June 2008

**DEPARTMENT OF EDUCATION**
2007–2008 School Year Reports

Dear School Board Members and School Personnel:

The Maine Educational Assessment (MEA) is the State's measure of student progress in achieving the State standards known as *Learning Results,* adopted by the Maine Legislature in 1997. These *Learning Results* established goals for what all students should know and be able to do at certain times in their school careers and are the basis for Grade Level/Span Expectations, which describe the assessment standards for each grade. The MEA is administered to students in all grades 3 through 8 to meet state assessment requirements and the requirements of the federal *No Child Left Behind* Act.

The 2007-2008 MEA summary reports contain the results of student achievement in reading and mathematics at all grades, science and technology at grades 4 and 8, and writing at grade 5 based on achievement standards set in 2006 and disaggregated by student and school characteristics. This report, together with MEA individual student and subject-specific class analysis reports, provides support for use in program evaluation and planning.

MEA results reflect scores based on test questions that are taken in common by the approximately 15,000 students in each grade level. Students' scores in each content area are based on answers to a combination of multiple-choice questions and questions that require students to construct an answer. The grade 5 writing reports provide information on a student's ability to respond to a prompt measuring narrative writing. More information about the design of the MEA is available at www.maine.gov/education/mea/index.htm.

I look forward to working with you in support of our continued efforts to improve the quality and effectiveness of the instructional opportunities designed to help all students achieve the high standards of the *Learning Results* and demonstrate that achievement through performance on the Maine Educational Assessment.

Sincerely,

Susan A. Gendron
Commissioner of Education

MEA
Maine Educational Assessment

# School Report
# Grade 4

Test Date: March 2008
Code: 12311619
SAU: MSAD 37
School: Harrington Elementary School

## Contents of the Report

The report is divided into two main sections including a section describing the students tested and a separate section for the results in each content area.

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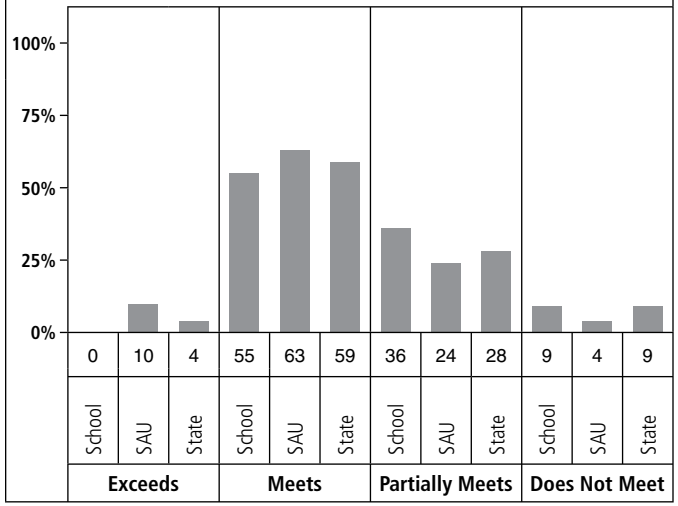
# SUMMARY OF SCORES

Test Date: March 2008
Grade: 4
SAU: MSAD 37
School: Harrington Elementary School

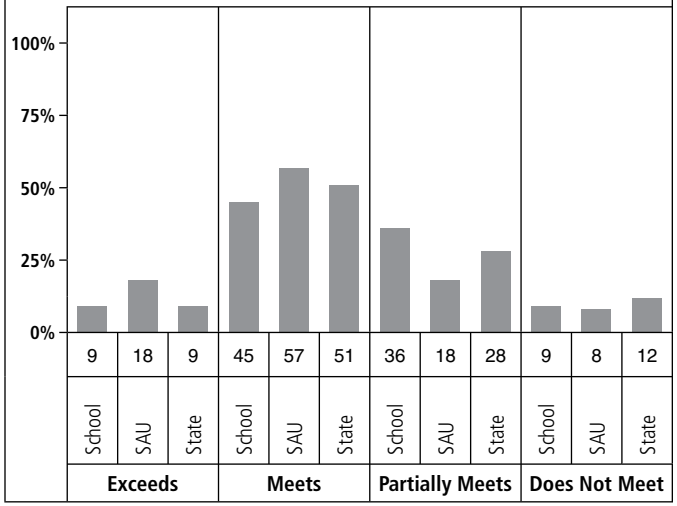
## Summary of School, SAU, and State Scores

| Year | Average Scaled Score | | |
|---|---|---|---|
| | School | SAU | State |
| **ELA – Reading** | | | |
| 2005–2006 | 446 | 451 | 444 |
| 2006–2007 | 447 | 446 | 445 |
| **2007–2008** | **445** | **448** | **445** |
| Cum. Avg.* | 446 | 448 | 445 |
| **Mathematics** | | | |
| 2005–2006 | 451 | 454 | 444 |
| 2006–2007 | 447 | 448 | 445 |
| **2007–2008** | **443** | **450** | **445** |
| Cum. Avg.* | 447 | 450 | 445 |
| **Science & Technology** | | | |
| 2005–2006 | 447 | 454 | 444 |
| 2006–2007 | 445 | 448 | 444 |
| **2007–2008** | **443** | **449** | **444** |
| Cum. Avg.* | 445 | 450 | 444 |

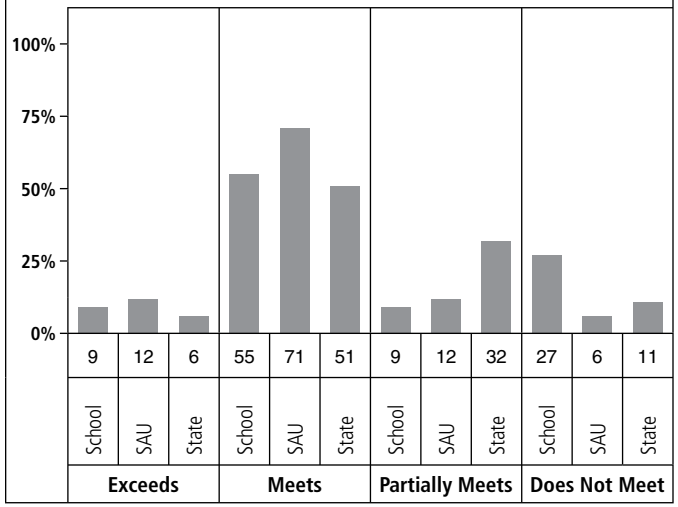
## ELA – READING

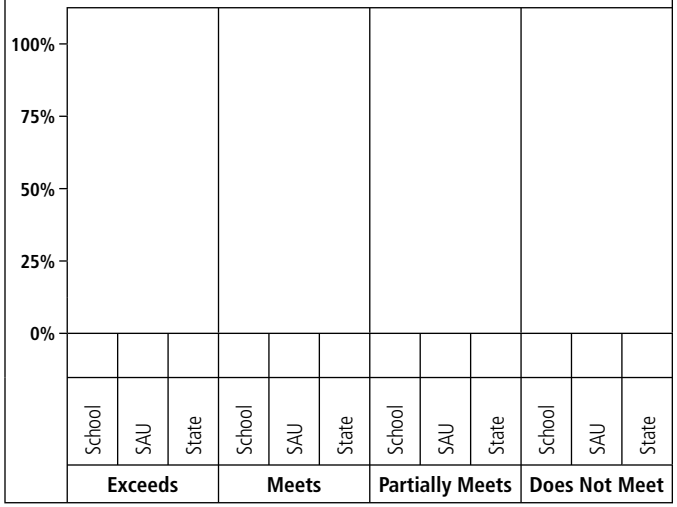



## MATHEMATICS




## SCIENCE AND TECHNOLOGY




*Cumulative averages are weighted, i.e., the scaled scores are averaged proportionally based on the numbers of students in each year.

