July 2009

DEPARTMENT OF EDUCATION
2008–2009 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 accountability standards of Maine's *Learning Results*. The *Learning Results* contain goals for what all students should know and be able to do at certain times in their school careers and include the accountability standards that are assessed 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 2008-2009 MEA Summary Reports contain the results of student achievement in reading and mathematics at all grades and science at grades 5 and 8 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. More information about 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 assessments.

Sincerely,

Susan A. Gendron
Commissioner of Education

MEA
Maine Educational Assessment

School Report
Grade 4

Test Date:	March 2009
Code:	10161910
SAU:	Biddeford School Department
School:	Biddeford Intermediate 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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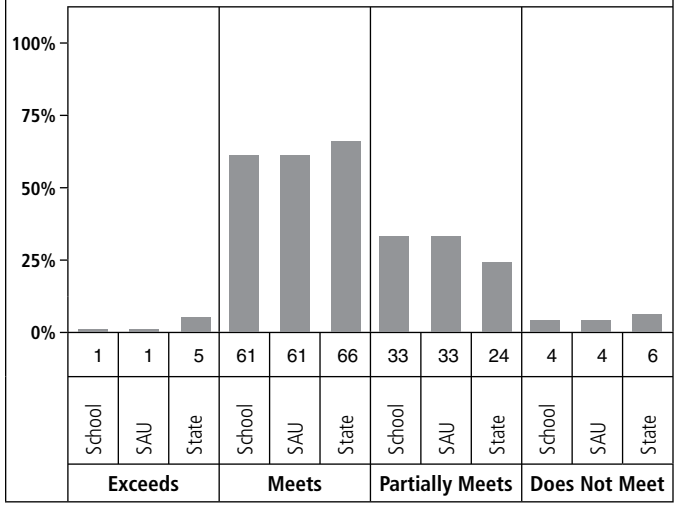
SUMMARY OF SCORES

Test Date: March 2009
Grade: 4
SAU: Biddeford School Department
School: Biddeford Intermediate School

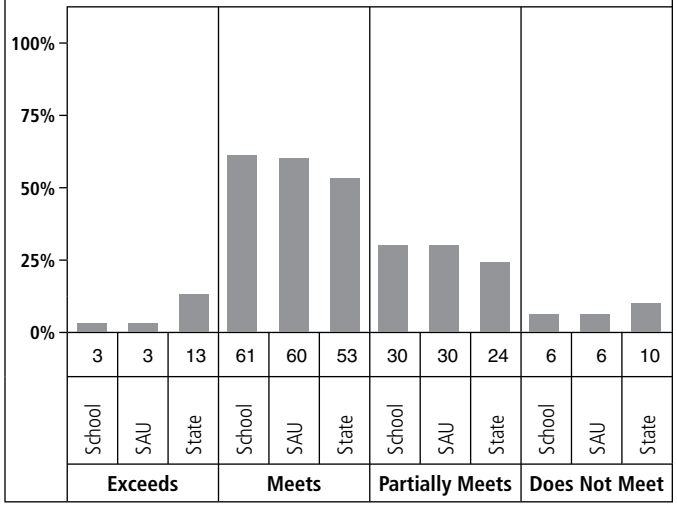
Summary of School, SAU, and State Scores

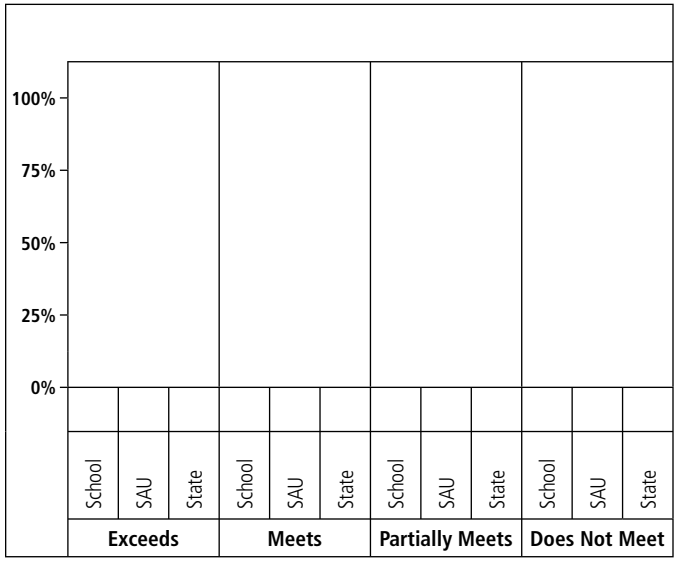
Year	Average Scaled Score		
	School	SAU	State
ELA – Reading			
2006–2007	443	443	445
2007–2008	444	444	445
2008–2009	**445**	**445**	**446**
Cum. Avg.*	444	444	445
Mathematics			
2006–2007	445	445	445
2007–2008	445	445	445
2008–2009	**444**	**444**	**446**
Cum. Avg.*	445	445	445

