



School Report



Grade 9 Assessment of Mathematics, 2006–2007

School: Sir William Mulock SS (942340)
Board: York Region DSB (66095)

I am pleased to provide you with this report on the Grade 9 Assessments of Mathematics for 2006–2007. Included are student results for the current year, those from previous years and, to put these results in context, information about the student populations.

Throughout the province, EQAO data inform professional practice and act as a catalyst for improving student achievement. This report has been designed to assist you in your conversations about improving student achievement and planning interventions for students.

We believe that every student deserves the best outcome from public education. Working with Ontario educators, EQAO continues to design assessments that are directly linked to *The Ontario Curriculum*. These assessments provide a means of measuring student learning at a few critical transition points and are a vehicle for assuring people that, at those points, all Ontario students are being assessed by the same yardstick.

However, large-scale assessment results are just one piece of the picture of how students are doing in our schools. These assessment results should be considered in conjunction with school-based information. As well, regular assessments conducted by a student’s teacher should be the primary method of supporting students in their schooling.

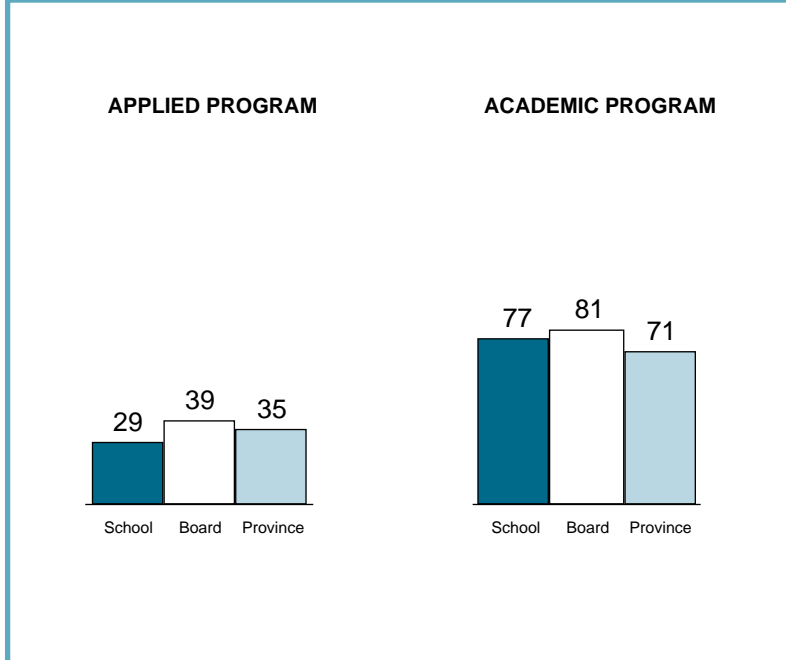
I hope this report will help parents, educators and all who support a strong public education system to work together so that all students achieve their fullest potential.

Sincerely,

Marguerite Jackson
 Chief Executive Officer

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PERCENTAGE OF ALL STUDENTS AT OR ABOVE THE PROVINCIAL STANDARD (LEVELS 3 AND 4), 2006–2007



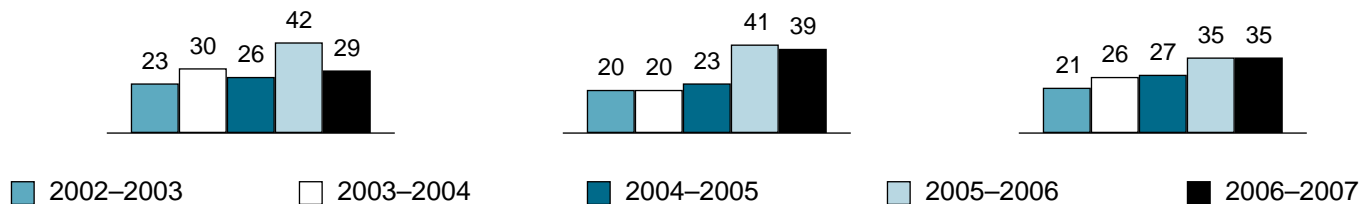
PERCENTAGE OF ALL STUDENTS AT OR ABOVE THE PROVINCIAL STANDARD (LEVELS 3 AND 4) OVER TIME

APPLIED MATHEMATICS*

School

Board

Province



	Total Number of Students				
	<u>2002-2003</u>	<u>2003-2004</u>	<u>2004-2005</u>	<u>2005-2006</u>	<u>2006-2007</u>
School	65	69	65	73	65
Board	1 633	1 654	1 839	1 656	1 764
Province	48 426	50 430	51 155	50 687	49 056

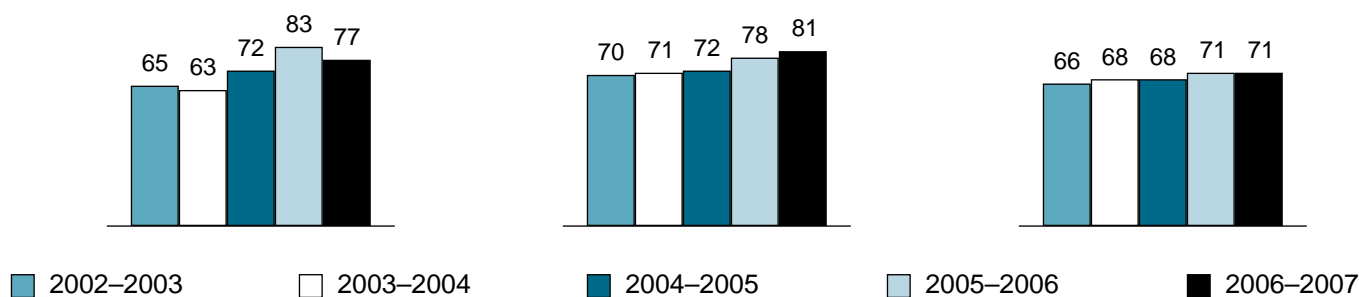
* Note that significant revisions were made to applied program courses in 2004-2005 as reflected in *The Ontario Curriculum, Grades 9 and 10: Mathematics* (revised 2005).

ACADEMIC MATHEMATICS

School

Board

Province



	Total Number of Students				
	<u>2002-2003</u>	<u>2003-2004</u>	<u>2004-2005</u>	<u>2005-2006</u>	<u>2006-2007</u>
School	175	164	181	195	207
Board	6 224	6 460	6 820	6 589	6 556
Province	100 717	102 923	104 100	103 412	103 011

TIPS

The applied and academic mathematics programs are different and should be considered separately.

Note: Students in locally developed programs do not participate in these assessments.



Each school or board is unique. To appreciate the distinctive character of a school or board, look at the contextual information to understand the features and characteristics of the community it serves.



This assessment captures the performance of students at one point in time each year. Consider the results along with other information about students' achievement in mathematics.



Exercise caution when interpreting results for small schools or boards. Results may vary considerably from year to year, and differences may look exaggerated. For example, in a school of 30 students, a difference of 10% represents only three students.



Trends may be difficult to identify or to interpret. This is especially true when groups are small or in schools where there is a high turnover in the student population.



EQAO values students' privacy. Results are not reported publicly for schools where fewer than 15 students participated, because it might be possible to identify individual students.

WHAT IS IN THIS REPORT?

This report shows how well students have met curriculum expectations for either the applied or academic mathematics program to the end of Grade 9. Students complete two booklets that allow them to show what they know in mathematics. The assessment is based on *The Ontario Curriculum: Mathematics, Grades 9 and 10*.

This report includes

- ◆ results for this year;
- ◆ a comparison of results over the past four years to aid in monitoring improvement and
- ◆ information about the characteristics of the students who participated.

Specifically, you will find

- ◆ summary graphs showing the percentage of students achieving the provincial standard in either applied or academic mathematics;
- ◆ detailed tables and graphs showing results for all levels of achievement, participation information and results for gender
- ◆ student questionnaire results and
- ◆ an explanation of all terms used in this report.

HOW TO USE THIS REPORT

- ◆ Examine the contextual information to understand the similarities and differences between this school, the board and the province; the board and the province. Consider the challenges that any differences might present.
- ◆ Examine the school results for applied and academic mathematics.
 - Are these results consistent with what you would expect?
 - How do the school results compare to the board and province; the board results compare to the province?
 - How do these results compare over time? Note that significant revisions were made to applied program courses in 2004–2005 as reflected in *The Ontario Curriculum, Grades 9 and 10: Mathematics* (revised 2005).
 - What influence might students' attitudes have on student performance?
- ◆ Speak to the school principal or the school council chair about the goals for school improvement related to mathematics.

The Education Quality and Accountability Office is an independent agency that gathers information about student achievement through province-wide assessments. Each year, all Grade 9 students in applied and academic mathematics take part in this assessment across Ontario. Individual results are reported to students and to parents and guardians. School, board and provincial results are released publicly.

Learn more about us at www.eqao.com.

Grade 9 Applied Mathematics Program, 2006–2007

Contextual Information

This information provides a context for interpreting the school's applied mathematics program results.