# SUMMARY OF STUDENT PARTICIPATION

Test Date: March 2008
Grade: 4
SAU: MSAD 37
School: Harrington Elementary School

| CATEGORY OF PARTICIPATION | Enrollment[1] during testing window | | | | | | CONTENT AREA PARTICIPATION[2] | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ELA–Reading | | | | | | Mathematics | | | | | | Science and Technology | | | | | | | | | | | |
| | School | | SAU | | State | | School | | SAU | | State | | School | | SAU | | State | | School | | SAU | | State | | School | | SAU | | State | |
| | n | % | n | % | n | % | n | % | n | % | n | % | n | % | n | % | n | % | n | % | n | % | n | % | n | % | n | % | n | % |
| **Total number of students** | 12 | 100 | 53 | 100 | 14207 | 100 | 11 | 92 | 52 | 98 | 14181 | 100 | 11 | 92 | 52 | 98 | 14123 | 100 | 11 | 92 | 52 | 98 | 14115 | 99 | | | | | | |
| **Ethnicity** African American/Black | 1 | 8 | 1 | 2 | 390 | 3 | 1 | 100 | 1 | 100 | 388 | 99 | 1 | 100 | 1 | 100 | 388 | 99 | 1 | 100 | 1 | 100 | 386 | 99 | | | | | | |
| American Indian or Native Alaskan | 0 | 0 | 0 | 0 | 101 | 1 | 0 | 0 | 0 | 0 | 101 | 100 | 0 | 0 | 0 | 0 | 101 | 100 | 0 | 0 | 0 | 0 | 101 | 100 | | | | | | |
| Asian or Pacific Islander | 0 | 0 | 0 | 0 | 263 | 2 | 0 | 0 | 0 | 0 | 259 | 98 | 0 | 0 | 0 | 0 | 262 | 100 | 0 | 0 | 0 | 0 | 262 | 100 | | | | | | |
| Hispanic | 0 | 0 | 2 | 4 | 170 | 1 | 0 | 0 | 2 | 100 | 168 | 99 | 0 | 0 | 2 | 100 | 166 | 98 | 0 | 0 | 2 | 100 | 166 | 98 | | | | | | |
| Caucasian/White | 11 | 92 | 50 | 94 | 13282 | 93 | 10 | 91 | 49 | 98 | 13264 | 100 | 10 | 91 | 49 | 98 | 13205 | 100 | 10 | 91 | 49 | 98 | 13199 | 99 | | | | | | |
| Not Reported | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 100 | 0 | 0 | 0 | 0 | 1 | 100 | 0 | 0 | 0 | 0 | 1 | 100 | | | | | | |
| **Identified disability** | 4 | 33 | 11 | 21 | 2524 | 18 | 4 | 100 | 11 | 100 | 2514 | 100 | 4 | 100 | 11 | 100 | 2498 | 99 | 4 | 100 | 11 | 100 | 2494 | 99 | | | | | | |
| **Current LEP** | 0 | 0 | 2 | 4 | 385 | 3 | 0 | 0 | 2 | 100 | 377 | 98 | 0 | 0 | 2 | 100 | 383 | 99 | 0 | 0 | 2 | 100 | 380 | 99 | | | | | | |
| **Economically disadvantaged** | 6 | 50 | 31 | 58 | 5587 | 39 | 6 | 100 | 31 | 100 | 5569 | 100 | 6 | 100 | 31 | 100 | 5538 | 99 | 6 | 100 | 31 | 100 | 5534 | 99 | | | | | | |
| **Migrant** | 1 | 8 | 1 | 2 | 5 | 0 | 1 | 100 | 1 | 100 | 5 | 100 | 1 | 100 | 1 | 100 | 5 | 100 | 1 | 100 | 1 | 100 | 5 | 100 | | | | | | |

| MODE OF PARTICIPATION[3] | ELA–Reading | | | | | | Mathematics | | | | | | Science and Technology | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | School | | SAU | | State | | School | | SAU | | State | | School | | SAU | | State | | School | | SAU | | State | |
| | n | % | n | % | n | % | n | % | n | % | n | % | n | % | n | % | n | % | n | % | n | % | n | % |
| **Participation without accommodations** | 7 | 58 | 43 | 81 | 10755 | 76 | 9 | 75 | 45 | 85 | 10730 | 76 | 7 | 58 | 43 | 81 | 10776 | 76 | | | | | | |
| Identified disability (PET/IEP) | 0 | 0 | 2 | 5 | 375 | 3 | 2 | 22 | 4 | 9 | 374 | 3 | 0 | 0 | 2 | 5 | 384 | 4 | | | | | | |
| LEP | 0 | 0 | 2 | 5 | 148 | 1 | 0 | 0 | 2 | 4 | 148 | 1 | 0 | 0 | 2 | 5 | 150 | 1 | | | | | | |
| 504 plan | 0 | 0 | 0 | 0 | 114 | 1 | 0 | 0 | 0 | 0 | 114 | 1 | 0 | 0 | 0 | 0 | 115 | 1 | | | | | | |
| **Participation with accommodations** | 4 | 33 | 8 | 15 | 3298 | 23 | 2 | 17 | 6 | 11 | 3267 | 23 | 4 | 33 | 8 | 15 | 3215 | 23 | | | | | | |
| Identified disability (PET/IEP) | 4 | 100 | 8 | 100 | 2013 | 61 | 2 | 100 | 6 | 100 | 1998 | 61 | 4 | 100 | 8 | 100 | 1986 | 62 | | | | | | |
| LEP | 0 | 0 | 0 | 0 | 225 | 7 | 0 | 0 | 0 | 0 | 233 | 7 | 0 | 0 | 0 | 0 | 229 | 7 | | | | | | |
| 504 plan | 0 | 0 | 0 | 0 | 69 | 2 | 0 | 0 | 0 | 0 | 68 | 2 | 0 | 0 | 0 | 0 | 67 | 2 | | | | | | |
| Other | 0 | 0 | 0 | 0 | 1046 | 32 | 0 | 0 | 0 | 0 | 1023 | 31 | 0 | 0 | 0 | 0 | 987 | 31 | | | | | | |
| **Participation through alternate assessment (PAAP)** | 0 | 0 | 1 | 2 | 126 | 1 | 0 | 0 | 1 | 2 | 126 | 1 | 0 | 0 | 1 | 2 | 124 | 1 | | | | | | |
| Identified disability (PET/IEP) | 0 | 0 | 1 | 100 | 126 | 100 | 0 | 0 | 1 | 100 | 126 | 100 | 0 | 0 | 1 | 100 | 124 | 100 | | | | | | |
| LEP | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | | | | | | |
| 504 plan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| **Approved non-participation in reading – 1st year LEP** | 0 | 0 | 0 | 0 | 2 | 0 | | | | | | | | | | | | | | | | | | |
| **Approved non-participation – special consideration** | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | | | | | | |
| **Non-participation – other** | 1 | 8 | 1 | 2 | 11 | 0 | 1 | 8 | 1 | 2 | 68 | 0 | 1 | 8 | 1 | 2 | 80 | 1 | | | | | | |

**1** Percents are the percentage of students enrolled in each participation category.
**2** Percents are the percentage of students, including those who participated through alternate assessment (PAAP), who participated in the content area.
**3** Percents are the percentage of students in each content area by mode.

# ELA–READING RESULTS

| | |
|---|---|
| Test Date: | March 2008 |
| Grade: | 4 |
| SAU: | MSAD 37 |
| School: | Harrington Elementary School |

| ACHIEVEMENT LEVEL DEFINITIONS<br>The quality of a student's work at each achievement level reflects progress in attaining Maine's Grade Level Expectations in English language arts – reading. | | STUDENTS AT EACH ACHIEVEMENT LEVEL | | | | | |
|---|---|---|---|---|---|---|---|
| | | School | | SAU | | State | |
| | | N | % | N | % | N | % |
| **Exceeds the Standards –** The student's work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing in-depth inferences, analyzing texts for subtle clues, synthesizing information across texts, and using his/her knowledge of text features and literary devices to make deeper connections within or across texts to increase comprehension. (scaled score 461–480) | 2005-2006 | 0 | 0 | 9 | 17 | 601 | 4 |
| | 2006-2007 | 0 | 0 | 1 | 1 | 507 | 4 |
| | **2007-2008** | **0** | **0** | **5** | **10** | **559** | **4** |
| | Cum. Total* | 0 | 0 | 15 | 9 | 1667 | 4 |
| **Meets the Standards –** The student's work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing inferences, summarizing main ideas and providing supporting details, connecting ideas within and across texts, and using his/her knowledge of text features and literary devices to increase comprehension. (scaled score 441–460) | 2005-2006 | 10 | 77 | 33 | 61 | 7910 | 57 |
| | 2006-2007 | 14 | 74 | 47 | 70 | 8749 | 63 |
| | **2007-2008** | **6** | **55** | **32** | **63** | **8308** | **59** |
| | Cum. Total* | 30 | 70 | 112 | 65 | 24967 | 60 |
| **Partially Meets the Standards –** The student's work demonstrates an inconsistent ability to read and interpret literary and informational texts appropriate for the grade level. The student's ability to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, and use his/her knowledge of text features and literary devices varies depending on the texts. (scaled score 431–440) | 2005-2006 | 3 | 23 | 10 | 19 | 3970 | 29 |
| | 2006-2007 | 5 | 26 | 16 | 24 | 3467 | 25 |
| | **2007-2008** | **4** | **36** | **12** | **24** | **3922** | **28** |
| | Cum. Total* | 12 | 28 | 38 | 22 | 11359 | 27 |
| **Does Not Meet the Standards –** The student's work demonstrates a limited ability to read and interpret literary and informational texts appropriate for the grade level. The student's responses are often vague or incorrect leaving the impression that the student found it difficult to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, or use his/her knowledge of text features and literary devices to support comprehension. (scaled score 400–430) | 2005-2006 | 0 | 0 | 2 | 4 | 1421 | 10 |
| | 2006-2007 | 0 | 0 | 3 | 4 | 1165 | 8 |
| | **2007-2008** | **1** | **9** | **2** | **4** | **1264** | **9** |
| | Cum. Total* | 1 | 2 | 7 | 4 | 3850 | 9 |

