



School Board Report



Grade 9 Assessment of Mathematics, 2013–2014

Board: London District Catholic School Board (67032)

On behalf of EQAO, I am pleased to provide you with the results of the 2013–2014 Grade 9 Assessment of Mathematics.

This report includes the 2014 results as well as results for previous years, so you can track progress over time. You'll also find demographic and attitudinal information, which provides context for interpreting the achievement results.

By assessing all students in our education system at key stages in their schooling, EQAO is able to provide reliable and objective data at the individual student, school and board levels. EQAO results alongside board and classroom assessment data have proven effective for monitoring progress and allowing school communities to make evidence-based decisions in their planning.

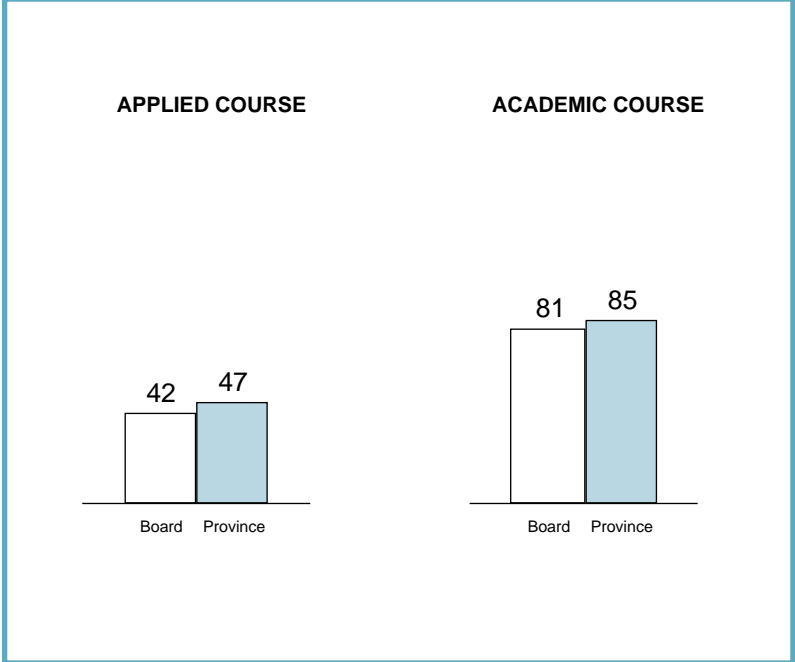
At EQAO, we strongly believe that reliable evidence empowers and guides the judgment and actions of professional educators and school communities. We are pleased to continue our partnership with you as we all work toward helping students reach their full potential. I hope you will find this report to be a rich source of information as you turn knowledge into action for the benefit of your students and community.

Sincerely,

Bruce Rodrigues
 Chief Executive Officer
 Education Quality and Accountability Office

WHERE TO FIND . . .	PAGE	
	Applied	Academic
Percentages of all students at or above the provincial standard		
• 2013–2014.....	1	1
• Over time.....	2	2
Tips for using this report.....	3	3
Contextual information: 2013–2014.....	4	7
Results for groups of students: 2013–2014		
• All students.....	5	8
• Participating students.....	5	8
• Students by gender.....	6	9
Contextual information: Over time.....	10	12
Results for all students: Over time.....	11	13
Results for all students: Over time by gender.....	14	15
Student questionnaire results.....	16–24	25–33
Explanation of terms.....	34	34

PERCENTAGE OF ALL STUDENTS AT OR ABOVE THE PROVINCIAL STANDARD (LEVELS 3 AND 4), 2013–2014



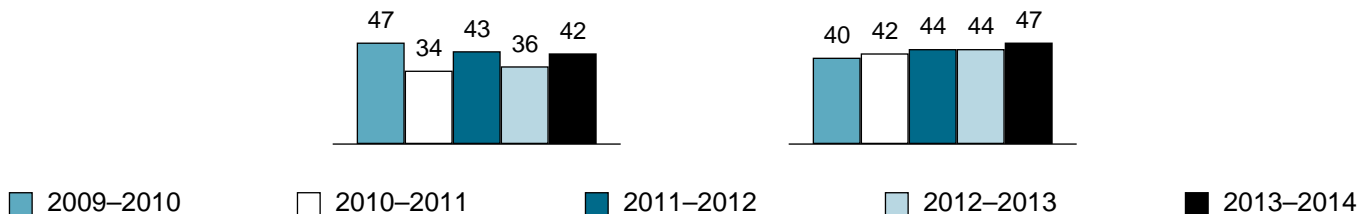
Grade 9 Assessment of Mathematics, 2013–2014