	School		Board		Province	
Enrolment						
Number of students in applied mathematics program	65		1 764		49 056	
Number of classes with students in applied mathematics program	4		132		2 909	
Number of schools with applied mathematics classes	Not applicable		29		712	
Number Percent Number Percent Number Percent						
Participation in the Assessment						
Students who participated in the assessment	56	86%	1 658	94%	44 790	91%
Participating students who received one or more accommodations	13	23%	483	29%	7 172	16%
Participating students who received one or more special provisions	0	0%	45	3%	814	2%
Students who did not complete any part of the assessment (no data)*	9	14%	106	6%	4 266	9%
Gender[†] Based on number of students enrolled						
Female	32	49%	759	43%	22 126	45%
Male	33	51%	1 005	57%	26 926	55%
Gender not specified	0	0%	0	0%	4	<1%
Student Status[†] Based on number of students enrolled						
ESL/ELD learners*	3	5%	110	6%	2 396	5%
Students with special needs (excluding gifted)*	27	42%	752	43%	12 562	26%
Semester/Full Year Based on number of students enrolled						
First-semester course	35	54%	772	44%	21 671	44%
Second-semester course	30	46%	804	46%	21 969	45%
Full-year course	0	0%	188	11%	5 416	11%
Language and School Background^{††}						
<i>Based on Student Questionnaire data</i>						
Number of Respondents:						
	56		1 602		42 804	
Speak only or mostly a language other than English at home	2	4%	126	8%	2 714	6%
Speak another language as often as English at home	8	14%	262	16%	4 482	10%
Attended three or more elementary schools from kindergarten to Grade 8	26	46%	687	43%	17 239	40%

* See the Explanation of Terms.

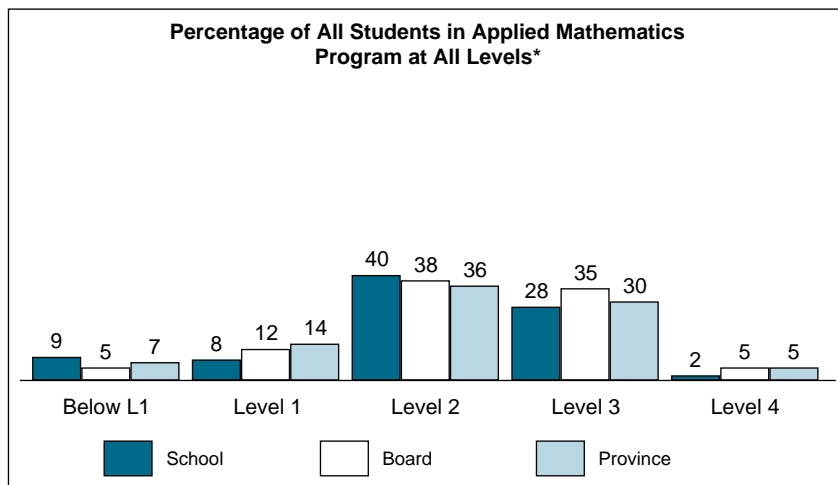
† Demographic information pertaining to "gender" and "student status" are provided by schools and/or boards through the Student Data Collection process. Some data may be missing because they were not provided by the school.

†† Demographic information pertaining to "school background" and "language" are gathered from the Student Questionnaire completed by students. Some data may be missing because they were not provided by the students.

Grade 9 Applied Mathematics Program, 2006–2007

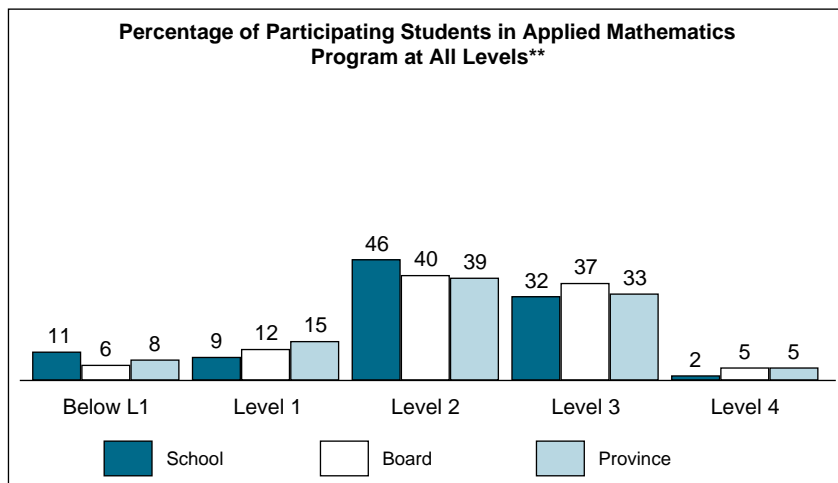
Results for All Students

All Students, 2006–2007*				
Number of Students	School 65		Board 1 764	Province 49 056
	#	%	%	%
Level 4	1	2%	5%	5%
Level 3	18	28%	35%	30%
Level 2	26	40%	38%	36%
Level 1	5	8%	12%	14%
Below Level 1	6	9%	5%	7%
Participating Students	56	86%	94%	91%
No Data†	9	14%	6%	9%
At or Above Provincial Standard (Levels 3 and 4) †		29%	39%	35%



Results for Participating Students (excludes "no data" category)

Participating Students, 2006–2007**				
Number of Students	School 56		Board 1 658	Province 44 790
	#	%	%	%
Level 4	1	2%	5%	5%
Level 3	18	32%	37%	33%
Level 2	26	46%	40%	39%
Level 1	5	9%	12%	15%
Below Level 1	6	11%	6%	8%
At or Above Provincial Standard (Levels 3 and 4) †		34%	42%	38%

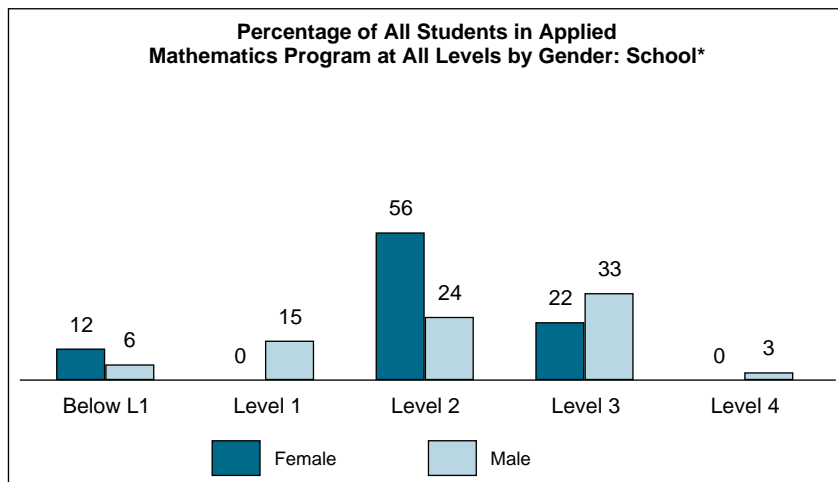


* Because percentages in tables and graphs are rounded, and because graphs do not show all reporting categories, percentages may not add to 100.
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 † These percentages are based on the actual number of students and cannot be calculated simply by adding the rounded percentages of students at Levels 3 and 4.
 ‡ Students who were coded "exempt" were placed in the "no data" category.

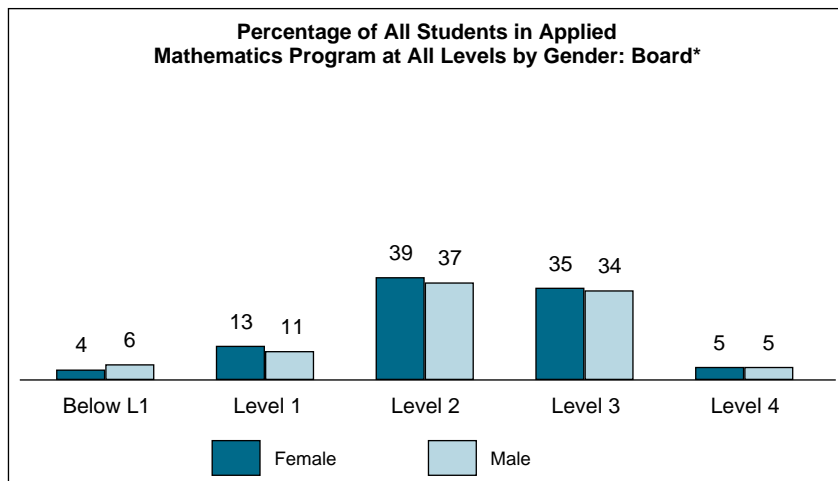
Grade 9 Applied Mathematics Program, 2006–2007

Results by Gender††

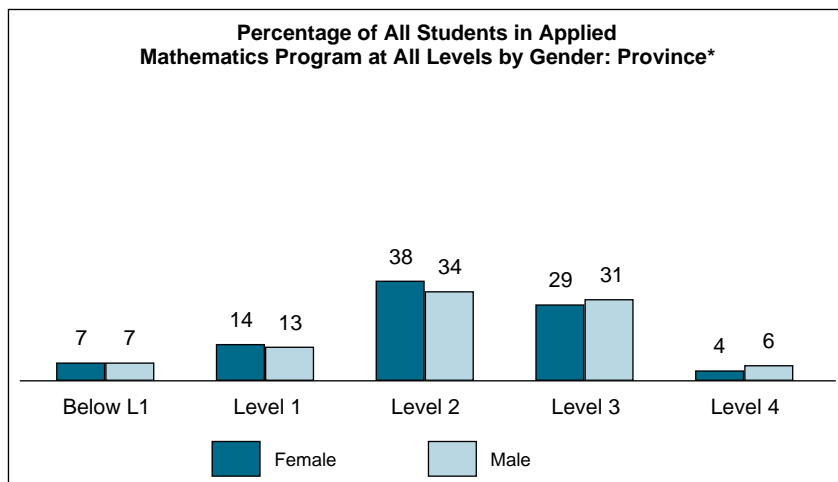
All Students, 2006–2007: School by Gender*				
Number of Students	Female 32		Male 33	
	#	%	#	%
Level 4	0	0%	1	3%
Level 3	7	22%	11	33%
Level 2	18	56%	8	24%
Level 1	0	0%	5	15%
Below Level 1	4	12%	2	6%
Participating Students	29	91%	27	82%
No Data‡	3	9%	6	18%
At or Above Provincial Standard (Levels 3 and 4) †	22%		36%	



All Students, 2006–2007: Board by Gender*				
Number of Students	Female 759		Male 1 005	
	#	%	#	%
Level 4	35	5%	50	5%
Level 3	267	35%	343	34%
Level 2	294	39%	372	37%
Level 1	95	13%	110	11%
Below Level 1	34	4%	58	6%
Participating Students	725	96%	933	93%
No Data‡	34	4%	72	7%
At or Above Provincial Standard (Levels 3 and 4) †	40%		39%	



All Students, 2006–2007: Province by Gender*				
Number of Students	Female 22 126		Male 26 926	
	#	%	#	%
Level 4	807	4%	1 550	6%
Level 3	6 416	29%	8 470	31%
Level 2	8 402	38%	9 091	34%
Level 1	3 183	14%	3 445	13%
Below Level 1	1 458	7%	1 968	7%
Participating Students	20 266	92%	24 524	91%
No Data‡	1 860	8%	2 402	9%
At or Above Provincial Standard (Levels 3 and 4) †	33%		37%	



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 †† Includes only students for whom gender data were available.
 ‡ Students who were coded “exempt” were placed in the “no data” category.