| Learning Results Content Standard Cluster | Number of Points Possible | | Average Points Attained (Number and Percent) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | School | | SAU | | State | |
| | N | % | N | % | N | % | N | % |
| **Total Reading Cluster** | **48** | **100** | 29.6 | 61.7 | 31.9 | 66.5 | 29.7 | 61.9 |
| **Literary Text** | **24** | **50** | 15.2 | 63.3 | 16.5 | 68.8 | 15.5 | 64.6 |
| **Informational Text** | **24** | **50** | 14.5 | 60.4 | 15.4 | 64.2 | 14.2 | 59.2 |

The Maine *Learning Results* reading cluster includes Content Standards A (Process of Reading), B (Literature and Culture), and D (Informational Texts). The MEA assesses students' reading skills based on questions related to two types of reading passages: literary and informational. Passages include both long and short texts, selected from developmentally appropriate works. Items on the MEA measure Grade Level Expectations, based on Maine's 1997 *Learning Results*, which can be found at http://www.maine.gov/education/lsalt/gles.htm.

*Percentages are calculated by dividing the cumulative total of the number of students in the achievement level by the cumulative total of the number of students tested.

# ELA–READING RESULTS
## (CONTINUED)

Test Date: March 2008
Grade: 4
SAU: MSAD 37
School: Harrington Elementary School

| REPORTING CATEGORIES | School | | | | | | | | | | SAU | | | | | | State | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Tested | E | | M | | P | | D | | Mean Scaled Score | Tested | E | M | P | D | Mean Scaled Score | Tested | E | M | P | D | Mean Scaled Score |
| | N | N | % | N | % | N | % | N | % | | N | % | % | % | % | | N | % | % | % | % | |
| **All Students** | 11 | 0 | 0 | 6 | 55 | 4 | 36 | 1 | 9 | 445 | 51 | 10 | 63 | 24 | 4 | 448 | 14053 | 4 | 59 | 28 | 9 | 445 |
| **Ethnicity** | | | | | | | | | | | | | | | | | | | | | | |
| African American/Black | 1 | | | | | | | | | | 1 | | | | | | 384 | 1 | 36 | 35 | 28 | 438 |
| American Indian or Native Alaskan | 0 | | | | | | | | | | 0 | | | | | | 101 | 1 | 46 | 44 | 10 | 442 |
| Asian or Pacific Islander | 0 | | | | | | | | | | 0 | | | | | | 259 | 6 | 61 | 22 | 11 | 445 |
| Hispanic | 0 | | | | | | | | | | 2 | | | | | | 164 | 0 | 45 | 38 | 16 | 440 |
| Caucasian/White | 10 | 0 | 0 | 5 | 50 | 4 | 40 | 1 | 10 | 444 | 48 | 10 | 60 | 25 | 4 | 447 | 13144 | 4 | 60 | 28 | 8 | 445 |
| Not Reported | 0 | | | | | | | | | | 0 | | | | | | 1 | | | | | |
| **Identified disability** | | | | | | | | | | | | | | | | | | | | | | |
| Yes | 4 | | | | | | | | | | 10 | 0 | 60 | 30 | 10 | 443 | 2388 | 0 | 29 | 44 | 26 | 437 |
| No | 7 | 0 | 0 | 4 | 57 | 2 | 29 | 1 | 14 | 445 | 41 | 12 | 63 | 22 | 2 | 449 | 11665 | 5 | 65 | 25 | 6 | 446 |
| **Current LEP** | | | | | | | | | | | | | | | | | | | | | | |
| Yes | 0 | | | | | | | | | | 2 | | | | | | 373 | 1 | 32 | 35 | 32 | 436 |
| No | 11 | 0 | 0 | 6 | 55 | 4 | 36 | 1 | 9 | 445 | 49 | 10 | 61 | 24 | 4 | 448 | 13680 | 4 | 60 | 28 | 8 | 445 |
| **Economically disadvantaged** | | | | | | | | | | | | | | | | | | | | | | |
| Yes | 6 | 0 | 0 | 3 | 50 | 2 | 33 | 1 | 17 | 445 | 30 | 7 | 63 | 27 | 3 | 448 | 5502 | 1 | 47 | 37 | 14 | 441 |
| No | 5 | 0 | 0 | 3 | 60 | 2 | 40 | 0 | 0 | 446 | 21 | 14 | 62 | 19 | 5 | 448 | 8551 | 6 | 67 | 22 | 5 | 447 |
| **Migrant** | | | | | | | | | | | | | | | | | | | | | | |
| Yes | 1 | | | | | | | | | | 1 | | | | | | 5 | 0 | 40 | 60 | 0 | 445 |
| No | 10 | 0 | 0 | 5 | 50 | 4 | 40 | 1 | 10 | 444 | 50 | 10 | 62 | 24 | 4 | 448 | 14048 | 4 | 59 | 28 | 9 | 445 |
| **Gender** | | | | | | | | | | | | | | | | | | | | | | |
| Female | 4 | | | | | | | | | | 26 | 19 | 54 | 19 | 8 | 449 | 6959 | 5 | 61 | 26 | 8 | 446 |
| Male | 7 | 0 | 0 | 5 | 71 | 2 | 29 | 0 | 0 | 449 | 25 | 0 | 72 | 28 | 0 | 446 | 7093 | 3 | 57 | 30 | 10 | 444 |
| Not Reported | 0 | | | | | | | | | | 0 | | | | | | 1 | | | | | |
| **Title 1A targeted program** | | | | | | | | | | | | | | | | | | | | | | |
| Yes | 3 | | | | | | | | | | 16 | 0 | 44 | 44 | 13 | 440 | 1890 | 0 | 37 | 46 | 17 | 439 |
| No | 8 | 0 | 0 | 6 | 75 | 2 | 25 | 0 | 0 | 449 | 35 | 14 | 71 | 14 | 0 | 451 | 12163 | 5 | 63 | 25 | 8 | 446 |
| **Gifted/talented program** | | | | | | | | | | | | | | | | | | | | | | |
| Yes | 0 | | | | | | | | | | 0 | | | | | | 266 | 21 | 74 | 4 | 0 | 456 |
| No | 11 | 0 | 0 | 6 | 55 | 4 | 36 | 1 | 9 | 445 | 51 | 10 | 63 | 24 | 4 | 448 | 13787 | 4 | 59 | 28 | 9 | 445 |

**E = Exceeds the Standards** **M = Meets the Standards** **P = Partially Meets the Standards** **D = Does Not Meet the Standards**

**NOTE:** Some achievement level results have been left blank because fewer than five (5) students were tested. **N** = Number