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

APPLIED MATHEMATICS

Board

Province

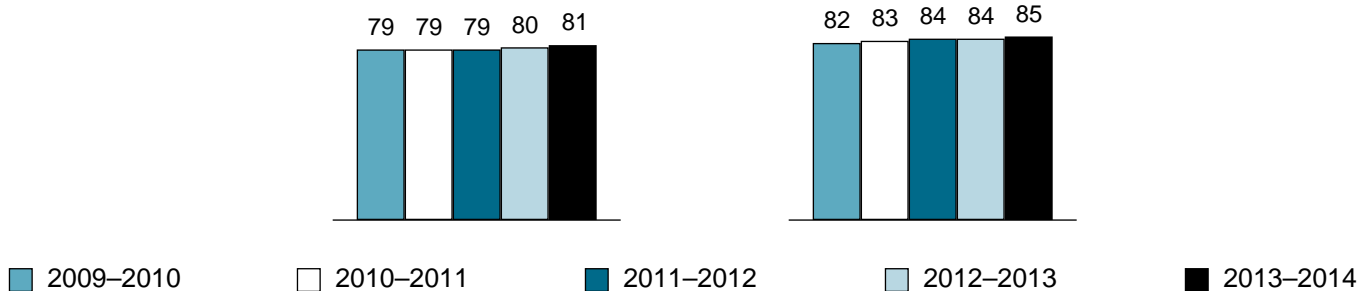


	Total Number of Students				
	<u>2009–2010</u>	<u>2010–2011</u>	<u>2011–2012</u>	<u>2012–2013</u>	<u>2013–2014</u>
Board	604	592	512	438	425
Province	47 566	44 095	41 799	39 881	38 181

ACADEMIC MATHEMATICS

Board

Province



	Total Number of Students				
	<u>2009–2010</u>	<u>2010–2011</u>	<u>2011–2012</u>	<u>2012–2013</u>	<u>2013–2014</u>
Board	1 390	1 274	1 184	1 114	1 189
Province	101 268	99 278	97 741	97 158	95 914

TIPS

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

Note: Students in locally developed courses 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. Beginning in 2012-2013, results are not reported publicly for schools where fewer than 10 students participated because it might be possible to identify individual students. Prior to 2012-2013, results were not reported publicly for schools where fewer than 15 students participated.

ABOUT THIS SCHOOL OR BOARD 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 of the current and previous administrations 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 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?
 - What influence might students' attitudes have on student performance (refer to the questionnaire results)?
- ◆ Speak to the school or board staff 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 Assessment of Mathematics, 2013–2014, Applied Course

Contextual Information

This information provides a context for interpreting the board's applied mathematics course results.

	Board		Province	
Enrolment				
Number of students in applied mathematics course	425		38 181	
Number of classes with students in applied mathematics course	20		2 496	
Number of schools with applied mathematics classes	9		705	
Number Percent Number Percent				
Participation in the Assessment				
Students who participated in the assessment	422	99%	36 758	96%
Participating students who received one or more accommodations*	86	20%	11 573	31%
Participating students who received one or more special provisions*	13	3%	1 841	5%
Students who did not complete any part of the assessment (no data)*	3	1%	1 423	4%
Gender[†] Based on number of students enrolled				
Female	203	48%	16 662	44%
Male	222	52%	21 519	56%
Gender not specified	0	0%	0	0%
Student Status[†] Based on number of students enrolled				
English language learners*	13	3%	3 115	8%
Students with special education needs (excluding gifted)*	103	24%	14 241	37%
Semester/Full Year Based on number of students enrolled				
First-semester course	214	50%	17 324	45%
Second-semester course	211	50%	17 852	47%
Full-year course	0	0%	3 005	8%
Language and School Background^{††}				
<i>Based on Student Questionnaire data</i>				
Number of Respondents:		352	31 979	
Speak only or mostly a language other than English at home	28	8%	2 043	6%
Speak another language as often as English at home	47	13%	4 009	13%
Attended three or more elementary schools from kindergarten to Grade 8	118	34%	13 010	41%

* See the Explanation of Terms.