Grade 9 Academic Mathematics Program, 2006–2007

Contextual Information

This information provides a context for interpreting the school's academic mathematics program results.

	School		Board		Province	
Enrolment						
Number of students in academic mathematics program	207		6 556		103 011	
Number of classes with students in academic mathematics program	7		243		4 169	
Number of schools with academic mathematics classes	Not applicable		29		679	
Number Percent Number Percent Number Percent						
Participation in the Assessment						
Students who participated in the assessment	202	98%	6 427	98%	101 426	98%
Participating students who received one or more accommodations	3	1%	265	4%	2 265	2%
Participating students who received one or more special provisions	1	<1%	160	2%	1 204	1%
Students who did not complete any part of the assessment (no data)*	5	2%	129	2%	1 585	2%
Gender[†] Based on number of students enrolled						
Female	100	48%	3 309	50%	52 887	51%
Male	107	52%	3 247	50%	50 122	49%
Gender not specified	0	0%	0	0%	2	<1%
Student Status[†] Based on number of students enrolled						
ESL/ELD learners*	5	2%	353	5%	3 118	3%
Students with special needs (excluding gifted)*	6	3%	338	5%	3 913	4%
Semester/Full Year Based on number of students enrolled						
First-semester course	91	44%	2 953	45%	44 087	43%
Second-semester course	116	56%	2 804	43%	44 267	43%
Full-year course	0	0%	799	12%	14 657	14%
Language and School Background^{††} Based on Student Questionnaire data						
Number of Respondents:		201	6 292		98 764	
Speak only or mostly a language other than English at home	15	7%	917	15%	8 522	9%
Speak another language as often as English at home	19	9%	1 386	22%	13 200	13%
Attended three or more elementary schools from kindergarten to Grade 8	66	33%	2 599	41%	34 728	35%

* See the Explanation of Terms.

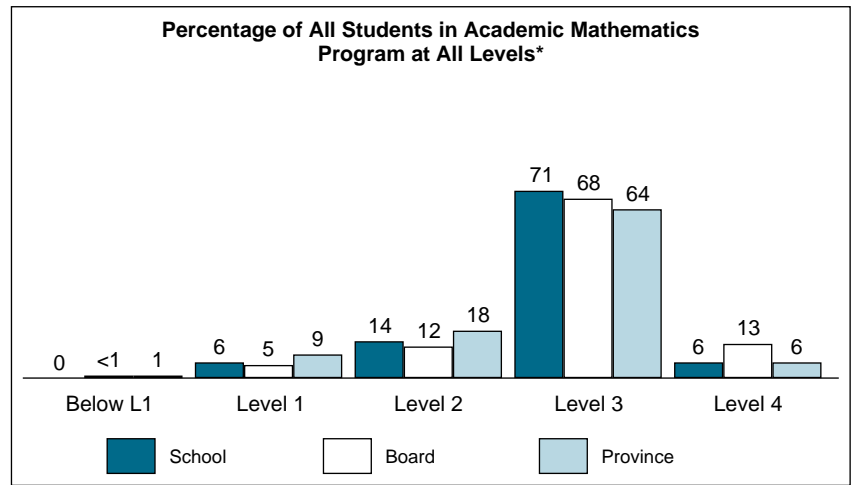
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Grade 9 Academic Mathematics Program, 2006–2007

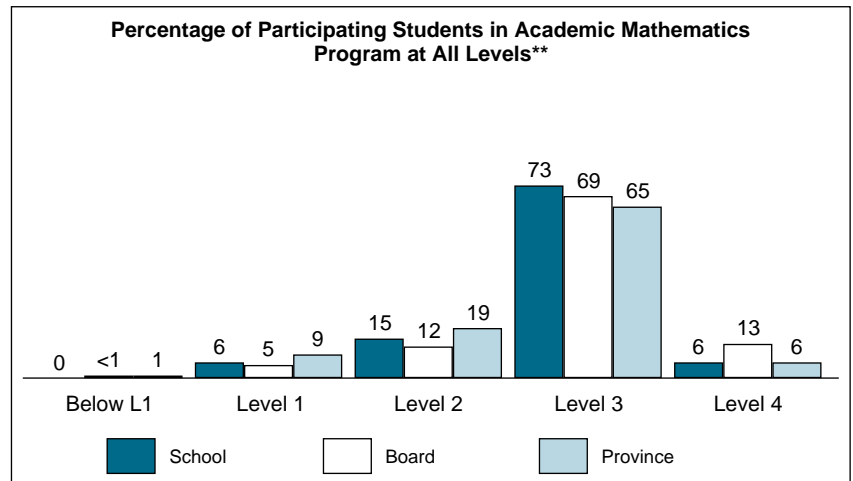
Results for All Students

All Students, 2006–2007*				
Number of Students	School 207		Board 6 556	Province 103 011
	#	%	%	%
Level 4	12	6%	13%	6%
Level 3	148	71%	68%	64%
Level 2	30	14%	12%	18%
Level 1	12	6%	5%	9%
Below Level 1	0	0%	<1%	1%
Participating Students	202	98%	98%	98%
No Data†	5	2%	2%	2%
At or Above Provincial Standard (Levels 3 and 4) †		77%	81%	71%



Results for Participating Students (excludes "no data" category)

Participating Students, 2006–2007**				
Number of Students	School 202		Board 6 427	Province 101 426
	#	%	%	%
Level 4	12	6%	13%	6%
Level 3	148	73%	69%	65%
Level 2	30	15%	12%	19%
Level 1	12	6%	5%	9%
Below Level 1	0	0%	<1%	1%
At or Above Provincial Standard (Levels 3 and 4) †		79%	83%	72%

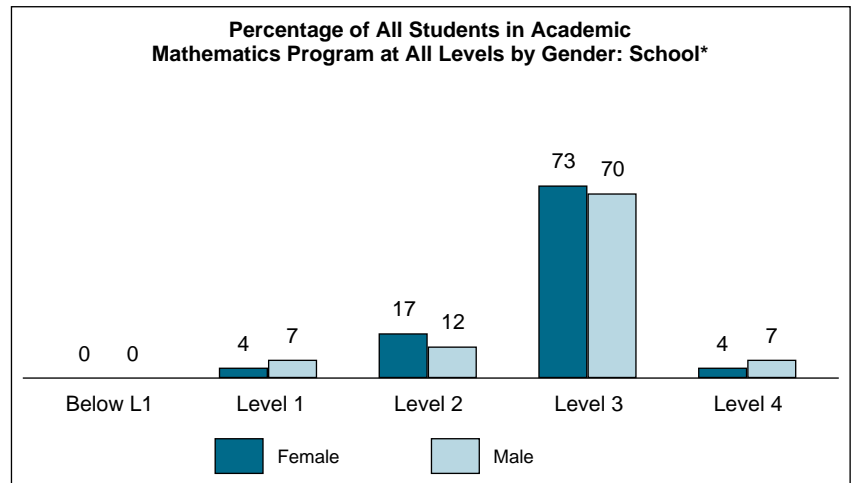


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 ‡ Students who were coded "exempt" were placed in the "no data" category.

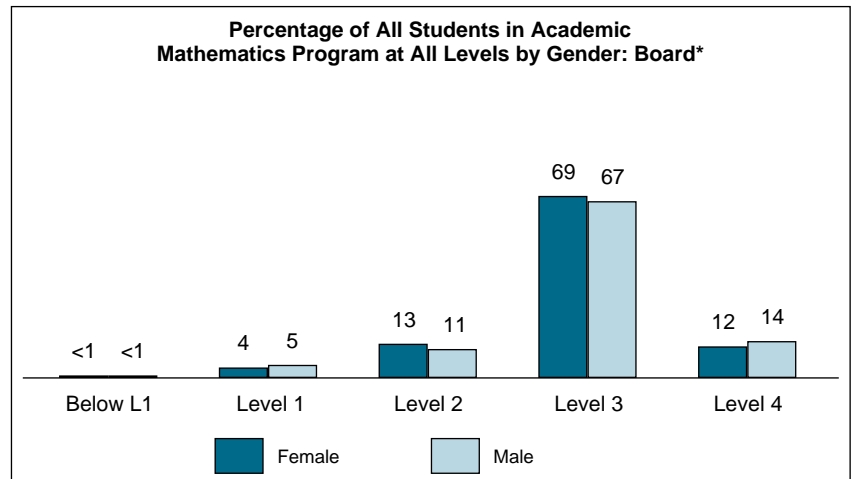
Grade 9 Academic Mathematics Program, 2006–2007