# ELA–READING RESULTS
## (QUESTIONNAIRE ITEMS)

Test Date: March 2008
Grade: 4
SAU: MSAD 37
School: Harrington Elementary School

| QUESTIONNAIRE ITEMS | School | | | | | | | | | | SAU | | | | | | State | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Students in Each Category | E | | M | | P | | D | | Mean Scaled Score | Students in Each Category | E | M | P | D | Mean Scaled Score | Students in Each Category | E | M | P | D | Mean Scaled Score |
| | % | N | % | N | % | N | % | N | % | | % | % | % | % | % | | % | % | % | % | % | |
| **How much homework do you do on school nights?** | | | | | | | | | | | | | | | | | | | | | | |
| A. none | 0 | | | | | | | | | | 27 | 0 | 79 | 21 | 0 | 448 | 5 | 1 | 42 | 36 | 21 | 440 |
| B. less than one hour | 9 | 0 | 0 | 1 | 100 | 0 | 0 | 0 | 0 | 448 | 45 | 17 | 65 | 13 | 4 | 449 | 74 | 4 | 62 | 27 | 7 | 445 |
| C. one to two hours | 91 | 0 | 0 | 5 | 50 | 4 | 40 | 1 | 10 | 445 | 27 | 7 | 43 | 43 | 7 | 446 | 18 | 5 | 59 | 29 | 7 | 446 |
| D. more than two hours | 0 | | | | | | | | | | 0 | | | | | | 2 | 3 | 32 | 34 | 31 | 438 |
| **How well do the questions that you have just been given on this MEA test match what you have learned in school about reading?** | | | | | | | | | | | | | | | | | | | | | | |
| A. The questions on the test match what I have learned in reading class. | 55 | 0 | 0 | 3 | 50 | 3 | 50 | 0 | 0 | 445 | 35 | 6 | 61 | 33 | 0 | 449 | 30 | 6 | 63 | 24 | 7 | 446 |
| B. They match some of what I have learned. | 36 | 0 | 0 | 2 | 50 | 1 | 25 | 1 | 25 | 444 | 57 | 14 | 62 | 21 | 3 | 448 | 52 | 4 | 63 | 27 | 6 | 446 |
| C. They match just a little of what I have learned. | 0 | | | | | | | | | | 4 | 0 | 100 | 0 | 0 | 446 | 12 | 2 | 46 | 37 | 15 | 441 |
| D. There is no match. | 9 | 0 | 0 | 1 | 100 | 0 | 0 | 0 | 0 | 448 | 4 | 0 | 50 | 0 | 50 | 431 | 5 | 0 | 33 | 40 | 26 | 437 |
| **Which of the following best describes how you rate yourself as a student in reading?** | | | | | | | | | | | | | | | | | | | | | | |
| A. very good | 36 | 0 | 0 | 3 | 75 | 0 | 0 | 1 | 25 | 448 | 18 | 0 | 89 | 0 | 11 | 448 | 35 | 7 | 66 | 20 | 6 | 448 |
| B. good | 45 | 0 | 0 | 2 | 40 | 3 | 60 | 0 | 0 | 444 | 63 | 16 | 66 | 19 | 0 | 451 | 51 | 3 | 60 | 29 | 7 | 445 |
| C. fair | 18 | 0 | 0 | 1 | 50 | 1 | 50 | 0 | 0 | 442 | 18 | 0 | 33 | 67 | 0 | 441 | 12 | 1 | 44 | 40 | 16 | 440 |
| D. poor | 0 | | | | | | | | | | 2 | 0 | 0 | 0 | 100 | 414 | 2 | 0 | 23 | 47 | 30 | 436 |
| **How hard was the reading part of this test?** | | | | | | | | | | | | | | | | | | | | | | |
| A. harder than my regular schoolwork | 18 | 0 | 0 | 1 | 50 | 1 | 50 | 0 | 0 | 444 | 14 | 14 | 43 | 29 | 14 | 443 | 19 | 2 | 46 | 34 | 17 | 442 |
| B. about the same as my regular schoolwork | 45 | 0 | 0 | 3 | 60 | 2 | 40 | 0 | 0 | 447 | 64 | 9 | 69 | 22 | 0 | 449 | 62 | 5 | 64 | 26 | 5 | 446 |
| C. easier than my regular schoolwork | 36 | 0 | 0 | 2 | 50 | 1 | 25 | 1 | 25 | 443 | 22 | 9 | 55 | 27 | 9 | 447 | 18 | 3 | 58 | 29 | 10 | 444 |
| **How hard were the reading passages on this test?** | | | | | | | | | | | | | | | | | | | | | | |
| A. Most of the passages were more difficult than what I usually read. | 27 | 0 | 0 | 1 | 33 | 2 | 67 | 0 | 0 | 443 | 16 | 0 | 38 | 50 | 13 | 440 | 14 | 0 | 32 | 46 | 22 | 438 |
| B. Most of the passages were about the same as what I usually read. | 27 | 0 | 0 | 2 | 67 | 1 | 33 | 0 | 0 | 449 | 58 | 10 | 69 | 21 | 0 | 449 | 52 | 3 | 62 | 28 | 7 | 445 |
| C. Most of the passages were easier than what I usually read. | 45 | 0 | 0 | 3 | 60 | 1 | 20 | 1 | 20 | 444 | 26 | 15 | 62 | 15 | 8 | 449 | 33 | 7 | 68 | 20 | 5 | 448 |
| **How much time do you spend reading at home each day?** | | | | | | | | | | | | | | | | | | | | | | |
| A. more than one hour | 27 | 0 | 0 | 0 | 0 | 3 | 100 | 0 | 0 | 437 | 24 | 17 | 42 | 42 | 0 | 448 | 18 | 7 | 64 | 22 | 7 | 447 |
| B. 20 minutes to an hour | 36 | 0 | 0 | 3 | 75 | 1 | 25 | 0 | 0 | 450 | 43 | 9 | 68 | 23 | 0 | 449 | 55 | 4 | 64 | 26 | 6 | 446 |
| C. less than 20 minutes | 18 | 0 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 454 | 18 | 11 | 78 | 11 | 0 | 450 | 14 | 2 | 53 | 33 | 12 | 443 |
| D. I rarely read at home. | 18 | 0 | 0 | 1 | 50 | 0 | 0 | 1 | 50 | 439 | 16 | 0 | 63 | 13 | 25 | 441 | 13 | 1 | 44 | 39 | 16 | 441 |
| **How many pages do you read in school and to complete homework assignments?** | | | | | | | | | | | | | | | | | | | | | | |
| A. five or fewer pages | 45 | 0 | 0 | 2 | 40 | 2 | 40 | 1 | 20 | 441 | 18 | 0 | 44 | 33 | 22 | 438 | 23 | 3 | 50 | 34 | 13 | 442 |
| B. six to ten pages | 36 | 0 | 0 | 2 | 50 | 2 | 50 | 0 | 0 | 447 | 22 | 0 | 55 | 45 | 0 | 446 | 25 | 3 | 60 | 29 | 8 | 444 |
| C. eleven or more pages | 18 | 0 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 453 | 60 | 17 | 70 | 13 | 0 | 451 | 52 | 5 | 64 | 24 | 6 | 446 |
| **Optional school/SAU question** | | | | | | | | | | | | | | | | | | | | | | |
| A. | 0 | | | | | | | | | | 0 | | | | | | | | | | | |
| B. | 0 | | | | | | | | | | 50 | 0 | 100 | 0 | 0 | 448 | | | | | | |
| C. | 0 | | | | | | | | | | 50 | 100 | 0 | 0 | 0 | 466 | | | | | | |
| D. | 0 | | | | | | | | | | 0 | | | | | | | | | | | |

**E = Exceeds the Standards** **M = Meets the Standards** **P = Partially Meets the Standards** **D = Does Not Meet the Standards**
**N** = Number

# MATHEMATICS RESULTS

| | |
|---|---|
| Test Date: | March 2008 |
| Grade: | 4 |
| SAU: | MSAD 37 |
| School: | Harrington Elementary School |

## ACHIEVEMENT LEVEL DEFINITIONS

The quality of a student's work at each achievement level reflects progress in attaining Maine's Grade Level Expectations in mathematics.