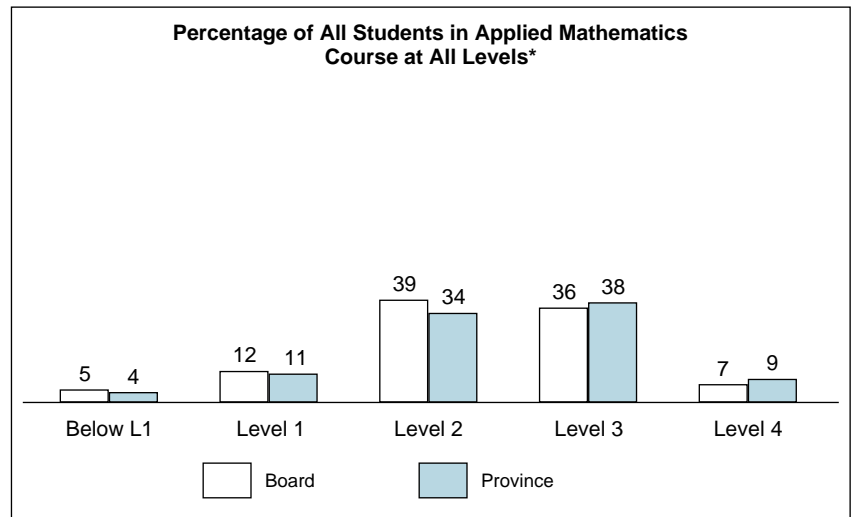
† Contextual data pertaining to "gender" and "student status" are provided by schools and/or boards through the Student Data Collection process. Some data may be missing because they were not provided by the school or the board.

†† Contextual data 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 Assessment of Mathematics, 2013–2014, Applied Course

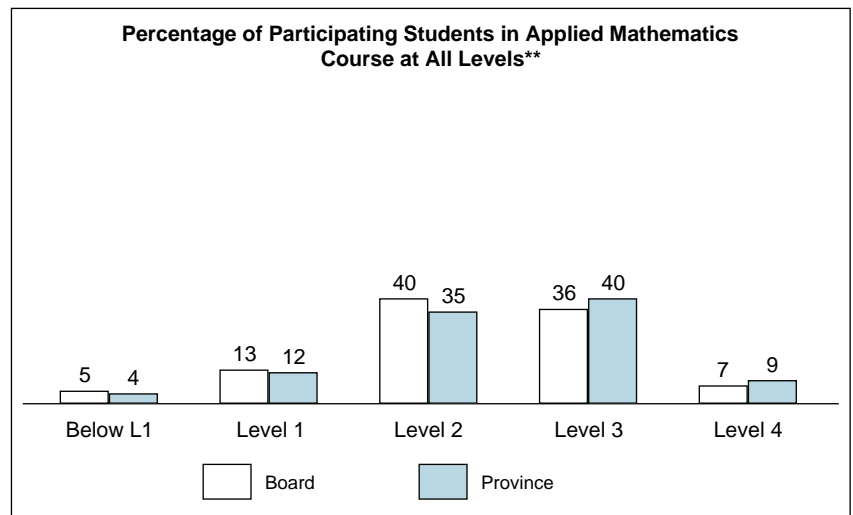
Results for All Students

All Students*			
Number of Students	Board 425		Province 38 181
	#	%	%
Level 4	28	7%	9%
Level 3	152	36%	38%
Level 2	167	39%	34%
Level 1	53	12%	11%
Below Level 1	22	5%	4%
Participating Students	422	99%	96%
No Data	3	1%	4%
At or Above Provincial Standard (Levels 3 and 4) †		42%	47%



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

Participating Students**			
Number of Students	Board 422		Province 36 758
	#	%	%
Level 4	28	7%	9%
Level 3	152	36%	40%
Level 2	167	40%	35%
Level 1	53	13%	12%
Below Level 1	22	5%	4%
At or Above Provincial Standard (Levels 3 and 4) †		43%	49%



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

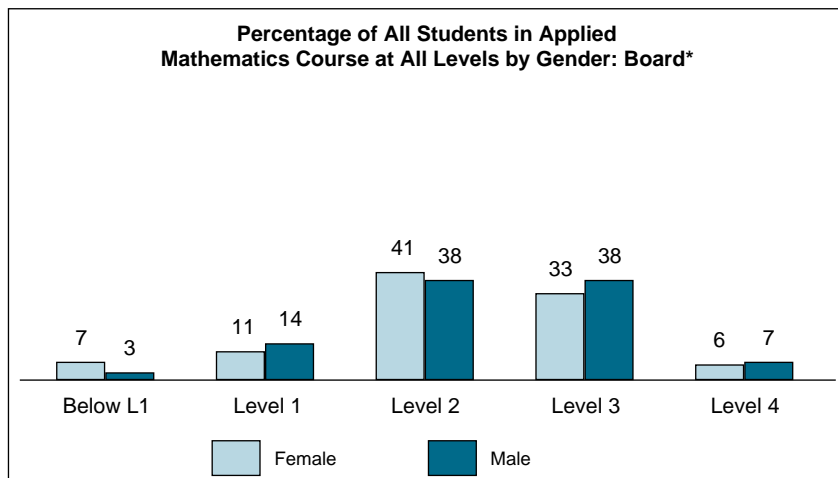
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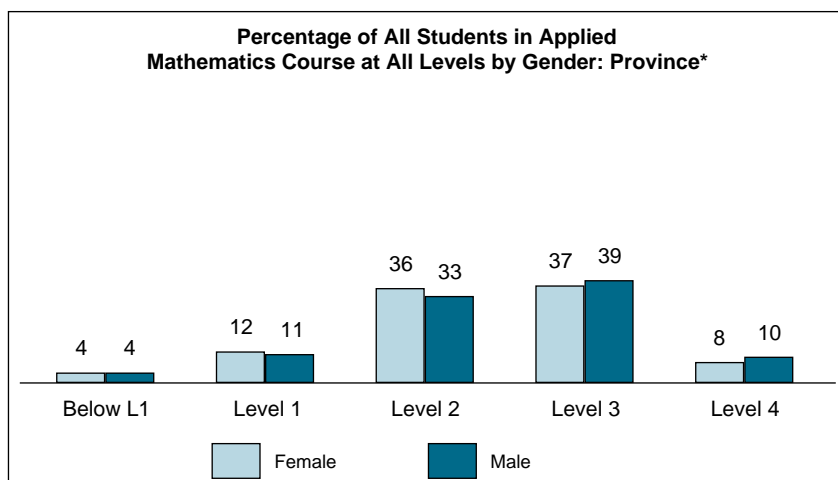
Grade 9 Assessment of Mathematics, 2013–2014, Applied Course