ELA – READING



MATHEMATICS





*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 2009
Grade: 4
SAU: Biddeford School Department
School: Biddeford Intermediate School

CATEGORY OF PARTICIPATION	Enrollment[1] during testing window						CONTENT AREA PARTICIPATION[2]																	
							ELA–Reading						Mathematics											
	School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Total number of students	205	100	206	100	13805	100	204	100	205	100	13737	100	204	100	205	100	13746	100						
Ethnicity African American/Black	8	4	8	4	419	3	8	100	8	100	410	98	8	100	8	100	416	99						
American Indian or Native Alaskan	0	0	0	0	125	1	0	0	0	0	124	99	0	0	0	0	124	99						
Asian or Pacific Islander	4	2	4	2	229	2	4	100	4	100	223	97	4	100	4	100	227	99						
Hispanic	2	1	2	1	149	1	2	100	2	100	148	99	2	100	2	100	148	99						
Caucasian/White	191	93	192	93	12883	93	190	99	191	99	12832	100	190	99	191	99	12831	100						
Not Reported	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Identified disability	45	22	46	22	2383	17	44	98	45	98	2366	100	44	98	45	98	2364	99						
Current LEP	4	2	4	2	377	3	4	100	4	100	362	96	4	100	4	100	373	99						
Economically disadvantaged	111	54	112	54	5819	42	110	99	111	99	5782	99	110	99	111	99	5788	100						
Migrant	0	0	0	0	6	0	0	0	0	0	6	100	0	0	0	0	6	100						

MODE OF PARTICIPATION[3]	ELA–Reading						Mathematics											
	School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Participation without accommodations	96	47	96	47	10439	76	96	47	96	47	10471	76						
Identified disability (PET/IEP)	2	2	2	2	351	3	2	2	2	2	367	4						
LEP	0	0	0	0	171	2	0	0	0	0	172	2						
504 plan	0	0	0	0	92	1	0	0	0	0	90	1						
Participation with accommodations	105	51	106	51	3142	23	105	51	106	51	3138	23						
Identified disability (PET/IEP)	39	37	40	38	1860	59	39	37	40	38	1860	59						
LEP	4	4	4	4	186	6	4	4	4	4	198	6						
504 plan	0	0	0	0	71	2	0	0	0	0	73	2						
Other	62	59	62	58	1060	34	62	59	62	58	1043	33						
Participation through alternate assessment (PAAP)	3	1	3	1	155	1	3	1	3	1	137	1						
Identified disability (PET/IEP)	3	100	3	100	155	100	3	100	3	100	137	100						
LEP	0	0	0	0	4	3	0	0	0	0	3	2						
504 plan	0	0	0	0	0	0	0	0	0	0	0	0						
Approved non-participation in reading – 1st year LEP	0	0	0	0	1	0												
Approved non-participation – special consideration	0	0	0	0	11	0	0	0	0	0	11	0						
Non-participation – other	1	0	1	0	57	0	1	0	1	0	48	0						

[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 2009
Grade:	4
SAU:	Biddeford School Department
School:	Biddeford Intermediate School