| | | STUDENTS AT EACH ACHIEVEMENT LEVEL | | | | | |
|---|---|---|---|---|---|---|---|
| | | School | | SAU | | State | |
| | | N | % | N | % | N | % |
| **Exceeds the Standards –** The student's work demonstrates in-depth understanding of essential concepts in mathematics, including the ability to make multiple connections among central ideas. The student's responses demonstrate the ability to synthesize information; analyze and solve difficult problems, including developing and implementing strategies, efficiently and accurately performing procedures, and recording and justifying solutions; and explain complex concepts. (scaled score 461–480) | 2005-2006 | 1 | 8 | 16 | 30 | 1294 | 9 |
| | 2006-2007 | 1 | 5 | 4 | 6 | 1054 | 8 |
| | **2007-2008** | **1** | **9** | **9** | **18** | **1321** | **9** |
| | Cum. Total* | 3 | 7 | 29 | 17 | 3669 | 9 |
| **Meets the Standards –** The student's work demonstrates a general understanding of essential concepts in mathematics, including the ability to make connections among central ideas. The student's responses demonstrate the ability to analyze and solve problems including developing and implementing strategies, to perform procedures, and to record and explain solutions and concepts. The student's work may contain minor errors. (scaled score 441–460) | 2005-2006 | 8 | 67 | 24 | 44 | 7000 | 50 |
| | 2006-2007 | 11 | 58 | 46 | 69 | 7394 | 53 |
| | **2007-2008** | **5** | **45** | **29** | **57** | **7079** | **51** |
| | Cum. Total* | 24 | 57 | 99 | 58 | 21473 | 51 |
| **Partially Meets the Standards –** The student's work demonstrates incomplete understanding of essential concepts in mathematics and inconsistent connections among central ideas. The student's responses demonstrate some ability to analyze and solve problems, and explain concepts. Problem solving strategies may be flawed, procedures performed inaccurately, methods not recorded and/or problems not completed. (scaled score 429–440) | 2005-2006 | 3 | 25 | 11 | 20 | 3784 | 27 |
| | 2006-2007 | 6 | 32 | 13 | 19 | 3729 | 27 |
| | **2007-2008** | **4** | **36** | **9** | **18** | **3955** | **28** |
| | Cum. Total* | 13 | 31 | 33 | 19 | 11468 | 27 |
| **Does Not Meet the Standards –** The student's work demonstrates limited understanding of essential concepts in mathematics and infrequent or inaccurate connections among central ideas. The student's responses demonstrate minimal ability to solve problems and explain concepts. Problem solving strategies and procedures are often flawed or inappropriate and there may be many omissions. (scaled score 400–428) | 2005-2006 | 0 | 0 | 3 | 6 | 1894 | 14 |
| | 2006-2007 | 1 | 5 | 4 | 6 | 1735 | 12 |
| | **2007-2008** | **1** | **9** | **4** | **8** | **1642** | **12** |
| | Cum. Total* | 2 | 5 | 11 | 6 | 5271 | 13 |

| Learning Results Content Standard Clusters | Number of Points Possible | | Average Points Attained (Number and Percent) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | School | | SAU | | State | |
| | N | % | N | % | N | % | N | % |
| **Cluster 1: Numbers and Operations** | **15** | **31** | 8.4 | 56.0 | 10.5 | 70.0 | 9.5 | 63.3 |
| **Cluster 2: Shape and Size** | **14** | **29** | 9.4 | 67.1 | 10.0 | 71.4 | 9.1 | 65.0 |
| **Cluster 3: Mathematical Decision Making** | **5** | **10** | 3.0 | 60.0 | 3.7 | 74.0 | 3.4 | 68.0 |
| **Cluster 4: Patterns** | **14** | **29** | 9.6 | 68.6 | 10.1 | 72.1 | 9.7 | 69.3 |

**Cluster 1: Numbers and Operations**
- A. Numbers and Number Sense
- B. Computation
- I. Discrete Mathematics (grades 3 and 4 only)

**Cluster 2: Shape and Size**
- E. Geometry
- F. Measurement

**Cluster 3: Mathematical Decision Making**
- C. Data Analysis and Statistics
- D. Probability

**Cluster 4: Patterns**
- G. Patterns, Relations, and Functions
- H. Algebra Concepts
- K. Mathematical Communication

Each content standard in the clusters above is defined in Maine's 1997 *Learning Results*, which are the basis for Grade Level Expectations. Each item on the MEA measures a grade level expectation, which can be found at http://www.maine.gov/education/lsalt/gles.htm.

*Percentages are calculated by dividing the cumulative total of the number of students in the achievement level by the cumulative total of the number of students tested.

# MATHEMATICS RESULTS
## (CONTINUED)

Test Date: March 2008
Grade: 4
SAU: MSAD 37
School: Harrington Elementary School

| REPORTING CATEGORIES | School | | | | | | | | | | SAU | | | | | | State | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Tested | E | | M | | P | | D | | Mean Scaled Score | Tested | E | M | P | D | Mean Scaled Score | Tested | E | M | P | D | Mean Scaled Score |
| | N | N | % | N | % | N | % | N | % | | N | % | % | % | % | | N | % | % | % | % | |
| **All Students** | 11 | 1 | 9 | 5 | 45 | 4 | 36 | 1 | 9 | 443 | 51 | 18 | 57 | 18 | 8 | 450 | 13997 | 9 | 51 | 28 | 12 | 445 |
| **Ethnicity** | | | | | | | | | | | | | | | | | | | | | | |
| African American/Black | 1 | | | | | | | | | | 1 | | | | | | 386 | 4 | 26 | 34 | 36 | 434 |
| American Indian or Native Alaskan | 0 | | | | | | | | | | 0 | | | | | | 101 | 3 | 46 | 41 | 11 | 442 |
| Asian or Pacific Islander | 0 | | | | | | | | | | 0 | | | | | | 262 | 14 | 51 | 23 | 12 | 447 |
| Hispanic | 0 | | | | | | | | | | 2 | | | | | | 162 | 4 | 41 | 34 | 21 | 440 |
| Caucasian/White | 10 | 0 | 0 | 5 | 50 | 4 | 40 | 1 | 10 | 441 | 48 | 17 | 58 | 17 | 8 | 450 | 13085 | 10 | 51 | 28 | 11 | 446 |
| Not Reported | 0 | | | | | | | | | | 0 | | | | | | 1 | | | | | |
| **Identified disability** | | | | | | | | | | | | | | | | | | | | | | |
| Yes | 4 | | | | | | | | | | 10 | 10 | 40 | 40 | 10 | 444 | 2372 | 3 | 31 | 36 | 30 | 436 |
| No | 7 | 0 | 0 | 4 | 57 | 2 | 29 | 1 | 14 | 443 | 41 | 20 | 61 | 12 | 7 | 452 | 11625 | 11 | 54 | 27 | 8 | 447 |
| **Current LEP** | | | | | | | | | | | | | | | | | | | | | | |
| Yes | 0 | | | | | | | | | | 2 | | | | | | 381 | 4 | 33 | 28 | 35 | 435 |
| No | 11 | 1 | 9 | 5 | 45 | 4 | 36 | 1 | 9 | 443 | 49 | 18 | 57 | 16 | 8 | 450 | 13616 | 10 | 51 | 28 | 11 | 445 |
| **Economically disadvantaged** | | | | | | | | | | | | | | | | | | | | | | |
| Yes | 6 | 1 | 17 | 4 | 67 | 0 | 0 | 1 | 17 | 447 | 30 | 17 | 63 | 7 | 13 | 450 | 5472 | 5 | 41 | 35 | 19 | 440 |
| No | 5 | 0 | 0 | 1 | 20 | 4 | 80 | 0 | 0 | 438 | 21 | 19 | 48 | 33 | 0 | 450 | 8525 | 13 | 56 | 24 | 7 | 448 |
| **Migrant** | | | | | | | | | | | | | | | | | | | | | | |
| Yes | 1 | | | | | | | | | | 1 | | | | | | 5 | 0 | 80 | 20 | 0 | 448 |
| No | 10 | 1 | 10 | 4 | 40 | 4 | 40 | 1 | 10 | 442 | 50 | 18 | 56 | 18 | 8 | 450 | 13992 | 9 | 51 | 28 | 12 | 445 |
| **Gender** | | | | | | | | | | | | | | | | | | | | | | |
| Female | 4 | | | | | | | | | | 26 | 19 | 58 | 15 | 8 | 451 | 6933 | 9 | 50 | 29 | 12 | 445 |
| Male | 7 | 1 | 14 | 4 | 57 | 2 | 29 | 0 | 0 | 448 | 25 | 16 | 56 | 20 | 8 | 449 | 7063 | 10 | 51 | 27 | 11 | 446 |
| Not Reported | 0 | | | | | | | | | | 0 | | | | | | 1 | | | | | |
| **Title 1A targeted program** | | | | | | | | | | | | | | | | | | | | | | |
| Yes | 3 | | | | | | | | | | 16 | 0 | 38 | 38 | 25 | 437 | 1890 | 2 | 34 | 41 | 23 | 438 |
| No | 8 | 1 | 13 | 4 | 50 | 3 | 38 | 0 | 0 | 446 | 35 | 26 | 66 | 9 | 0 | 456 | 12107 | 11 | 53 | 26 | 10 | 446 |
| **Gifted/talented program** | | | | | | | | | | | | | | | | | | | | | | |
| Yes | 0 | | | | | | | | | | 0 | | | | | | 266 | 45 | 49 | 5 | 0 | 461 |
| No | 11 | 1 | 9 | 5 | 45 | 4 | 36 | 1 | 9 | 443 | 51 | 18 | 57 | 18 | 8 | 450 | 13731 | 9 | 51 | 29 | 12 | 445 |

**E = Exceeds the Standards** **M = Meets the Standards** **P = Partially Meets the Standards** **D = Does Not Meet the Standards**