Results by Gender^{††}

All Students: Board by Gender*				
Number of Students	Female 203		Male 222	
	#	%	#	%
Level 4	13	6%	15	7%
Level 3	67	33%	85	38%
Level 2	83	41%	84	38%
Level 1	23	11%	30	14%
Below Level 1	15	7%	7	3%
Participating Students	201	99%	221	100%
No Data	2	1%	1	<1%
At or Above Provincial Standard (Levels 3 and 4)[†]		39%	45%	



All Students: Province by Gender*				
Number of Students	Female 16 662		Male 21 519	
	#	%	#	%
Level 4	1 325	8%	2 078	10%
Level 3	6 145	37%	8 463	39%
Level 2	5 962	36%	7 002	33%
Level 1	1 948	12%	2 292	11%
Below Level 1	652	4%	891	4%
Participating Students	16 032	96%	20 726	96%
No Data	630	4%	793	4%
At or Above Provincial Standard (Levels 3 and 4)[†]		45%	49%	



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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.

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

Grade 9 Assessment of Mathematics, 2013–2014, Academic Course

Contextual Information

This information provides a context for interpreting the board's academic mathematics course results.

	Board		Province	
Enrolment				
Number of students in academic mathematics course	1 189		95 914	
Number of classes with students in academic mathematics course	43		4 073	
Number of schools with academic mathematics classes	9		688	
Number Percent Number Percent				
Participation in the Assessment				
Students who participated in the assessment	1 183	99%	95 178	99%
Participating students who received one or more accommodations*	38	3%	5 146	5%
Participating students who received one or more special provisions*	15	1%	3 468	4%
Students who did not complete any part of the assessment (no data)*	6	1%	736	1%
Gender[†] Based on number of students enrolled				
Female	599	50%	49 157	51%
Male	590	50%	46 757	49%
Gender not specified	0	0%	0	0%
Student Status[†] Based on number of students enrolled				
English language learners*	15	1%	6 137	6%
Students with special education needs (excluding gifted)*	50	4%	5 969	6%
Semester/Full Year Based on number of students enrolled				
First-semester course	599	50%	42 784	45%
Second-semester course	590	50%	42 510	44%
Full-year course	0	0%	10 620	11%
Language and School Background^{††} Based on Student Questionnaire data				
	Number of Respondents:		1 041	87 038
Speak only or mostly a language other than English at home	77	7%	7 440	9%
Speak another language as often as English at home	91	9%	13 677	16%
Attended three or more elementary schools from kindergarten to Grade 8	273	26%	31 324	36%

* See the Explanation of Terms.

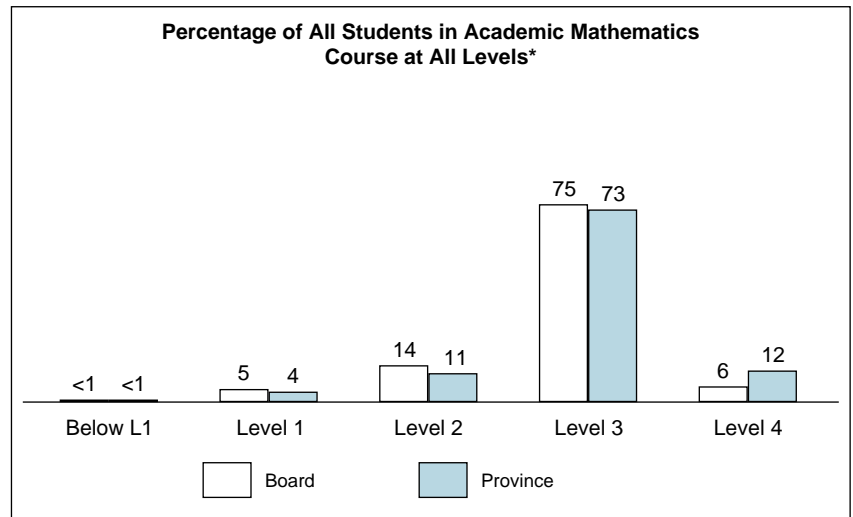
[†] Contextual data pertaining to "gender" and "student status" are provided by schools and/or boards through the Student Data Collection process. Some data may be missing because they were not provided by the school or the board.