ACHIEVEMENT LEVEL DEFINITIONS

The quality of a student's work at each achievement level reflects progress in attaining Maine's *Learning Results: Parameters for Essential Instruction* 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 462–480)	2006-2007	0	0	0	0	507	4
	2007-2008	1	1	1	1	559	4
	2008-2009	**3**	**1**	**3**	**1**	**672**	**5**
	Cum. Total*	4	1	4	1	1738	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 442–460)	2006-2007	108	57	108	56	8749	63
	2007-2008	114	60	114	60	8308	59
	2008-2009	**122**	**61**	**123**	**61**	**8917**	**66**
	Cum. Total*	344	59	345	59	25974	63
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 432–440)	2006-2007	66	35	67	35	3467	25
	2007-2008	63	33	63	33	3922	28
	2008-2009	**67**	**33**	**67**	**33**	**3241**	**24**
	Cum. Total*	196	34	197	34	10630	26
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)	2006-2007	17	9	17	9	1165	8
	2007-2008	12	6	12	6	1264	9
	2008-2009	**9**	**4**	**9**	**4**	**751**	**6**
	Cum. Total*	38	7	38	7	3180	8

Learning Results Content Standards	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Reading Total Points	**48**	**100**	30.3	63.1	30.3	63.1	31.6	65.8
A1/A2 Interconnected Elements/Literary Text	**24**	**50**	15.3	63.8	15.3	63.8	16.1	67.1
A1/A3 Interconnected Elements/Informational Text	**24**	**50**	15.0	62.5	15.0	62.5	15.5	64.6

The MEA assesses students' reading skills based on questions related to two types of reading passages: literary and informational. Reading passages include both long and short texts, selected from developmentally appropriate works. MEA reading items measure the English Language Arts accountability content standard A, Reading, contained in Maine's 2007 *Learning Results: Parameters for Essential Instruction*, which can be found at: http://www.maine.gov/education/lres/pei/index.html.

*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 2009
Grade: 4
SAU: Biddeford School Department
School: Biddeford Intermediate 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	201	3	1	122	61	67	33	9	4	445	202	1	61	33	4	445	13581	5	66	24	6	446
Ethnicity																						
African American/Black	8	0	0	5	63	3	38	0	0	443	8	0	63	38	0	443	408	2	51	31	16	441
American Indian or Native Alaskan	0										0						122	1	59	34	6	444
Asian or Pacific Islander	4										4						221	9	62	22	7	447
Hispanic	2										2						146	1	64	28	6	445
Caucasian/White	187	3	2	114	61	61	33	9	5	445	188	2	61	32	5	445	12684	5	66	24	5	446
Not Reported	0										0						0					
Identified disability																						
Yes	41	0	0	16	39	19	46	6	15	440	42	0	40	45	14	440	2211	1	39	42	18	439
No	160	3	2	106	66	48	30	3	2	446	160	2	66	30	2	446	11370	6	71	20	3	448
Current LEP																						
Yes	4										4						357	3	42	36	19	440
No	197	3	2	119	60	66	34	9	5	445	198	2	61	33	5	445	13224	5	66	24	5	446
Economically disadvantaged																						
Yes	108	1	1	58	54	40	37	9	8	443	109	1	54	37	8	443	5677	2	57	32	9	443
No	93	2	2	64	69	27	29	0	0	446	93	2	69	29	0	446	7904	7	72	18	3	448
Migrant																						
Yes	0										0						6	0	67	33	0	445
No	201	3	1	122	61	67	33	9	4	445	202	1	61	33	4	445	13575	5	66	24	6	446
Gender																						
Female	100	0	0	64	64	30	30	6	6	445	100	0	64	30	6	445	6580	7	68	21	5	448
Male	101	3	3	58	57	37	37	3	3	444	102	3	58	36	3	444	7001	3	64	27	6	445
Not Reported	0										0						0					
Title 1A targeted program																						
Yes	63	0	0	26	41	34	54	3	5	441	63	0	41	54	5	441	2127	1	48	42	9	441
No	138	3	2	96	70	33	24	6	4	446	139	2	70	24	4	446	11454	6	69	20	5	447
Gifted/talented program																						
Yes	0										0						324	27	72	1	0	458
No	201	3	1	122	61	67	33	9	4	445	202	1	61	33	4	445	13257	4	65	24	6	446