**NOTE:** Some achievement level results have been left blank because fewer than five (5) students were tested. **N** = Number

# MATHEMATICS RESULTS
## (QUESTIONNAIRE ITEMS)

Test Date: March 2008
Grade: 4
SAU: MSAD 37
School: Harrington Elementary School

| QUESTIONNAIRE ITEMS | School | | | | | | | | | | SAU | | | | | | State | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Students in Each Category | E | | M | | P | | D | | Mean Scaled Score | Students in Each Category | E | M | P | D | Mean Scaled Score | Students in Each Category | E | M | P | D | Mean Scaled Score |
| | % | N | % | N | % | N | % | N | % | | % | % | % | % | % | | % | % | % | % | % | |
| **How much homework do you do on school nights?** | | | | | | | | | | | | | | | | | | | | | | |
| A. none | 0 | | | | | | | | | | 27 | 21 | 57 | 7 | 14 | 451 | 5 | 6 | 34 | 33 | 27 | 438 |
| B. less than one hour | 9 | 0 | 0 | 0 | 0 | 1 | 100 | 0 | 0 | 434 | 45 | 17 | 61 | 17 | 4 | 452 | 74 | 10 | 52 | 28 | 10 | 446 |
| C. one to two hours | 91 | 1 | 10 | 5 | 50 | 3 | 30 | 1 | 10 | 444 | 27 | 14 | 50 | 29 | 7 | 447 | 18 | 10 | 52 | 28 | 10 | 446 |
| D. more than two hours | 0 | | | | | | | | | | 0 | | | | | | 2 | 5 | 33 | 28 | 34 | 436 |
| **How well do the questions that you have just been given on this MEA test match what you have learned in school about mathematics?** | | | | | | | | | | | | | | | | | | | | | | |
| A. The questions on the test match what I have learned in mathematics class. | 18 | 0 | 0 | 1 | 50 | 1 | 50 | 0 | 0 | 440 | 24 | 8 | 67 | 25 | 0 | 448 | 38 | 13 | 56 | 23 | 8 | 448 |
| B. They match some of what I have learned. | 45 | 1 | 20 | 2 | 40 | 2 | 40 | 0 | 0 | 447 | 65 | 24 | 55 | 15 | 6 | 453 | 48 | 8 | 52 | 29 | 10 | 445 |
| C. They match just a little of what I have learned. | 36 | 0 | 0 | 2 | 50 | 1 | 25 | 1 | 25 | 440 | 10 | 0 | 60 | 20 | 20 | 443 | 10 | 4 | 35 | 39 | 22 | 439 |
| D. There is no match. | 0 | | | | | | | | | | 2 | 0 | 0 | 0 | 100 | 408 | 4 | 2 | 25 | 33 | 40 | 433 |
| **Which of the following best describes how you rate yourself as a student in mathematics?** | | | | | | | | | | | | | | | | | | | | | | |
| A. very good | 73 | 1 | 13 | 4 | 50 | 2 | 25 | 1 | 13 | 445 | 39 | 15 | 65 | 15 | 5 | 450 | 35 | 16 | 55 | 20 | 8 | 449 |
| B. good | 18 | 0 | 0 | 1 | 50 | 1 | 50 | 0 | 0 | 440 | 45 | 26 | 48 | 17 | 9 | 451 | 48 | 7 | 52 | 31 | 11 | 445 |
| C. fair | 9 | 0 | 0 | 0 | 0 | 1 | 100 | 0 | 0 | 434 | 16 | 0 | 63 | 25 | 13 | 447 | 14 | 3 | 41 | 38 | 18 | 440 |
| D. poor | 0 | | | | | | | | | | 0 | | | | | | 3 | 1 | 29 | 36 | 34 | 435 |
| **How hard was the mathematics part of this test?** | | | | | | | | | | | | | | | | | | | | | | |
| A. harder than my regular schoolwork | 27 | 1 | 33 | 1 | 33 | 1 | 33 | 0 | 0 | 447 | 16 | 25 | 38 | 38 | 0 | 449 | 15 | 4 | 38 | 33 | 25 | 439 |
| B. about the same as my regular schoolwork | 55 | 0 | 0 | 4 | 67 | 2 | 33 | 0 | 0 | 445 | 66 | 21 | 64 | 15 | 0 | 453 | 64 | 10 | 54 | 28 | 9 | 446 |
| C. easier than my regular schoolwork | 18 | 0 | 0 | 0 | 0 | 1 | 50 | 1 | 50 | 430 | 18 | 0 | 56 | 11 | 33 | 443 | 21 | 13 | 52 | 24 | 11 | 447 |
| **How often do you use hands-on materials in mathematics class?** | | | | | | | | | | | | | | | | | | | | | | |
| A. almost every day | 18 | 0 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 448 | 20 | 10 | 60 | 20 | 10 | 447 | 23 | 8 | 47 | 29 | 16 | 443 |
| B. two or three days a week | 45 | 0 | 0 | 3 | 60 | 2 | 40 | 0 | 0 | 444 | 28 | 14 | 64 | 21 | 0 | 451 | 36 | 11 | 54 | 27 | 9 | 447 |
| C. two or three times each month | 9 | 0 | 0 | 0 | 0 | 1 | 100 | 0 | 0 | 434 | 10 | 0 | 80 | 20 | 0 | 450 | 25 | 10 | 53 | 27 | 10 | 446 |
| D. never or almost never | 27 | 1 | 33 | 0 | 0 | 1 | 33 | 1 | 33 | 441 | 42 | 29 | 48 | 14 | 10 | 453 | 16 | 9 | 46 | 32 | 13 | 444 |
| **How often do you use calculators in mathematics class?** | | | | | | | | | | | | | | | | | | | | | | |
| A. almost every day | 0 | | | | | | | | | | 2 | 0 | 0 | 100 | 0 | 438 | 5 | 3 | 30 | 33 | 33 | 436 |
| B. two or three days a week | 9 | 0 | 0 | 0 | 0 | 1 | 100 | 0 | 0 | 436 | 10 | 0 | 60 | 40 | 0 | 448 | 19 | 8 | 50 | 30 | 12 | 445 |
| C. two or three times each month | 9 | 0 | 0 | 0 | 0 | 1 | 100 | 0 | 0 | 434 | 14 | 14 | 71 | 14 | 0 | 452 | 38 | 11 | 55 | 26 | 8 | 447 |
| D. never or almost never | 82 | 1 | 11 | 5 | 56 | 2 | 22 | 1 | 11 | 445 | 74 | 22 | 57 | 14 | 8 | 451 | 38 | 9 | 50 | 29 | 12 | 445 |
| **On average, how many minutes a day do you spend working on mathematics in class?** | | | | | | | | | | | | | | | | | | | | | | |
| A. less than 30 minutes | 0 | | | | | | | | | | 6 | 0 | 67 | 0 | 33 | 443 | 8 | 3 | 33 | 38 | 25 | 438 |
| B. 30–45 minutes | 73 | 0 | 0 | 4 | 50 | 3 | 38 | 1 | 13 | 442 | 29 | 13 | 47 | 27 | 13 | 445 | 27 | 6 | 48 | 33 | 13 | 443 |
| C. 45–60 minutes | 27 | 1 | 33 | 1 | 33 | 1 | 33 | 0 | 0 | 447 | 39 | 25 | 55 | 15 | 5 | 453 | 38 | 11 | 54 | 26 | 9 | 447 |
| D. more than 60 minutes | 0 | | | | | | | | | | 25 | 15 | 69 | 15 | 0 | 454 | 26 | 13 | 55 | 23 | 9 | 448 |
| **Optional school/SAU question** | | | | | | | | | | | | | | | | | | | | | | |
| A. | 0 | | | | | | | | | | 0 | | | | | | | | | | | |
| B. | 0 | | | | | | | | | | 50 | 0 | 100 | 0 | 0 | 460 | | | | | | |
| C. | 0 | | | | | | | | | | 50 | 100 | 0 | 0 | 0 | 466 | | | | | | |
| D. | 0 | | | | | | | | | | 0 | | | | | | | | | | | |

**E = Exceeds the Standards** **M = Meets the Standards** **P = Partially Meets the Standards** **D = Does Not Meet the Standards**
**N** = Number