Results by Gender††

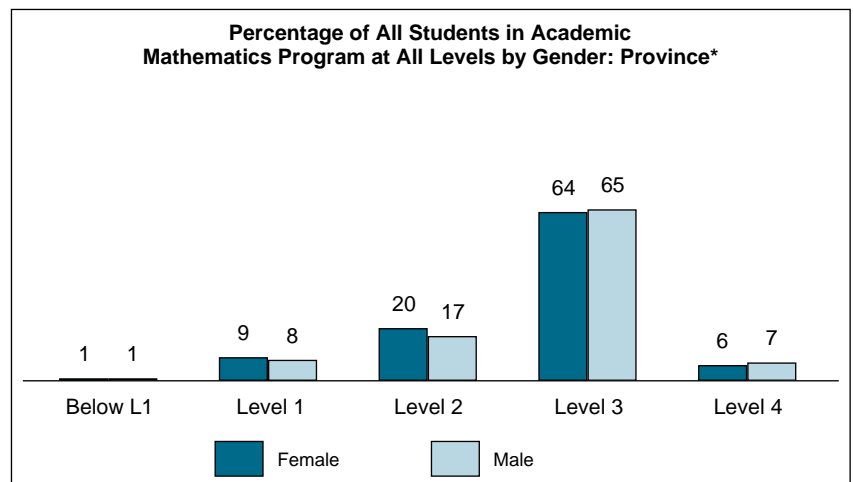
All Students, 2006–2007: School by Gender*				
Number of Students	Female 100		Male 107	
	#	%	#	%
Level 4	4	4%	8	7%
Level 3	73	73%	75	70%
Level 2	17	17%	13	12%
Level 1	4	4%	8	7%
Below Level 1	0	0%	0	0%
Participating Students	98	98%	104	97%
No Data‡	2	2%	3	3%
At or Above Provincial Standard (Levels 3 and 4) †	77%		78%	



All Students, 2006–2007: Board by Gender*				
Number of Students	Female 3 309		Male 3 247	
	#	%	#	%
Level 4	409	12%	451	14%
Level 3	2 267	69%	2 176	67%
Level 2	437	13%	356	11%
Level 1	143	4%	168	5%
Below Level 1	5	<1%	15	<1%
Participating Students	3 261	99%	3 166	98%
No Data‡	48	1%	81	2%
At or Above Provincial Standard (Levels 3 and 4) †	81%		81%	



All Students, 2006–2007: Province by Gender*				
Number of Students	Female 52 887		Male 50 122	
	#	%	#	%
Level 4	2 921	6%	3 556	7%
Level 3	33 786	64%	32 524	65%
Level 2	10 388	20%	8 591	17%
Level 1	4 695	9%	4 165	8%
Below Level 1	311	1%	489	1%
Participating Students	52 101	99%	49 325	98%
No Data‡	786	1%	797	2%
At or Above Provincial Standard (Levels 3 and 4) †	69%		72%	



* Because percentages in tables and graphs are rounded, and because graphs do not show all reporting categories, percentages may not add to 100.

† These percentages are based on the actual number of students and cannot be calculated simply by adding the rounded percentages of students at Levels 3 and 4.

†† Includes only students for whom gender data were available.

‡ Students who were coded “exempt” were placed in the “no data” category.

Results over Time, 2002–2003 to 2006–2007

Contextual Information for School: Applied Mathematics Program

This information provides a context for interpreting the school's results over the past five years.

	2002–2003	2003–2004	2004–2005	2005–2006	2006–2007
Enrolment					
Number of students in applied mathematics program	65	69	65	73	65
Number of classes with students in applied mathematics program	3	4	3	4	4
Participation in the Assessment					
Students who participated in the assessment	91%	96%	91%	89%	86%
Participating students who received one or more accommodations	n/a	29%	39%	37%	23%
Participating students who received one or more special provisions	n/a	3%	5%	3%	0%
Students who did not complete any part of the assessment (no data)*	6%	1%	6%	7%	14% ⁺⁺
Students who were exempted*	3%	3%	3%	4%	--
Gender[†] Based on number of students enrolled					
Female	38%	45%	37%	30%	49%
Male	62%	55%	63%	70%	51%
Gender not specified	n/a	0%	0%	0%	0%
Student Status[†] Based on number of students enrolled					
ESL/ELD learners*	0% ⁺	7%	6%	7%	5%
Students with special needs (excluding gifted)*	48%	29%	38%	37%	42%
Semester/Full Year Based on number of students enrolled					
First-semester course	32%	61%	38%	44%	54%
Second-semester course	68%	39%	62%	56%	46%
Full-year course	0%	0%	0%	0%	0%
Language and School Background^{††} Based on Student Questionnaire data					
Number of Respondents:	n/a	n/a	n/a	n/a	56
Speak only or mostly a language other than English at home					4%
Speak another language as often as English at home	Information not available				14%
Attended three or more elementary schools from kindergarten to Grade 8					46%

* See the Explanation of Terms.

† Demographic information pertaining to "gender" and "student status" are provided by schools and/or boards through the Student Data Collection process. Some data may be missing because they were not provided by the school.

+ The percentage of students in this group may not be comparable with those of later years as the definition for the ESL/ELD group changed in 2004 from "students enrolled in an ESL/ELD program" to "students designated as ESL/ELD learners".

++ In 2006–2007, students who were coded "exempt" were placed in the "no data" category. Since this may affect the percentage of students for whom no data is available, the results may not be comparable with those of previous years.

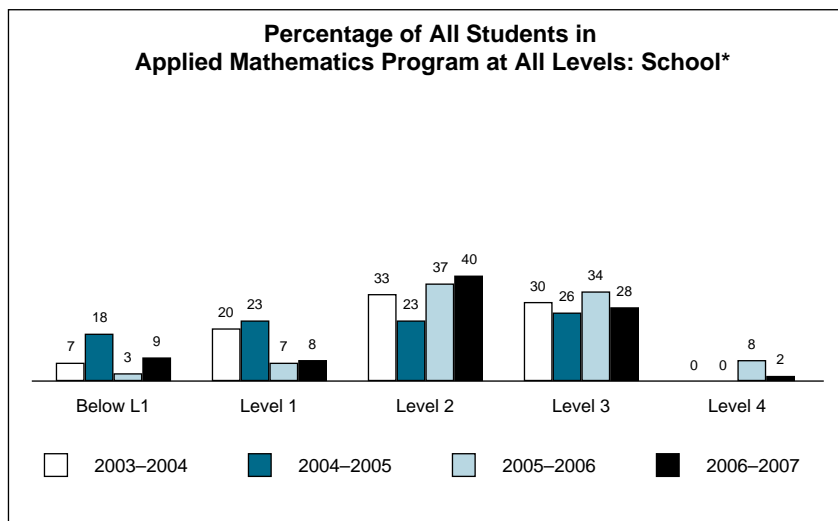
†† Demographic information pertaining to "school background" and "language" are gathered from the Student Questionnaire completed by students. Some data may be missing because they were not provided by the students.

n/a Information not available.

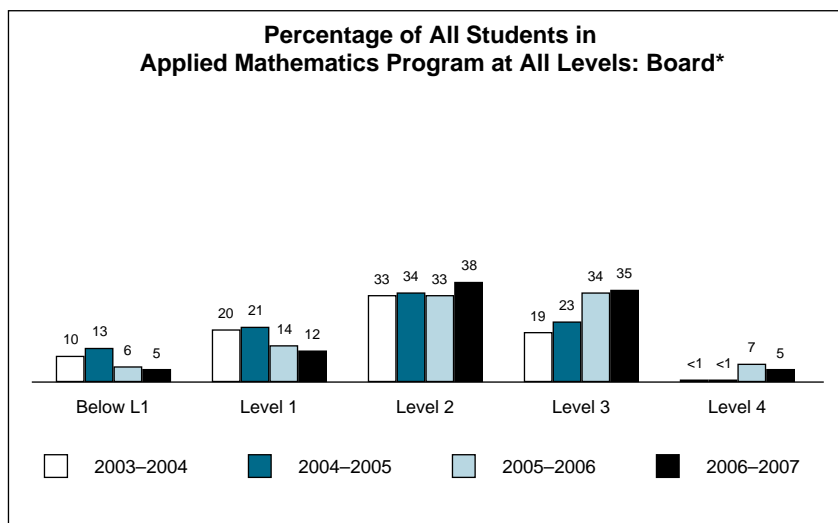
Results over Time, 2003–2004 to 2006–2007

Applied Mathematics Program for All Students**

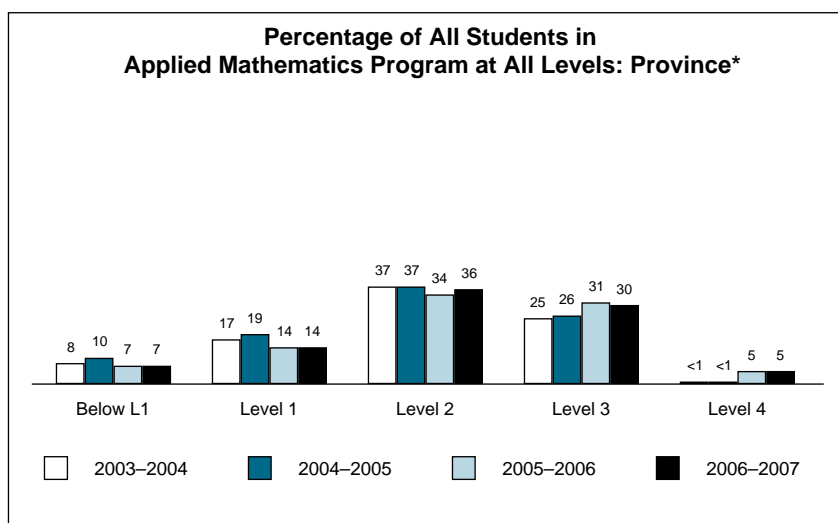
School*				
Year	'03-'04	'04-'05	'05-'06	'06-'07
<i>Number of Students</i>	69	65	73	65
Level 4	0%	0%	8%	2%
Level 3	30%	26%	34%	28%
Level 2	33%	23%	37%	40%
Level 1	20%	23%	7%	8%
Below Level 1	7%	18%	3%	9%
NEIS††	4%	---	---	---
<i>Participating Students</i>	96%	91%	89%	86%
No Data	1%	6%	7%	14%
Exempt†	3%	3%	4%	---
At or Above Provincial Standard (Levels 3 and 4)†	30%	26%	42%	29%



