     | 5                           | 7     | 7     |       |       |       |       | 0     | 4                 | 6     | 2     | 1     | 0     | -3    | -8    | -3    | -13              | 1     | 0     |       |       |       |       |       |
| 4th Grade (Actual NCE)     |                    |       |       |       |       |       |       | 52    | 48                         | 47    | 39    | 43    | 40    | 35    | 33    | 47    | 43                          | 48    | 43    | 43    | 41    | 39    | 38    | 49    | 45                | 47    | 41    | 44    | 40    | 36    | 35    | 42    | 41               | 38    | 37    | 37    | 37    | 36    | 30    |       |
| 4th Grade (Actual %ile)    | 60                 | 51    | 65    | 49    | 48    | 46    | 51    | 52    | 53                         | 45    | 44    | 30    | 38    | 31    | 25    | 21    | 45                          | 38    | 45    | 36    | 37    | 35    | 32    | 30    | 48                | 42    | 45    | 33    | 38    | 33    | 27    | 25    | 36               | 33    | 28    | 27    | 27    | 27    | 25    | 16    |
| 4th Grade (Predicted %ile) |                    |       |       |       |       |       |       | 44    | 35                         | 39    | 34    |       |       |       |       | 47    | 37                          | 41    | 37    |       |       |       |       | 45    | 36                | 40    | 36    | 38    | 33    | 31    | 31    | 47    | 39               | 43    | 38    |       |       |       |       |       |
| 4th Grade (Difference)     |                    |       |       |       |       |       |       | 9     | 10                         | 5     | -4    |       |       |       |       | -2    | 1                           | 4     | -1    |       |       |       |       | 3     | 6                 | 5     | -3    | 0     | 0     | -4    | -6    | -11   | -6               | -15   | -11   |       |       |       |       |       |
| 5th Grade (Actual NCE)     |                    |       |       |       |       |       |       | 54    | 50                         | 46    | 46    | 33    | 32    | 37    | 38    | 50    | 47                          | 45    | 42    | 42    | 31    | 34    | 42    | 52    | 49                | 45    | 44    | 38    | 30    | 34    | 39    | 45    | 43               | 47    | 37    | 37    | 37    | 43    | 43    |       |
| 5th Grade (Actual %ile)    | 47                 | 68    | 44    | 53    | 45    | 56    | 48    | 38    | 58                         | 50    | 43    | 42    | 21    | 20    | 26    | 28    | 49                          | 44    | 40    | 35    | 35    | 19    | 24    | 38    | 53                | 47    | 41    | 38    | 28    | 19    | 24    | 32    | 40               | 36    | 45    | 26    | 26    | 27    | 38    | 38    |
| 5th Grade (Predicted %ile) |                    |       |       |       |       |       |       | 50    | 47                         | 37    | 35    |       |       |       |       | 52    | 49                          | 40    | 38    |       |       |       |       | 51    | 48                | 39    | 37    | 32    | 30    | 33    | 40    | 48    | 46               | 38    | 37    |       |       |       |       |       |
| 5th Grade (Difference)     |                    |       |       |       |       |       |       | 8     | 3                          | 6     | 7     |       |       |       |       | -3    | -5                          | 0     | -3    |       |       |       |       | 2     | -1                | 2     | 1     | -4    | -11   | -9    | -8    | -8    | -10              | 7     | -11   |       |       |       |       |       |
| Schoolwide (Actual NCE)    | 156                | 172   | 161   | 162   | 147   | 153   | 139   | 142   | 51.3                       | 47.6  | 46.1  | 42.0  | 38.8  | 37.2  | 36.7  | 35.6  | 48.2                        | 45.2  | 46.5  | 43.8  | 41.6  | 37.9  | 38.8  | 38.3  | 49.6              | 46.3  | 45.8  | 42.7  | 40.7  | 36.7  | 37.1  | 36.2  | 44.5             | 40.6  | 42.7  | 39.6  | 37.7  | 40.2  | 40.4  | 37.5  |
| Schoolwide (Actual %ile)   |                    |       |       |       |       |       |       | 52.5  | 45.5                       | 42.7  | 35.2  | 29.8  | 27.2  | 26.4  | 24.7  | 46.6  | 41.0                        | 43.4  | 38.4  | 34.5  | 28.3  | 29.8  | 29.0  | 49.3  | 43.1              | 42.1  | 36.5  | 33.0  | 26.4  | 27.0  | 25.6  | 39.7  | 32.8             | 36.5  | 31.1  | 28.0  | 32.1  | 32.5  | 27.7  |       |

These results are reported by mean normal curve equivalent (NCE) and mean percentile (%ile) scores.

**Summary Analysis**