# SCIENCE AND TECHNOLOGY RESULTS

| | |
|---|---|
| Test Date: | March 2008 |
| Grade: | 4 |
| SAU: | MSAD 37 |
| School: | Harrington Elementary School |

| ACHIEVEMENT LEVEL DEFINITIONS<br>The quality of a student's work at each achievement level reflects progress in attaining Maine's Grade Span Expectations in science and technology. | | STUDENTS AT EACH ACHIEVEMENT LEVEL | | | | | |
|---|---|---|---|---|---|---|---|
| | | School | | SAU | | State | |
| | | N | % | N | % | N | % |
| **Exceeds the Standards –** The student's work demonstrates in-depth understanding of essential concepts in science, including the ability to make multiple connections among central ideas. The student's responses demonstrate the ability to synthesize information, analyze and solve difficult problems using the processes of scientific inquiry, and explain complex concepts using evidence and proper terminology to support and communicate logical conclusions. (scaled score 461–480) | 2005-2006 | 0 | 0 | 14 | 26 | 751 | 5 |
| | 2006-2007 | 2 | 11 | 9 | 13 | 963 | 7 |
| | **2007-2008** | **1** | **9** | **6** | **12** | **882** | **6** |
| | Cum. Total* | 3 | 7 | 29 | 17 | 2596 | 6 |
| **Meets the Standards –** The student's work demonstrates a general understanding of essential concepts in science, including the ability to make connections among central ideas. The student's responses demonstrate the ability to analyze and solve routine problems using the processes of scientific inquiry and explain central concepts with sufficient clarity and accuracy to demonstrate general understanding. (scaled score 441–460) | 2005-2006 | 11 | 85 | 30 | 56 | 7251 | 52 |
| | 2006-2007 | 10 | 53 | 40 | 60 | 6824 | 49 |
| | **2007-2008** | **6** | **55** | **36** | **71** | **7130** | **51** |
| | Cum. Total* | 27 | 63 | 106 | 62 | 21205 | 51 |
| **Partially Meets the Standards –** The student's work demonstrates incomplete understanding of essential concepts in science and inconsistent connections among central ideas. The student's responses demonstrate some ability to analyze and solve problems using scientific inquiry but the quality of responses is inconsistent. Explanation of concepts may be incomplete or unclear. (scaled score 429–440) | 2005-2006 | 2 | 15 | 8 | 15 | 4514 | 32 |
| | 2006-2007 | 5 | 26 | 14 | 21 | 4382 | 32 |
| | **2007-2008** | **1** | **9** | **6** | **12** | **4433** | **32** |
| | Cum. Total* | 8 | 19 | 28 | 16 | 13329 | 32 |
| **Does Not Meet the Standards –** The student's work demonstrates limited understanding of essential concepts in science and infrequent or inaccurate connections among central ideas. The student's responses demonstrate minimal ability to solve problems and use the skills of scientific inquiry. There are many inaccuracies and explanations are illogical, incomplete, or missing. (scaled score 400–428) | 2005-2006 | 0 | 0 | 2 | 4 | 1458 | 10 |
| | 2006-2007 | 2 | 11 | 4 | 6 | 1735 | 12 |
| | **2007-2008** | **3** | **27** | **3** | **6** | **1546** | **11** |
| | Cum. Total* | 5 | 12 | 9 | 5 | 4739 | 11 |

| Learning Results Content Standard Clusters | Number of Points Possible | | Average Points Attained (Number and Percent) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | School | | SAU | | State | |
| | N | % | N | % | N | % | N | % |
| **Cluster 1: Life Sciences** | **12** | **25** | 7.4 | 61.7 | 9.1 | 75.8 | 8.0 | 66.7 |
| **Cluster 2: Physical Sciences** | **12** | **25** | 6.8 | 56.7 | 7.5 | 62.5 | 7.2 | 60.0 |
| **Cluster 3: Earth and Space Sciences** | **12** | **25** | 7.9 | 65.8 | 8.5 | 70.8 | 7.4 | 61.7 |
| **Cluster 4: Nature and Implications of Science** | **12** | **25** | 7.1 | 59.2 | 8.4 | 70.0 | 7.6 | 63.3 |

**Cluster 1: Life Sciences**
- A. Classifying Life Forms
- B. Ecology
- C. Cells

**Cluster 2: Physical Sciences**
- E. Structure of Matter
- H. Energy
- I. Motion

**Cluster 3: Earth and Space Sciences**
- D. Continuity and Change
- F. The Earth
- G. The Universe

**Cluster 4: Nature and Implications of Science**
- J. Inquiry and Problem Solving
- K. Scientific Reasoning
- L. Communication
- M. Implications of Science & Technology

Each content standard in the clusters shown is defined in Maine's 1997 *Learning Results*, which are the basis for science and technology Grade Span Expectations. Each item on the MEA measures a grade span expectation, which can be found at http://www.maine.gov/education/lsalt/gles.htm.

*Percentages are calculated by dividing the cumulative total of the number of students in the achievement level by the cumulative total of the number of students tested.

# SCIENCE AND TECHNOLOGY RESULTS
## (CONTINUED)

Test Date: March 2008
Grade: 4
SAU: MSAD 37
School: Harrington Elementary School

| REPORTING CATEGORIES | School | | | | | | | | | | SAU | | | | | | State | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Tested | E | | M | | P | | D | | Mean Scaled Score | Tested | E | M | P | D | Mean Scaled Score | Tested | E | M | P | D | Mean Scaled Score |
| | N | N | % | N | % | N | % | N | % | | N | % | % | % | % | | N | % | % | % | % | |
| **All Students** | 11 | 1 | 9 | 6 | 55 | 1 | 9 | 3 | 27 | 443 | 51 | 12 | 71 | 12 | 6 | 449 | 13991 | 6 | 51 | 32 | 11 | 444 |
| **Ethnicity** | | | | | | | | | | | | | | | | | | | | | | |
| African American/Black | 1 | | | | | | | | | | 1 | | | | | | 385 | 2 | 27 | 35 | 36 | 434 |
| American Indian or Native Alaskan | 0 | | | | | | | | | | 0 | | | | | | 101 | 3 | 44 | 44 | 10 | 441 |
| Asian or Pacific Islander | 0 | | | | | | | | | | 0 | | | | | | 262 | 5 | 52 | 28 | 14 | 443 |
| Hispanic | 0 | | | | | | | | | | 2 | | | | | | 162 | 2 | 38 | 39 | 21 | 439 |
| Caucasian/White | 10 | 0 | 0 | 6 | 60 | 1 | 10 | 3 | 30 | 440 | 48 | 10 | 71 | 13 | 6 | 449 | 13080 | 7 | 52 | 31 | 10 | 444 |
| Not Reported | 0 | | | | | | | | | | 0 | | | | | | 1 | | | | | |
| **Identified disability** | | | | | | | | | | | | | | | | | | | | | | |
| Yes | 4 | | | | | | | | | | 10 | 10 | 70 | 10 | 10 | 447 | 2370 | 2 | 32 | 41 | 25 | 437 |
| No | 7 | 0 | 0 | 4 | 57 | 1 | 14 | 2 | 29 | 440 | 41 | 12 | 71 | 12 | 5 | 450 | 11621 | 7 | 55 | 30 | 8 | 445 |
| **Current LEP** | | | | | | | | | | | | | | | | | | | | | | |
| Yes | 0 | | | | | | | | | | 2 | | | | | | 379 | 1 | 25 | 35 | 39 | 433 |
| No | 11 | 1 | 9 | 6 | 55 | 1 | 9 | 3 | 27 | 443 | 49 | 12 | 69 | 12 | 6 | 449 | 13612 | 6 | 52 | 32 | 10 | 444 |
| **Economically disadvantaged** | | | | | | | | | | | | | | | | | | | | | | |
| Yes | 6 | 1 | 17 | 4 | 67 | 0 | 0 | 1 | 17 | 447 | 30 | 7 | 80 | 10 | 3 | 449 | 5470 | 3 | 41 | 39 | 18 | 440 |
| No | 5 | 0 | 0 | 2 | 40 | 1 | 20 | 2 | 40 | 437 | 21 | 19 | 57 | 14 | 10 | 450 | 8521 | 9 | 57 | 27 | 7 | 446 |
| **Migrant** | | | | | | | | | | | | | | | | | | | | | | |
| Yes | 1 | | | | | | | | | | 1 | | | | | | 5 | 20 | 20 | 40 | 20 | 443 |
| No | 10 | 1 | 10 | 5 | 50 | 1 | 10 | 3 | 30 | 442 | 50 | 12 | 70 | 12 | 6 | 449 | 13986 | 6 | 51 | 32 | 11 | 444 |
| **Gender** | | | | | | | | | | | | | | | | | | | | | | |
| Female | 4 | | | | | | | | | | 26 | 12 | 65 | 15 | 8 | 448 | 6929 | 6 | 49 | 33 | 12 | 443 |
| Male | 7 | 1 | 14 | 5 | 71 | 0 | 0 | 1 | 14 | 448 | 25 | 12 | 76 | 8 | 4 | 450 | 7061 | 7 | 53 | 30 | 10 | 444 |
| Not Reported | 0 | | | | | | | | | | 0 | | | | | | 1 | | | | | |
| **Title 1A targeted program** | | | | | | | | | | | | | | | | | | | | | | |
| Yes | 3 | | | | | | | | | | 16 | 0 | 56 | 31 | 13 | 442 | 1888 | 1 | 32 | 44 | 23 | 437 |
| No | 8 | 1 | 13 | 5 | 63 | 1 | 13 | 1 | 13 | 447 | 35 | 17 | 77 | 3 | 3 | 453 | 12103 | 7 | 54 | 30 | 9 | 445 |
| **Gifted/talented program** | | | | | | | | | | | | | | | | | | | | | | |
| Yes | 0 | | | | | | | | | | 0 | | | | | | 266 | 30 | 65 | 5 | 1 | 457 |
| No | 11 | 1 | 9 | 6 | 55 | 1 | 9 | 3 | 27 | 443 | 51 | 12 | 71 | 12 | 6 | 449 | 13725 | 6 | 51 | 32 | 11 | 444 |