Board*				
Year	'03-'04	'04-'05	'05-'06	'06-'07
<i>Number of Students</i>	1 654	1 839	1 656	1 764
Level 4	<1%	<1%	7%	5%
Level 3	19%	23%	34%	35%
Level 2	33%	34%	33%	38%
Level 1	20%	21%	14%	12%
Below Level 1	10%	13%	6%	5%
NEIS††	7%	---	---	---
<i>Participating Students</i>	90%	91%	93%	94%
No Data	8%	6%	4%	6%
Exempt†	3%	3%	3%	---
At or Above Provincial Standard (Levels 3 and 4)†	20%	23%	41%	39%



Province*				
Year	'03-'04	'04-'05	'05-'06	'06-'07
<i>Number of Students</i>	50 430	51 155	50 687	49 056
Level 4	<1%	<1%	5%	5%
Level 3	25%	26%	31%	30%
Level 2	37%	37%	34%	36%
Level 1	17%	19%	14%	14%
Below Level 1	8%	10%	7%	7%
NEIS††	5%	---	---	---
<i>Participating Students</i>	92%	93%	90%	91%
No Data	6%	6%	8%	9%
Exempt†	1%	1%	2%	---
At or Above Provincial Standard (Levels 3 and 4)†	26%	27%	35%	35%



* Because percentages in tables and graphs are rounded, and because graphs do not show all reporting categories, percentages may not add to 100.

** Note that significant revisions were made to applied program courses in 2004–2005 as reflected in *The Ontario Curriculum, Grades 9 and 10: Mathematics* (revised 2005).

† These percentages are based on the actual number of students and cannot be calculated simply by adding the rounded percentages of students at Levels 3 and 4.

†† The NEIS category was eliminated in 2004–2005. See the Explanation of Terms.

‡ In 2006–2007, students who were coded “exempt” were placed in the “no data” category. Since this may affect the percentage of students for whom no data is available, the results may not be comparable with those of previous years.

Results over Time, 2002–2003 to 2006–2007

Contextual Information for School: Academic Mathematics Program

This information provides a context for interpreting the school's results over the past five years.

	2002–2003	2003–2004	2004–2005	2005–2006	2006–2007
Enrolment					
Number of students in academic mathematics program	175	164	181	195	207
Number of classes with students in academic mathematics program	7	8	7	7	7
Participation in the Assessment					
Students who participated in the assessment	99%	96%	97%	99%	98%
Participating students who received one or more accommodations	n/a	8%	5%	8%	1%
Participating students who received one or more special provisions	n/a	1%	4%	3%	<1%
Students who did not complete any part of the assessment (no data)*	1%	1%	2%	0%	2% ⁺⁺
Students who were exempted*	1%	2%	1%	1%	--
Gender[†] Based on number of students enrolled					
Female	46%	49%	54%	47%	48%
Male	54%	51%	46%	53%	52%
Gender not specified	n/a	0%	0%	0%	0%
Student Status[†] Based on number of students enrolled					
ESL/ELD learners*	1% ⁺	4%	5%	3%	2%
Students with special needs (excluding gifted)*	10%	6%	5%	8%	3%
Semester/Full Year Based on number of students enrolled					
First-semester course	47%	49%	52%	44%	44%
Second-semester course	53%	51%	48%	56%	56%
Full-year course	0%	0%	0%	0%	0%
Language and School Background^{††} Based on Student Questionnaire data					
	Number of Respondents:				201
Speak only or mostly a language other than English at home	n/a				7%
Speak another language as often as English at home	n/a				9%
Attended three or more elementary schools from kindergarten to Grade 8	n/a				33%

* See the Explanation of Terms.

† Demographic information pertaining to "gender" and "student status" are provided by schools and/or boards through the Student Data Collection process. Some data may be missing because they were not provided by the school.

+

The percentage of students in this group may not be comparable with those of later years as the definition for the ESL/ELD group changed in 2004 from "students enrolled in an ESL/ELD program" to "students designated as ESL/ELD learners".

++ In 2006–2007, students who were coded "exempt" were placed in the "no data" category. Since this may affect the percentage of students for whom no data is available, the results may not be comparable with those of previous years.

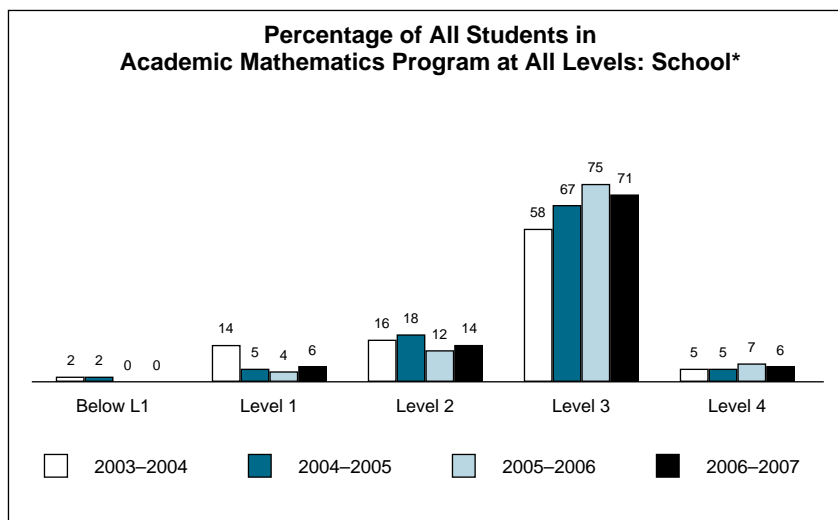
†† Demographic information pertaining to "school background" and "language" are gathered from the Student Questionnaire completed by students. Some data may be missing because they were not provided by the students.

n/a Information not available.

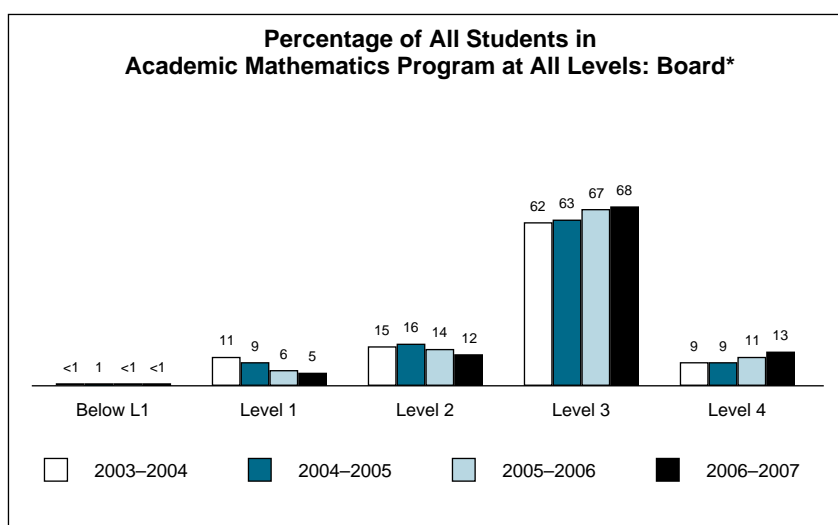
Results over Time, 2003–2004 to 2006–2007

Academic Mathematics Program for All Students

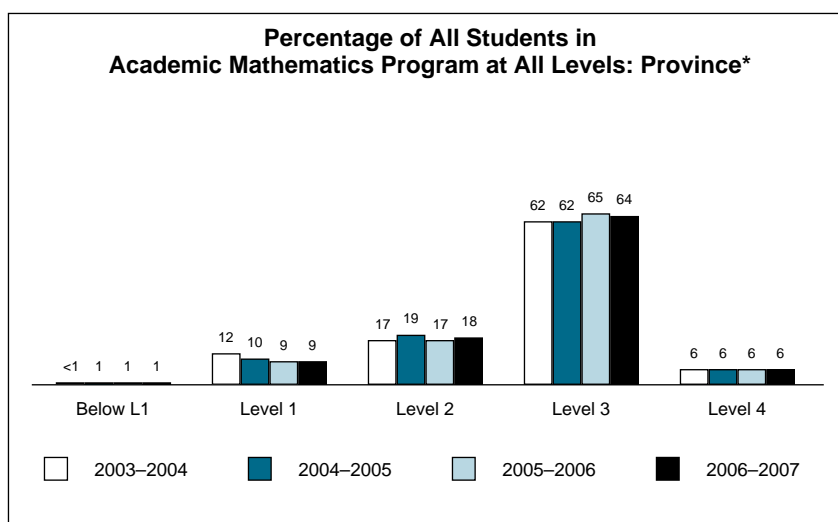
School*				
Year	'03-'04	'04-'05	'05-'06	'06-'07
<i>Number of Students</i>	164	181	195	207
Level 4	5%	5%	7%	6%
Level 3	58%	67%	75%	71%
Level 2	16%	18%	12%	14%
Level 1	14%	5%	4%	6%
Below Level 1	2%	2%	0%	0%
NEIS††	1%	---	---	---
<i>Participating Students</i>	96%	97%	99%	98%
No Data	1%	2%	0%	2%
Exempt‡	2%	1%	1%	---
At or Above Provincial Standard (Levels 3 and 4)†	63%	72%	83%	77%