^{††} Contextual data 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 Assessment of Mathematics, 2013–2014, Academic Course

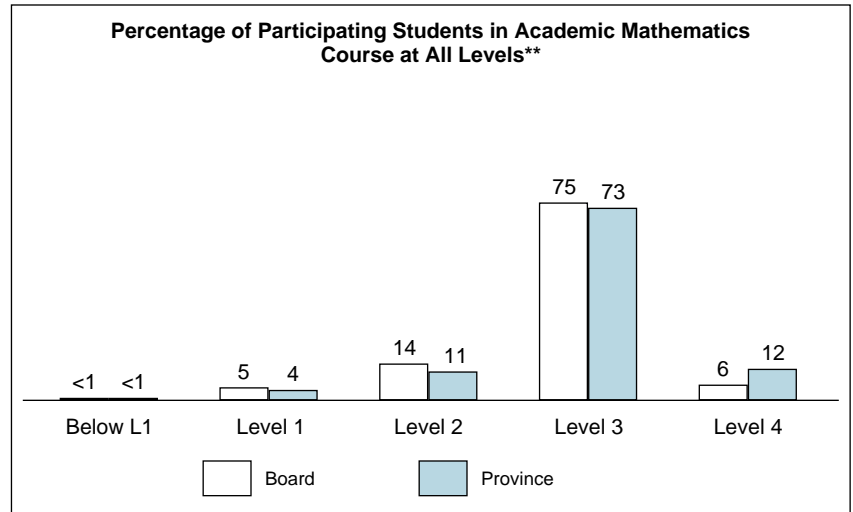
Results for All Students

All Students*			
Number of Students	Board 1 189		Province 95 914
	#	%	%
Level 4	71	6%	12%
Level 3	889	75%	73%
Level 2	161	14%	11%
Level 1	60	5%	4%
Below Level 1	2	<1%	<1%
Participating Students	1 183	99%	99%
No Data	6	1%	1%
At or Above Provincial Standard (Levels 3 and 4) †		81%	85%



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

Participating Students**			
Number of Students	Board 1 183		Province 95 178
	#	%	%
Level 4	71	6%	12%
Level 3	889	75%	73%
Level 2	161	14%	11%
Level 1	60	5%	4%
Below Level 1	2	<1%	<1%
At or Above Provincial Standard (Levels 3 and 4) †		81%	85%



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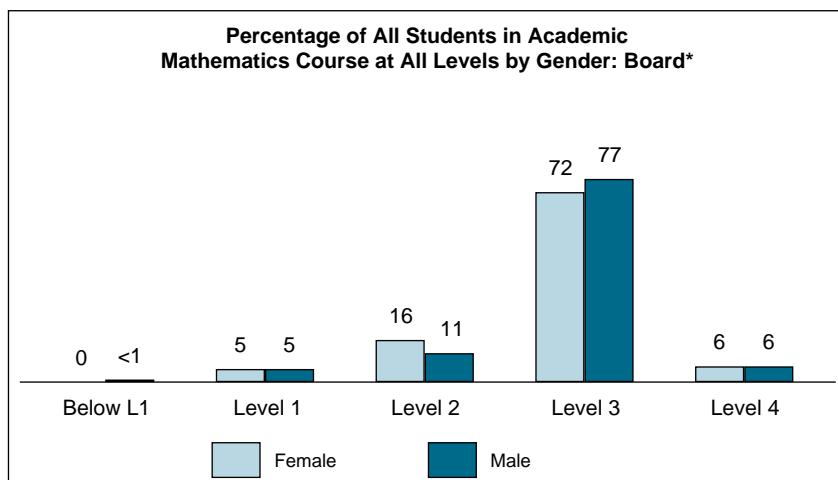
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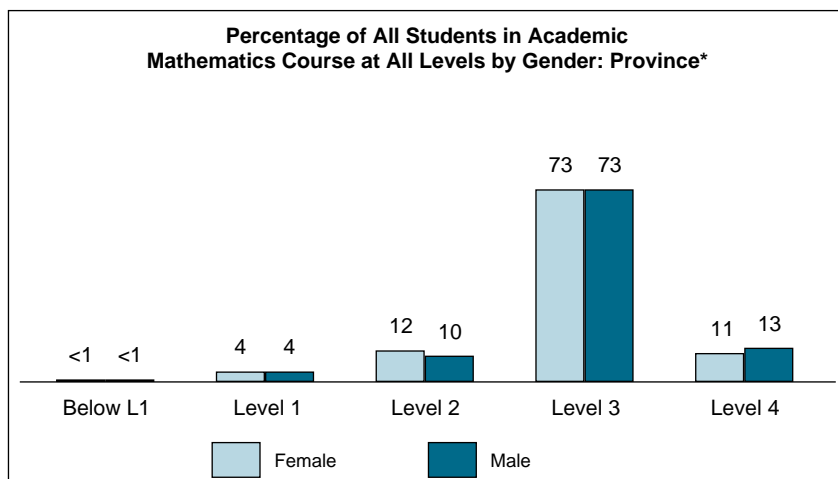
Grade 9 Assessment of Mathematics, 2013–2014, Academic Course