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 2009
Grade: 4
SAU: Biddeford School Department
School: Biddeford Intermediate 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	7	0	0	6	40	8	53	1	7	440	7	0	40	53	7	440	4	2	45	36	17	441
B. less than one hour	68	2	1	86	63	43	32	5	4	445	68	1	64	31	4	445	75	5	67	23	4	447
C. one to two hours	22	1	2	27	61	14	32	2	5	445	22	2	61	32	5	445	18	5	67	23	5	447
D. more than two hours	3	0	0	3	50	2	33	1	17	441	3	0	50	33	17	441	2	3	45	36	16	442
Which of the following best describes how you rate yourself as a student in reading?																						
A. very good	43	2	2	53	62	29	34	2	2	446	43	2	62	34	2	446	40	8	71	17	4	449
B. good	42	1	1	54	64	24	29	5	6	444	43	1	65	28	6	444	45	3	66	25	5	446
C. fair	12	0	0	11	48	11	48	1	4	442	12	0	48	48	4	442	13	1	54	35	10	442
D. poor	3	0	0	3	50	3	50	0	0	442	3	0	50	50	0	442	2	0	39	42	19	439
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.	29	0	0	39	67	16	28	3	5	446	29	0	67	28	5	446	31	8	69	19	4	448
B. They match some of what I have learned.	56	3	3	69	61	39	35	2	2	445	56	3	61	34	2	445	53	4	68	23	4	447
C. They match just a little of what I have learned.	11	0	0	10	45	10	45	2	9	441	11	0	45	45	9	441	11	2	54	35	10	442
D. There is no match.	4	0	0	4	50	2	25	2	25	439	4	0	50	25	25	439	4	1	39	40	20	439
How hard was the reading part of this test?																						
A. harder than my regular schoolwork	23	1	2	20	43	19	41	6	13	441	23	2	43	41	13	441	19	4	54	31	11	443
B. about the same as my regular schoolwork	58	1	1	74	64	38	33	3	3	445	58	1	64	32	3	445	63	6	69	22	4	447
C. easier than my regular schoolwork	19	1	3	27	71	10	26	0	0	446	19	3	71	26	0	446	18	4	68	23	5	446
How hard were the reading passages on this test?																						
A. Most of the passages were harder than what I normally read.	14	1	4	9	32	15	54	3	11	440	14	4	32	54	11	440	13	0	39	43	17	439
B. Most of the passages were about the same as what I normally read.	54	1	1	63	59	38	36	4	4	444	54	1	60	36	4	444	52	4	69	24	4	446
C. Most of the passages were easier than what I normally read.	32	1	2	48	75	14	22	1	2	447	32	2	75	22	2	447	35	9	72	16	3	449
How much time do you spend reading at home each day?																						
A. more than one hour	18	0	0	25	69	11	31	0	0	448	18	0	69	31	0	448	21	8	68	19	5	448
B. 20 minutes to an hour	40	2	3	53	66	21	26	4	5	445	40	3	66	26	5	445	55	5	70	21	4	447
C. less than 20 minutes	13	0	0	14	52	11	41	2	7	443	14	0	54	39	7	443	13	2	57	33	8	443
D. I rarely read at home.	29	1	2	30	52	24	41	3	5	443	29	2	52	41	5	443	11	1	51	37	11	442
How many pages do you read in school and to complete homework assignments?																						
A. five or fewer pages	38	1	1	33	45	34	46	6	8	442	38	1	45	45	8	442	25	3	59	30	8	444
B. six to ten pages	31	0	0	42	69	18	30	1	2	445	31	0	69	30	2	445	24	4	64	26	6	445
C. eleven or more pages	31	2	3	44	72	14	23	1	2	447	31	3	72	23	2	447	51	7	70	20	4	448
Optional school/SAU question																						
A.	10	0	0	1	50	1	50	0	0	443	10	0	50	50	0	443						
B.	70	0	0	8	57	6	43	0	0	442	70	0	57	43	0	442						
C.	5	0	0	0	0	1	100	0	0	440	5	0	0	100	0	440						
D.	15	0	0	1	33	2	67	0	0	439	15	0	33	67	0	439						

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 2009
Grade:	4
SAU:	Biddeford School Department
School:	Biddeford Intermediate School