**E = Exceeds the Standards** **M = Meets the Standards** **P = Partially Meets the Standards** **D = Does Not Meet the Standards**

**NOTE:** Some achievement level results have been left blank because fewer than five (5) students were tested. **N** = Number

# SCIENCE AND TECHNOLOGY RESULTS
## (QUESTIONNAIRE ITEMS)

Test Date: March 2008
Grade: 4
SAU: MSAD 37
School: Harrington Elementary School

| QUESTIONNAIRE ITEMS | School | | | | | | | | | | SAU | | | | | | State | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Students in Each Category | E | | M | | P | | D | | Mean Scaled Score | Students in Each Category | E | M | P | D | Mean Scaled Score | Students in Each Category | E | M | P | D | Mean Scaled Score |
| | % | N | % | N | % | N | % | N | % | | % | % | % | % | % | | % | % | % | % | % | |
| **How much homework do you do on school nights?** | | | | | | | | | | | | | | | | | | | | | | |
| A. none | 0 | | | | | | | | | | 27 | 14 | 64 | 21 | 0 | 450 | 5 | 4 | 37 | 36 | 22 | 439 |
| B. less than one hour | 9 | 0 | 0 | 1 | 100 | 0 | 0 | 0 | 0 | 452 | 45 | 13 | 78 | 9 | 0 | 451 | 74 | 6 | 53 | 31 | 10 | 444 |
| C. one to two hours | 91 | 1 | 10 | 5 | 50 | 1 | 10 | 3 | 30 | 442 | 27 | 7 | 64 | 7 | 21 | 445 | 18 | 7 | 52 | 32 | 8 | 445 |
| D. more than two hours | 0 | | | | | | | | | | 0 | | | | | | 2 | 4 | 31 | 33 | 32 | 437 |
| **How well do the questions that you have just been given on this MEA test match what you have learned in school about science?** | | | | | | | | | | | | | | | | | | | | | | |
| A. The questions on the test match what I have learned in science class. | 45 | 1 | 20 | 2 | 40 | 1 | 20 | 1 | 20 | 446 | 33 | 12 | 65 | 18 | 6 | 449 | 24 | 9 | 53 | 28 | 10 | 446 |
| B. They match some of what I have learned. | 36 | 0 | 0 | 3 | 75 | 0 | 0 | 1 | 25 | 442 | 49 | 12 | 84 | 0 | 4 | 451 | 49 | 6 | 54 | 31 | 9 | 445 |
| C. They match just a little of what I have learned. | 18 | 0 | 0 | 1 | 50 | 0 | 0 | 1 | 50 | 437 | 18 | 11 | 44 | 33 | 11 | 445 | 21 | 4 | 47 | 36 | 13 | 442 |
| D. There is no match. | 0 | | | | | | | | | | 0 | | | | | | 6 | 2 | 35 | 37 | 25 | 438 |
| **Which of the following best describes how you rate yourself as a student in science?** | | | | | | | | | | | | | | | | | | | | | | |
| A. very good | 27 | 1 | 33 | 1 | 33 | 0 | 0 | 1 | 33 | 445 | 20 | 10 | 60 | 20 | 10 | 445 | 25 | 9 | 53 | 27 | 10 | 446 |
| B. good | 45 | 0 | 0 | 3 | 60 | 1 | 20 | 1 | 20 | 442 | 59 | 13 | 73 | 10 | 3 | 450 | 54 | 6 | 55 | 30 | 9 | 445 |
| C. fair | 27 | 0 | 0 | 2 | 67 | 0 | 0 | 1 | 33 | 442 | 16 | 13 | 75 | 0 | 13 | 450 | 19 | 3 | 43 | 40 | 15 | 441 |
| D. poor | 0 | | | | | | | | | | 6 | 0 | 67 | 33 | 0 | 448 | 3 | 2 | 28 | 42 | 29 | 435 |
| **How difficult was the science part of this test?** | | | | | | | | | | | | | | | | | | | | | | |
| A. harder than my regular schoolwork | 9 | 1 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 464 | 18 | 33 | 56 | 11 | 0 | 454 | 22 | 5 | 45 | 35 | 15 | 442 |
| B. about the same as my regular schoolwork | 55 | 0 | 0 | 4 | 67 | 0 | 0 | 2 | 33 | 440 | 55 | 7 | 75 | 11 | 7 | 447 | 62 | 7 | 53 | 31 | 9 | 445 |
| C. easier than my regular schoolwork | 36 | 0 | 0 | 2 | 50 | 1 | 25 | 1 | 25 | 441 | 27 | 7 | 71 | 14 | 7 | 449 | 16 | 7 | 52 | 28 | 13 | 444 |
| **How often do you have science classes?** | | | | | | | | | | | | | | | | | | | | | | |
| A. every day | 0 | | | | | | | | | | 10 | 0 | 80 | 20 | 0 | 451 | 24 | 7 | 48 | 33 | 12 | 444 |
| B. a few times a week | 91 | 1 | 10 | 6 | 60 | 1 | 10 | 2 | 20 | 444 | 57 | 14 | 62 | 17 | 7 | 448 | 53 | 7 | 54 | 31 | 9 | 445 |
| C. once a week | 0 | | | | | | | | | | 6 | 0 | 100 | 0 | 0 | 451 | 9 | 6 | 46 | 33 | 15 | 442 |
| D. a few times a month | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 100 | 426 | 27 | 14 | 79 | 0 | 7 | 451 | 14 | 5 | 50 | 31 | 14 | 443 |
| **Which statement best describes how you learn science?** | | | | | | | | | | | | | | | | | | | | | | |
| A. I mostly read a textbook and answer questions, and/or take notes and do assignments. I use science kits for demonstrations and experiments. | 73 | 1 | 13 | 5 | 63 | 0 | 0 | 2 | 25 | 445 | 39 | 15 | 65 | 10 | 10 | 448 | 25 | 5 | 48 | 34 | 13 | 443 |
| B. I work in groups to design and conduct experiments. | 9 | 0 | 0 | 0 | 0 | 1 | 100 | 0 | 0 | 438 | 12 | 17 | 50 | 33 | 0 | 450 | 27 | 4 | 46 | 37 | 13 | 442 |
| C. I do a combination of A and B, but mostly A. | 18 | 0 | 0 | 1 | 50 | 0 | 0 | 1 | 50 | 437 | 37 | 5 | 89 | 0 | 5 | 450 | 26 | 7 | 56 | 28 | 8 | 445 |
| D. I do a combination of A and B, but mostly B. | 0 | | | | | | | | | | 12 | 17 | 50 | 33 | 0 | 447 | 22 | 9 | 55 | 26 | 9 | 446 |
| **Optional school/SAU question** | | | | | | | | | | | | | | | | | | | | | | |
| A. | 0 | | | | | | | | | | 0 | | | | | | | | | | | |
| B. | 0 | | | | | | | | | | 50 | 0 | 100 | 0 | 0 | 454 | | | | | | |
| C. | 0 | | | | | | | | | | 50 | 0 | 100 | 0 | 0 | 460 | | | | | | |
| D. | 0 | | | | | | | | | | 0 | | | | | | | | | | | |

**E = Exceeds the Standards** **M = Meets the Standards** **P = Partially Meets the Standards** **D = Does Not Meet the Standards**
**N** = Number