Results by Gender^{††}

All Students: Board by Gender*				
Number of Students	Female 599		Male 590	
	#	%	#	%
Level 4	35	6%	36	6%
Level 3	433	72%	456	77%
Level 2	98	16%	63	11%
Level 1	29	5%	31	5%
Below Level 1	0	0%	2	<1%
Participating Students	595	99%	588	100%
No Data	4	1%	2	<1%
At or Above Provincial Standard (Levels 3 and 4)[†]	78%		83%	



All Students: Province by Gender*				
Number of Students	Female 49 157		Male 46 757	
	#	%	#	%
Level 4	5 363	11%	6 085	13%
Level 3	35 706	73%	34 029	73%
Level 2	5 688	12%	4 443	10%
Level 1	1 918	4%	1 699	4%
Below Level 1	87	<1%	160	<1%
Participating Students	48 762	99%	46 416	99%
No Data	395	1%	341	1%
At or Above Provincial Standard (Levels 3 and 4)[†]	84%		86%	



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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.
^{††} Includes only students for whom gender data were available.

Grade 9 Assessment of Mathematics, 2013–2014

Contextual Information over Time: Applied Mathematics Course

This information provides a context for interpreting the board's results of the current and previous administrations.

	2009–2010	2010–2011	2011–2012	2012–2013	2013–2014	
Enrolment						
Number of students in applied mathematics course	604	592	512	438	425	
Number of classes with students in applied mathematics course	28	27	27	21	20	
Number of schools with applied mathematics classes	8	8	8	8	9	
Participation in the Assessment						
Students who participated in the assessment	99%	98%	97%	97%	99%	
Participating students who received one or more accommodations*	15%	16%	17%	18%	20%	
Participating students who received one or more special provisions*	3%	3%	2%	4%	3%	
Students who did not complete any part of the assessment (no data)*	1%	2%	3%	3%	1%	
Gender[†] Based on number of students enrolled						
Female	44%	43%	42%	45%	48%	
Male	56%	57%	58%	55%	52%	
Gender not specified	0%	0%	0%	0%	0%	
Student Status[†] Based on number of students enrolled						
English language learners*	4%	4%	2%	4%	3%	
Students with special education needs (excluding gifted)*	23%	24%	24%	25%	24%	
Semester/Full Year Based on number of students enrolled						
First-semester course	51%	49%	54%	50%	50%	
Second-semester course	49%	51%	46%	50%	50%	
Full-year course	0%	0%	0%	0%	0%	
Language and School Background^{††} Based on Student Questionnaire data						
	Number of Respondents:	585	547	446	399	352
Speak only or mostly a language other than English at home	10%	11%	11%	8%	8%	
Speak another language as often as English at home	12%	17%	15%	19%	13%	
Attended three or more elementary schools from kindergarten to Grade 8	28%	32%	35%	37%	34%	

* See the Explanation of Terms.