ACHIEVEMENT LEVEL DEFINITIONS

The quality of a student's work at each achievement level reflects progress in attaining Maine's *Learning Results: Parameters for Essential Instruction* 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 462–480)	2006-2007	14	7	14	7	1054	8
	2007-2008	15	8	15	8	1321	9
	2008-2009	**6**	**3**	**6**	**3**	**1712**	**13**
	Cum. Total*	35	6	35	6	4087	10
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 442–460)	2006-2007	104	54	105	54	7394	53
	2007-2008	103	54	103	54	7079	51
	2008-2009	**122**	**61**	**122**	**60**	**7270**	**53**
	Cum. Total*	329	56	330	56	21743	52
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 430–440)	2006-2007	57	30	57	30	3729	27
	2007-2008	56	29	56	29	3955	28
	2008-2009	**61**	**30**	**61**	**30**	**3219**	**24**
	Cum. Total*	174	30	174	30	10903	26
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)	2006-2007	17	9	17	9	1735	12
	2007-2008	16	8	16	8	1642	12
	2008-2009	**12**	**6**	**13**	**6**	**1408**	**10**
	Cum. Total*	45	8	46	8	4785	12

Learning Results Content Standards	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Mathematics Total Points	**48**	**100**	29.3	61.0	29.3	61.0	30.8	64.2
A. Number	**20**	**42**	11.6	58.0	11.6	58.0	12.5	62.5
B. Data	**8**	**17**	5.0	62.5	5.0	62.5	5.3	66.3
C. Geometry	**10**	**21**	6.3	63.0	6.3	63.0	6.5	65.0
D. Algebra	**10**	**21**	6.4	64.0	6.4	64.0	6.5	65.0

The MEA assesses students' mathematics knowledge based on questions that measure the mathematics accountability content standards contained in Maine's 2007 *Learning Results: Parameters for Essential Instruction*, which can be found at: http://www.maine.gov/education/lres/pei/index.html.

Content Standard A, Number, includes Whole Number, Rational Number, and Real Number.

Content Standard B, Data, includes Measurement and Approximation, Data Analysis, and Probability.

Content Standard C, Geometry, includes Geometric Figures, Geometric Measurement, and Transformations.

Content Standard D, Algebra, includes Symbols and Expressions, Equations and Inequalities, and Functions and Relations.

*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 2009
Grade: 4
SAU: Biddeford School Department
School: Biddeford Intermediate 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	201	6	3	122	61	61	30	12	6	444	202	3	60	30	6	444	13609	13	53	24	10	446
Ethnicity																						
African American/Black	8	0	0	5	63	3	38	0	0	444	8	0	63	38	0	444	415	5	41	30	24	439
American Indian or Native Alaskan	0										0						123	12	46	28	13	445
Asian or Pacific Islander	4										4						225	22	45	20	12	448
Hispanic	2										2						147	3	58	30	10	443
Caucasian/White	187	6	3	113	60	56	30	12	6	444	188	3	60	30	7	444	12699	13	54	23	10	447
Not Reported	0										0						0					
Identified disability																						
Yes	41	0	0	16	39	19	46	6	15	437	42	0	38	45	17	437	2227	3	34	33	30	437
No	160	6	4	106	66	42	26	6	4	446	160	4	66	26	4	446	11382	14	57	22	7	448
Current LEP																						
Yes	4										4						370	7	35	31	27	439
No	197	6	3	119	60	60	30	12	6	444	198	3	60	30	7	444	13239	13	54	23	10	447
Economically disadvantaged																						
Yes	108	3	3	53	49	42	39	10	9	442	109	3	49	39	10	442	5704	6	48	30	16	442
No	93	3	3	69	74	19	20	2	2	446	93	3	74	20	2	446	7905	18	57	19	6	450
Migrant																						
Yes	0										0						6	17	33	50	0	448
No	201	6	3	122	61	61	30	12	6	444	202	3	60	30	6	444	13603	13	53	24	10	446
Gender																						
Female	100	3	3	57	57	31	31	9	9	443	100	3	57	31	9	443	6591	12	54	24	11	446
Male	101	3	3	65	64	30	30	3	3	445	102	3	64	29	4	444	7018	13	53	24	10	447
Not Reported	0										0						0					
Title 1A targeted program																						
Yes	63	0	0	27	43	32	51	4	6	440	63	0	43	51	6	440	2131	3	41	38	18	440
No	138	6	4	95	69	29	21	8	6	446	139	4	68	21	6	445	11478	14	56	21	9	448
Gifted/talented program																						
Yes	0										0						324	64	34	2	0	464
No	201	6	3	122	61	61	30	12	6	444	202	3	60	30	6	444	13285	11	54	24	11	446