Board*				
Year	'03-'04	'04-'05	'05-'06	'06-'07
<i>Number of Students</i>	6 460	6 820	6 589	6 556
Level 4	9%	9%	11%	13%
Level 3	62%	63%	67%	68%
Level 2	15%	16%	14%	12%
Level 1	11%	9%	6%	5%
Below Level 1	<1%	1%	<1%	<1%
NEIS††	1%	---	---	---
<i>Participating Students</i>	97%	98%	98%	98%
No Data	1%	1%	1%	2%
Exempt‡	2%	1%	1%	---
At or Above Provincial Standard (Levels 3 and 4)†	71%	72%	78%	81%



Province*				
Year	'03-'04	'04-'05	'05-'06	'06-'07
<i>Number of Students</i>	102 923	104 100	103 412	103 011
Level 4	6%	6%	6%	6%
Level 3	62%	62%	65%	64%
Level 2	17%	19%	17%	18%
Level 1	12%	10%	9%	9%
Below Level 1	<1%	1%	1%	1%
NEIS††	1%	---	---	---
<i>Participating Students</i>	99%	99%	98%	98%
No Data	1%	1%	1%	2%
Exempt‡	<1%	<1%	<1%	---
At or Above Provincial Standard (Levels 3 and 4)†	68%	68%	71%	71%



* Because percentages in tables and graphs are rounded, and because graphs do not show all reporting categories, percentages may not add to 100.

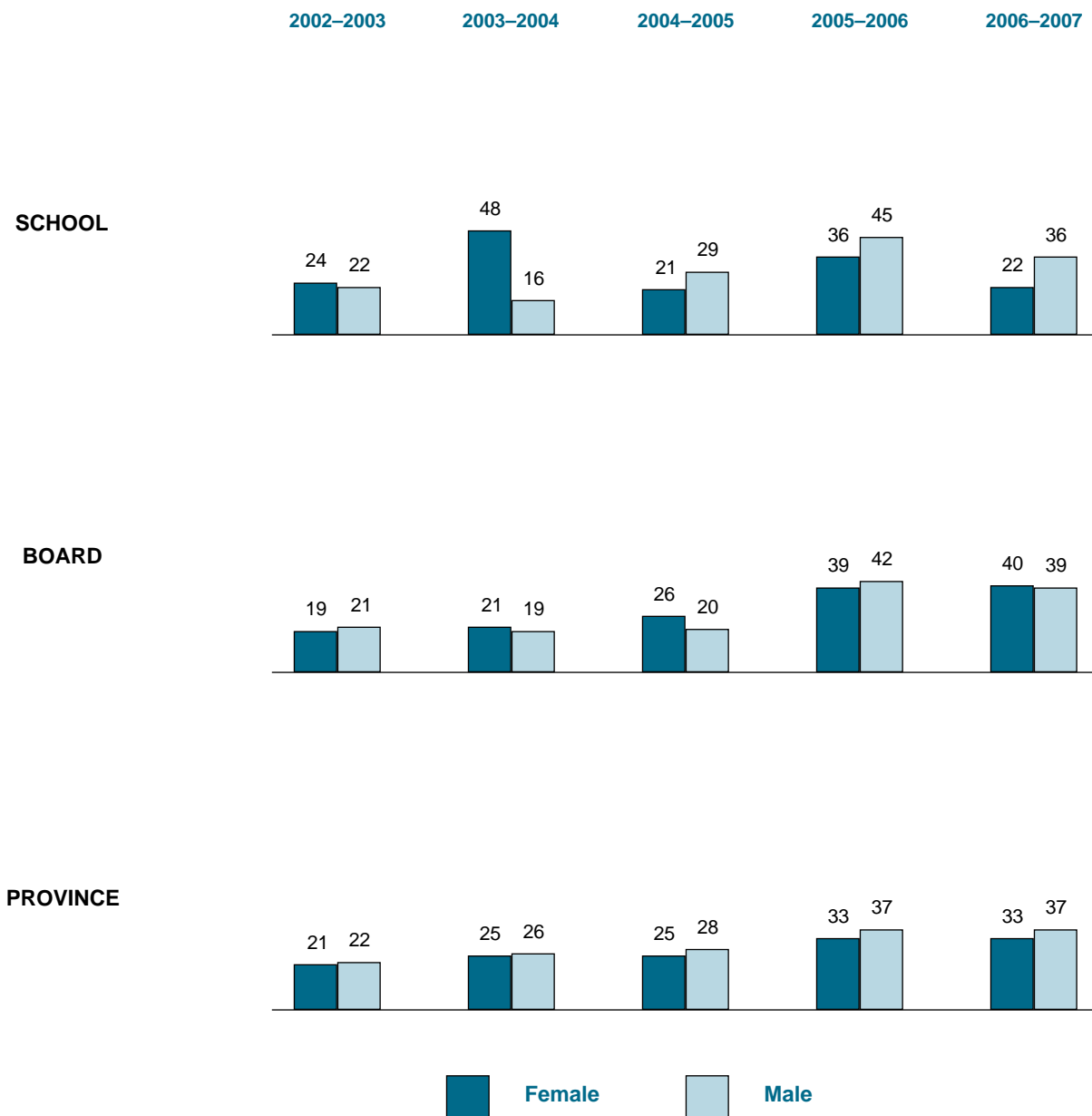
† These percentages are based on the actual number of students and cannot be calculated simply by adding the rounded percentages of students at Levels 3 and 4.

†† The NEIS category was eliminated in 2004–2005. See the Explanation of Terms.

‡ In 2006–2007, students who were coded “exempt” were placed in the “no data” category. Since this may affect the percentage of students for whom no data is available, the results may not be comparable with those of previous years.

RESULTS FOR ALL STUDENTS OVER TIME BY GENDER† AT THIS SCHOOL

**Percentage of Students At or Above the Provincial Standard (Levels 3 and 4):
GRADE 9 APPLIED MATHEMATICS***



Total Number of Students in Applied Mathematics Program†

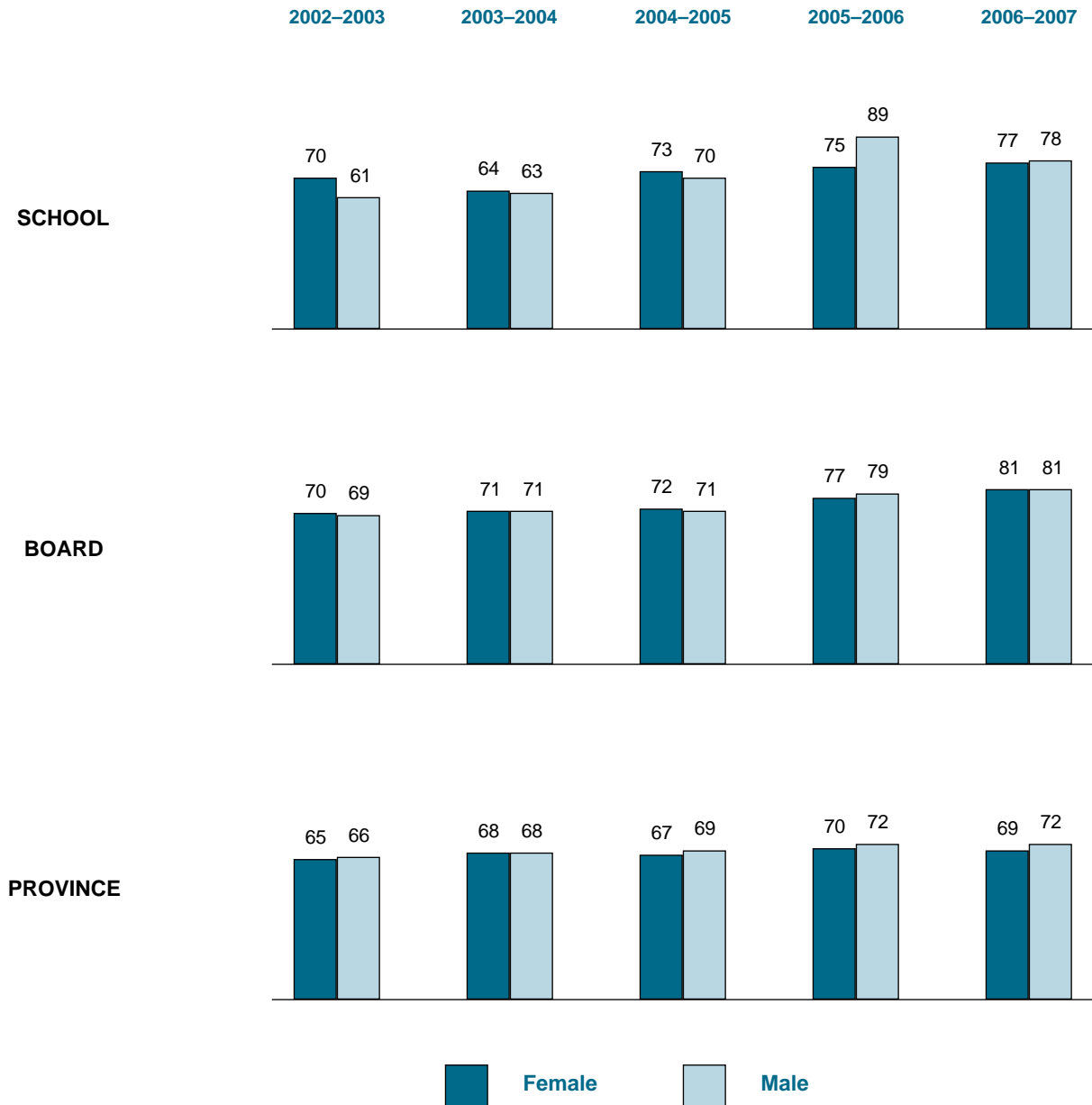
	2002-2003		2003-2004		2004-2005		2005-2006		2006-2007	
	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
School	25	40	31	38	24	41	22	51	32	33
Board	692	935	721	901	810	986	735	921	759	1 005
Province	21 387	26 625	22 292	27 223	22 371	27 413	22 884	27 802	22 126	26 926

† Includes only students for whom gender data were available.