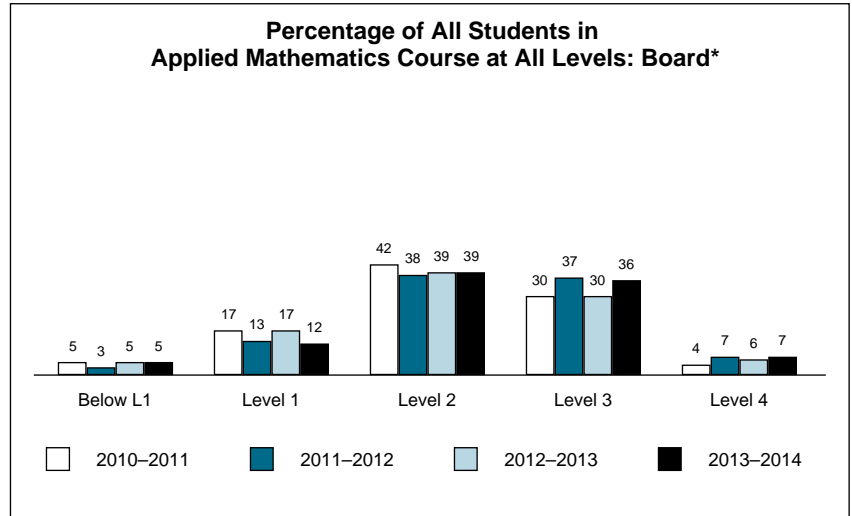
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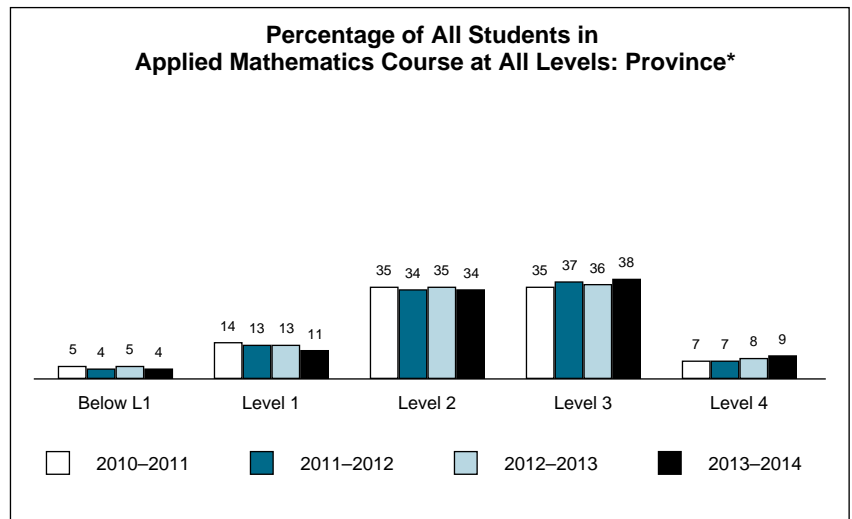
Results over Time, 2010–2011 to 2013–2014

Applied Mathematics Course for All Students

Board*				
Year	'10-'11	'11-'12	'12-'13	'13-'14
<i>Number of Students</i>	592	512	438	425
Level 4	4%	7%	6%	7%
Level 3	30%	37%	30%	36%
Level 2	42%	38%	39%	39%
Level 1	17%	13%	17%	12%
Below Level 1	5%	3%	5%	5%
<i>Participating Students</i>	98%	97%	97%	99%
No Data	2%	3%	3%	1%
At or Above Provincial Standard (Levels 3 and 4)†	34%	43%	36%	42%



Province*				
Year	'10-'11	'11-'12	'12-'13	'13-'14
<i>Number of Students</i>	44 095	41 799	39 881	38 181
Level 4	7%	7%	8%	9%
Level 3	35%	37%	36%	38%
Level 2	35%	34%	35%	34%
Level 1	14%	13%	13%	11%
Below Level 1	5%	4%	5%	4%
<i>Participating Students</i>	95%	95%	96%	96%
No Data	5%	5%	4%	4%
At or Above Provincial Standard (Levels 3 and 4)†	42%	44%	44%	47%



* 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.

Grade 9 Assessment of Mathematics, 2013–2014

Contextual Information over Time: Academic Mathematics Course

This information provides a context for interpreting the board's results of the current and previous administrations.

2009–2010 2010–2011 2011–2012 2012–2013 2013–2014

Enrolment

Number of students in academic mathematics course	1 390	1 274	1 184	1 114	1 189
Number of classes with students in academic mathematics course	54	49	43	43	43
Number of schools with academic mathematics classes	8	8	8	8	9

Participation in the Assessment

Students who participated in the assessment	100%	99%	100%	100%	99%
Participating students who received one or more accommodations*	3%	2%	3%	3%	3%
Participating students who received one or more special provisions*	1%	1%	1%	1%	1%
Students who did not complete any part of the assessment (no data)*	<1%	1%	<1%	<1%	1%

Gender[†] Based on number of students enrolled

Female	52%	50%	50%	53%	50%
Male	48%	50%	50%	47%	50%
Gender not specified	0%	0%	0%	0%	0%

Student Status[†] Based on number of students enrolled

English language learners*	2%	2%	2%	1%	1%
Students with special education needs (excluding gifted)*	3%	3%	4%	4%	4%

Semester/Full Year Based on number of students enrolled

First-semester course	51%	46%	51%	46%	50%
Second-semester course	49%	54%	49%	54%	50%
Full-year course	0%	0%	0%	0%	0%

Language and School Background^{††}

Based on Student Questionnaire data

Number of Respondents:	<i>1 362</i>	<i>1 186</i>	<i>1 132</i>	<i>1 037</i>	<i>1 041</i>
Speak only or mostly a language other than English at home	9%	10%	8%	8%	7%
Speak another language as often as English at home	11%	11%	13%	12%	9%
Attended three or more elementary schools from kindergarten to Grade 8	27%	25%	29%	27%	26%

* See the Explanation of Terms.