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 2009
Grade: 4
SAU: Biddeford School Department
School: Biddeford Intermediate 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	7	0	0	4	27	8	53	3	20	434	7	0	27	53	20	434	4	4	37	30	28	438
B. less than one hour	68	3	2	87	64	40	29	6	4	445	68	2	64	29	5	444	75	13	55	23	9	447
C. one to two hours	22	3	7	27	61	11	25	3	7	445	22	7	61	25	7	445	18	12	54	24	10	446
D. more than two hours	3	0	0	4	67	2	33	0	0	443	3	0	67	33	0	443	2	7	39	29	25	440
Which of the following best describes how you rate yourself as a student in mathematics?																						
A. very good	44	4	5	56	64	23	26	4	5	445	43	5	64	26	5	445	37	22	56	16	7	451
B. good	44	1	1	55	63	25	28	7	8	443	44	1	63	28	8	443	45	9	56	25	9	446
C. fair	11	1	5	9	43	11	52	0	0	443	11	5	41	50	5	442	14	3	46	34	17	440
D. poor	2	0	0	1	25	2	50	1	25	435	2	0	25	50	25	435	3	2	33	35	29	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.	36	4	6	44	61	23	32	1	1	447	36	6	61	32	1	447	35	19	56	19	7	450
B. They match some of what I have learned.	49	2	2	63	64	26	26	8	8	443	49	2	64	26	8	443	51	11	56	25	8	446
C. They match just a little of what I have learned.	12	0	0	13	54	10	42	1	4	441	12	0	52	40	8	440	10	5	43	31	21	440
D. There is no match.	3	0	0	2	33	2	33	2	33	434	3	0	33	33	33	434	4	3	26	33	37	434
How hard was the mathematics part of this test?																						
A. harder than my regular schoolwork	15	0	0	19	63	9	30	2	7	442	16	0	61	29	10	442	17	5	44	31	20	441
B. about the same as my regular schoolwork	63	5	4	78	62	37	30	5	4	445	63	4	62	30	4	445	62	13	57	23	7	448
C. easier than my regular schoolwork	22	1	2	25	57	15	34	3	7	444	22	2	57	34	7	444	21	18	53	19	10	449
On average, how many minutes a day do you spend working on mathematics in class?																						
A. less than 30 minutes	8	1	6	7	41	7	41	2	12	441	8	6	41	41	12	441	7	6	36	32	27	438
B. 30–45 minutes	28	1	2	25	44	25	44	6	11	440	29	2	43	43	12	439	25	7	52	28	12	444
C. 45–60 minutes	49	3	3	69	70	23	23	3	3	446	49	3	70	23	3	446	38	14	56	22	8	448
D. more than 60 minutes	14	1	3	21	72	6	21	1	3	446	14	3	72	21	3	446	30	18	56	19	7	449
How often do you use calculators in mathematics class?																						
A. almost every day	1	0	0	0	0	1	100	0	0	432	0	0	0	100	0	432	3	4	36	31	28	438
B. two or three days a week	7	0	0	10	77	3	23	0	0	446	6	0	77	23	0	446	12	13	51	26	10	446
C. two or three times each month	25	1	2	30	61	14	29	4	8	444	25	2	60	28	10	443	32	15	58	20	7	449
D. never or almost never	69	5	4	82	60	42	31	8	6	444	68	4	60	31	6	444	53	11	53	25	11	446
How often do you use hands-on materials in mathematics class?																						
A. almost every day	24	0	0	25	53	20	43	2	4	441	24	0	52	42	6	441	26	12	50	25	13	445
B. two or three days a week	30	3	5	45	76	10	17	1	2	448	29	5	76	17	2	448	32	14	57	21	7	448
C. two or three times each month	22	1	2	24	55	13	30	6	14	443	22	2	55	30	14	443	26	13	56	22	8	448
D. never or almost never	25	2	4	27	54	18	36	3	6	442	25	4	54	36	6	442	17	9	50	27	13	444
Optional school/SAU question																						
A.	10	0	0	1	50	0	0	1	50	437	10	0	50	0	50	437						
B.	70	0	0	10	71	3	21	1	7	443	70	0	71	21	7	443						
C.	5	0	0	0	0	1	100	0	0	438	5	0	0	100	0	438						
D.	15	0	0	1	33	2	67	0	0	439	15	0	33	67	0	439						

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