* Note that significant revisions were made to applied program courses in 2004-2005 as reflected in *The Ontario Curriculum, Grades 9 and 10: Mathematics* (revised 2005).

RESULTS FOR ALL STUDENTS OVER TIME BY GENDER† AT THIS SCHOOL

**Percentage of Students At or Above the Provincial Standard (Levels 3 and 4):
GRADE 9 ACADEMIC MATHEMATICS**



Total Number of Students in Academic Mathematics Program†

	2002-2003		2003-2004		2004-2005		2005-2006		2006-2007	
	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
School	80	95	81	83	97	84	92	103	100	107
Board	3 084	3 138	3 200	3 242	3 408	3 379	3 284	3 304	3 309	3 247
Province	51 352	48 750	52 104	49 916	52 030	50 129	53 183	50 228	52 887	50 122

† Includes only students for whom gender data were available.

Grade 9 Assessment of Mathematics, 2006–2007, Applied Program

STUDENT QUESTIONNAIRE RESULTS FOR THIS SCHOOL (# = 56)			
Questionnaire Item	Percentage of Students*		
1. Degree to which students “agree” or “disagree” with each of the following statements:			<i>Number of Students Who Answered “Strongly Agree or Agree”</i>
I like mathematics.		12	
I am good at mathematics.		15	
I understand most of the mathematics I am taught.		38	
The mathematics I learn now is very useful for everyday life.		18	
I need to keep taking mathematics for the kind of job I want after I leave school.		20	
Mathematics is boring.		26	
Mathematics is an easy subject.		10	
2. How “easy” or “hard” students find mathematics questions that deal with the following:			<i>Number of Students Who Answered “Very Easy or Easy”</i>
number sense (e.g., operations with integers, rational numbers, exponents)		28	
algebra (e.g., solving equations, simplifying expressions with polynomials)		29	
linear relations (e.g., scatter plots, lines of best fit)		30	
measurement (e.g., perimeter, surface area, volume)		32	
geometry (e.g., angles, quadrilaterals)		18	

* Percentages may not add to 100, due to a lack of or ambiguous responses. Where there is no number in a box, the percentage of responses is smaller than 4.

Grade 9 Assessment of Mathematics, 2006–2007, Applied Program

STUDENT QUESTIONNAIRE RESULTS FOR THIS SCHOOL (# = 56)		
Questionnaire Item	Percentage of Students*	
3. Students have the following <i>at home</i> to use for mathematics school work:		Number of Students Who Answered "Yes"
a computer		21
a scientific calculator		46
a graphing calculator		6
<div style="display: flex; justify-content: center; gap: 20px;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div>		
4. Amount of time students <i>usually</i> spend on mathematics homework (in or out of school) on any given day:		Number of Students
more than 45 minutes		4
between 31 and 45 minutes		18
30 minutes or less		22
mathematics homework not usually assigned		12
5. How often students complete all of their mathematics homework:		Number of Students
never or seldom		10
sometimes		18
often or always		27
6. How often students have been absent from their Grade 9 mathematics class this year:		Number of Students
never		8
one to four times		35
five to nine times		6
10 or more times		7

* Percentages may not add to 100, due to a lack of or ambiguous responses. Where there is no number in a box, the percentage of responses is smaller than 4.

Grade 9 Assessment of Mathematics, 2006–2007, Applied Program

STUDENT QUESTIONNAIRE RESULTS FOR THIS SCHOOL (# = 56)		
Questionnaire Item	Percentage of Students*	
7. How often students have been late for their Grade 9 mathematics class this year:		Number of Students
never		20
one to four times		21
five to nine times		9
10 or more times		6
8. Language(s) students speak at home:		Number of Students
only or mostly English		46
another language (or languages) as often as English		8
only or mostly another language (or other languages)		2
9. Number of elementary schools (kindergarten to Grade 8) attended:		Number of Students
one or two schools		29
three schools		10
four schools		6
five schools or more		10

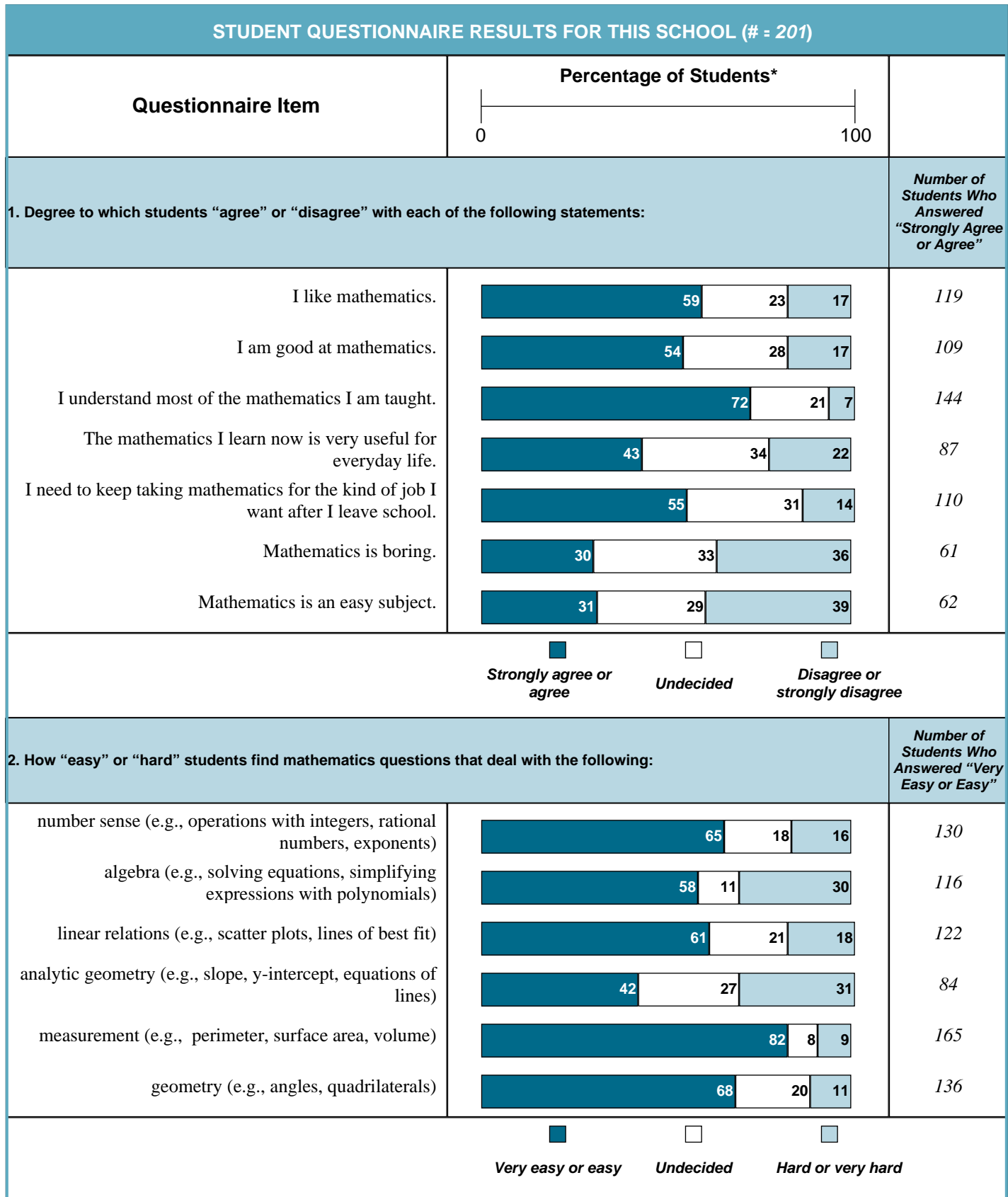
* Percentages may not add to 100, due to a lack of or ambiguous responses.

Grade 9 Assessment of Mathematics, 2006–2007, Applied Program

STUDENT QUESTIONNAIRE RESULTS FOR SCHOOL, BOARD AND PROVINCE (all students, female, male)	School			Board			Province		
	All Students (# = 56)	Female* (# = 29)	Male* (# = 27)	All Students (# = 1 602)	Female* (# = 706)	Male* (# = 896)	All Students (# = 42 804)	Female* (# = 19 453)	Male* (# = 23 351)
Percentage of students indicating that they “strongly agree” or “agree” with each of the following statements:									
I like mathematics.	21%	17%	26%	34%	25%	41%	34%	28%	40%
I am good at mathematics.	27%	14%	41%	34%	27%	39%	34%	25%	41%
I understand most of the mathematics I am taught.	68%	55%	81%	64%	59%	68%	61%	57%	65%
The mathematics I learn now is very useful for everyday life.	32%	38%	26%	42%	39%	44%	40%	36%	42%
I need to keep taking mathematics for the kind of job I want after I leave school.	36%	48%	22%	42%	37%	47%	43%	38%	46%
Mathematics is boring.	46%	41%	52%	42%	42%	41%	43%	44%	41%
Mathematics is an easy subject.	18%	10%	26%	21%	16%	25%	22%	16%	26%
Percentage of students indicating that the following are “very easy” or “easy”:									
number sense	50%	45%	56%	51%	47%	54%	46%	43%	49%
algebra	52%	55%	48%	45%	46%	45%	42%	43%	42%
linear relations	54%	52%	56%	59%	59%	58%	61%	59%	61%
measurement	57%	45%	70%	63%	60%	65%	64%	63%	65%
geometry	32%	24%	41%	43%	37%	47%	42%	37%	46%
Percentage of students indicating they have the following at home to use for mathematics school work:									
a computer	38%	34%	41%	43%	42%	43%	42%	43%	42%
a scientific calculator	82%	93%	70%	81%	86%	77%	72%	76%	70%
a graphing calculator	11%	10%	11%	9%	7%	10%	8%	7%	9%
Percentage of students indicating they usually spend the following amounts of time on mathematics homework (in or out of school) on any given day:									
30 minutes or less	39%	38%	41%	47%	48%	45%	46%	45%	47%
more than 30 minutes	39%	34%	44%	39%	39%	39%	35%	38%	31%
mathematics homework not usually assigned	21%	28%	15%	13%	11%	15%	18%	15%	19%
Percentage of students indicating they complete all of their mathematics homework									
never or seldom.	18%	10%	26%	16%	12%	18%	16%	13%	18%
sometimes, often or always.	80%	90%	70%	83%	86%	80%	82%	85%	80%
Percentage of students indicating they have been absent from their mathematics class this year									
four times or less.	77%	72%	81%	68%	66%	70%	59%	57%	61%
five times or more.	23%	28%	19%	30%	33%	28%	39%	42%	38%
Percentage of students indicating how often they have been late for their mathematics class this year									
four times or less.	73%	72%	74%	69%	68%	70%	70%	71%	69%
five times or more.	27%	28%	26%	30%	31%	29%	28%	27%	29%
Percentage of students indicating that they speak the following language(s) at home:									
only or mostly English	82%	83%	81%	75%	75%	74%	82%	82%	81%
another language (or languages) as often as English	14%	17%	11%	16%	16%	17%	10%	11%	10%
only or mostly another language (or other languages)	4%	0%	7%	8%	7%	8%	6%	5%	7%
Percentage of students indicating that from kindergarten to Grade 8 they attended									
three or more elementary schools.	46%	52%	41%	43%	45%	42%	40%	41%	40%

* Includes only students for whom gender data were available.

Grade 9 Assessment of Mathematics, 2006–2007, Academic Program



* Percentages may not add to 100, due to a lack of or ambiguous responses. Where there is no number in a box, the percentage of responses is smaller than 4.

Grade 9 Assessment of Mathematics, 2006–2007, Academic Program

STUDENT QUESTIONNAIRE RESULTS FOR THIS SCHOOL (# - 201)		
Questionnaire Item	Percentage of Students*	
3. Students have the following <i>at home</i> to use for mathematics school work:		Number of Students Who Answered "Yes"
a computer		77
a scientific calculator		167
a graphing calculator		8
4. Amount of time students <i>usually</i> spend on mathematics homework (in or out of school) on any given day:		Number of Students
more than 45 minutes		19
between 31 and 45 minutes		76
30 minutes or less		99
mathematics homework not usually assigned		5
5. How often students complete all of their mathematics homework:		Number of Students
never or seldom		31
sometimes		53
often or always		115
6. How often students have been absent from their Grade 9 mathematics class this year:		Number of Students
never		39
one to four times		130
five to nine times		23
10 or more times		6

* Percentages may not add to 100, due to a lack of or ambiguous responses. Where there is no number in a box, the percentage of responses is smaller than 4.

Grade 9 Assessment of Mathematics, 2006–2007, Academic Program

STUDENT QUESTIONNAIRE RESULTS FOR THIS SCHOOL (# = 201)		
Questionnaire Item	Percentage of Students*	
7. How often students have been late for their Grade 9 mathematics class this year:		Number of Students
never	43	86
one to four times	40	80
five to nine times	12	24
10 or more times	4	9
8. Language(s) students speak at home:		Number of Students
only or mostly English	82	164
another language (or languages) as often as English	9	19
only or mostly another language (or other languages)	7	15
9. Number of elementary schools (kindergarten to Grade 8) attended:		Number of Students
one or two schools	66	133
three schools	21	43
four schools	6	13
five schools or more	5	10

* Percentages may not add to 100, due to a lack of or ambiguous responses.

Grade 9 Assessment of Mathematics, 2006–2007, Academic Program

STUDENT QUESTIONNAIRE RESULTS FOR SCHOOL, BOARD AND PROVINCE (all students, female, male)	School			Board			Province		
	All Students (# = 201)	Female* (# = 98)	Male* (# = 103)	All Students (# = 6 292)	Female* (# = 3 197)	Male* (# = 3 095)	All Students (# = 98 764)	Female* (# = 50 835)	Male* (# = 47 929)
Percentage of students indicating that they “strongly agree” or “agree” with each of the following statements:									
I like mathematics.	59%	50%	68%	55%	50%	61%	52%	47%	57%
I am good at mathematics.	54%	46%	62%	51%	44%	57%	50%	43%	57%
I understand most of the mathematics I am taught.	72%	65%	78%	74%	71%	77%	71%	67%	74%
The mathematics I learn now is very useful for everyday life.	43%	43%	44%	39%	36%	42%	36%	33%	39%
I need to keep taking mathematics for the kind of job I want after I leave school.	55%	51%	58%	57%	53%	61%	55%	53%	58%
Mathematics is boring.	30%	27%	34%	28%	28%	29%	31%	31%	32%
Mathematics is an easy subject.	31%	19%	42%	29%	23%	34%	27%	22%	32%
Percentage of students indicating that the following are “very easy” or “easy”:									
number sense	65%	59%	70%	69%	66%	73%	67%	64%	70%
algebra	58%	58%	57%	64%	65%	63%	60%	61%	59%
linear relations	61%	59%	62%	53%	49%	56%	48%	45%	51%
analytic geometry	42%	40%	44%	47%	43%	50%	41%	38%	44%
measurement	82%	79%	85%	76%	73%	78%	75%	73%	77%
geometry	68%	63%	72%	64%	62%	67%	63%	60%	67%
Percentage of students indicating they have the following at home to use for mathematics school work:									
a computer	38%	41%	36%	54%	56%	53%	52%	54%	51%
a scientific calculator	83%	83%	83%	90%	91%	88%	86%	88%	83%
a graphing calculator	4%	1%	7%	7%	6%	9%	9%	8%	9%
Percentage of students indicating they usually spend the following amounts of time on mathematics homework (in or out of school) on any given day:									
30 minutes or less	49%	43%	55%	38%	32%	45%	38%	32%	44%
more than 30 minutes	47%	56%	39%	59%	67%	52%	58%	65%	51%
mathematics homework not usually assigned	2%	1%	4%	2%	1%	3%	3%	2%	4%
Percentage of students indicating they complete all of their mathematics homework									
never or seldom.	15%	10%	20%	12%	7%	16%	12%	9%	15%
sometimes, often or always.	84%	90%	78%	87%	92%	83%	87%	90%	84%
Percentage of students indicating they have been absent from their mathematics class this year									
four times or less.	84%	85%	83%	81%	81%	81%	73%	72%	74%
five times or more.	14%	15%	14%	18%	18%	17%	25%	26%	24%
Percentage of students indicating how often they have been late for their mathematics class this year									
four times or less.	83%	84%	82%	84%	86%	83%	84%	86%	83%
five times or more.	16%	16%	17%	15%	13%	16%	14%	13%	15%
Percentage of students indicating that they speak the following language(s) at home:									
only or mostly English	82%	87%	77%	62%	63%	61%	77%	77%	76%
another language (or languages) as often as English	9%	8%	11%	22%	23%	21%	13%	14%	13%
only or mostly another language (or other languages)	7%	5%	10%	15%	13%	17%	9%	8%	10%
Percentage of students indicating that from kindergarten to Grade 8 they attended									
three or more elementary schools.	33%	34%	32%	41%	41%	42%	35%	35%	35%

* Includes only students for whom gender data were available.

EXPLANATION OF TERMS

All Students	Results are reported for all students in the program.
Participating Students	Results are reported only for those students who took part in the assessment (excludes the "no data" category).
Provincial Standard	The Ministry of Education, in <i>The Ontario Curriculum, Grades 9 and 10: Mathematics</i> , has set Level 3 as the provincial standard.
Level 4 (80-100%)	The student has demonstrated a very high to outstanding level of achievement. Achievement is <i>above</i> the provincial standard.
Level 3 (70-79%)	The student has demonstrated a high level of achievement. Achievement is <i>at</i> the provincial standard.
Level 2 (60-69%)	The student has demonstrated some of the required knowledge and skills. Achievement is <i>below, but approaching</i> , the provincial standard.
Level 1 (50-59%)	The student has demonstrated a passable level of achievement. Achievement is <i>below</i> the provincial standard.
Below Level 1	The student has not demonstrated sufficient achievement of curriculum expectations (below 50%).
NEIS	"Not Enough Information to Score" is a category that was eliminated in 2004–2005. Students now are assigned a level based on the work they submitted, with unanswered questions treated as incorrect.
No Data	Students who did not complete any part of the assessment due to absence or for medical or other reasons.
Exempt	In 2006–2007, students who were coded "exempt" were placed in the "no data" category.
ESL/ELD	English as a second language (ESL)/English literacy development (ELD) are students identified by the school as ESL/ELD learners.
Students with Special Needs	Students formally identified by an Identification, Placement and Review Committee and/or students who have an Individual Education Plan. Students identified as gifted are not included.
N/R	"Not reported" indicates that the number of students participating (fewer than 15 in a group) or responding to the Student Questionnaire (fewer than six in a group) is so small that identification of individual student results might be possible; therefore, results are not reported.
N/D	Used in tables and graphs to indicate that there were no students in the grade or program for the years specified.