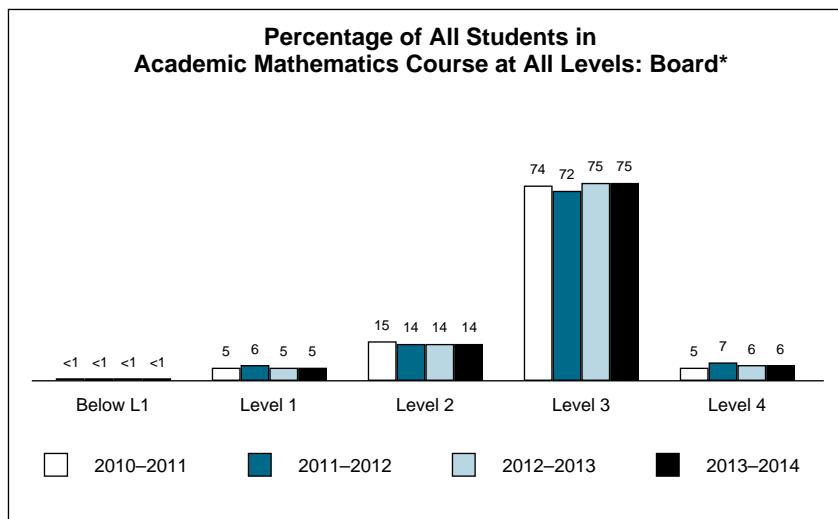
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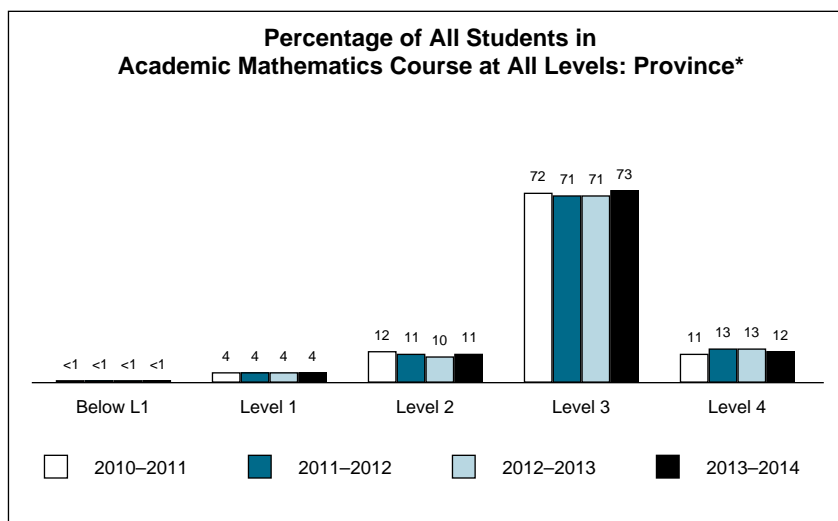
Results over Time, 2010–2011 to 2013–2014

Academic Mathematics Course for All Students

Board*				
Year	'10-'11	'11-'12	'12-'13	'13-'14
<i>Number of Students</i>	1 274	1 184	1 114	1 189
Level 4	5%	7%	6%	6%
Level 3	74%	72%	75%	75%
Level 2	15%	14%	14%	14%
Level 1	5%	6%	5%	5%
Below Level 1	<1%	<1%	<1%	<1%
<i>Participating Students</i>	99%	100%	100%	99%
No Data	1%	<1%	<1%	1%
At or Above Provincial Standard (Levels 3 and 4)†	79%	79%	80%	81%



Province*				
Year	'10-'11	'11-'12	'12-'13	'13-'14
<i>Number of Students</i>	99 278	97 741	97 158	95 914
Level 4	11%	13%	13%	12%
Level 3	72%	71%	71%	73%
Level 2	12%	11%	10%	11%
Level 1	4%	4%	4%	4%
Below Level 1	<1%	<1%	<1%	<1%
<i>Participating Students</i>	99%	99%	99%	99%
No Data	1%	1%	1%	1%
At or Above Provincial Standard (Levels 3 and 4)†	83%	84%	84%	85%

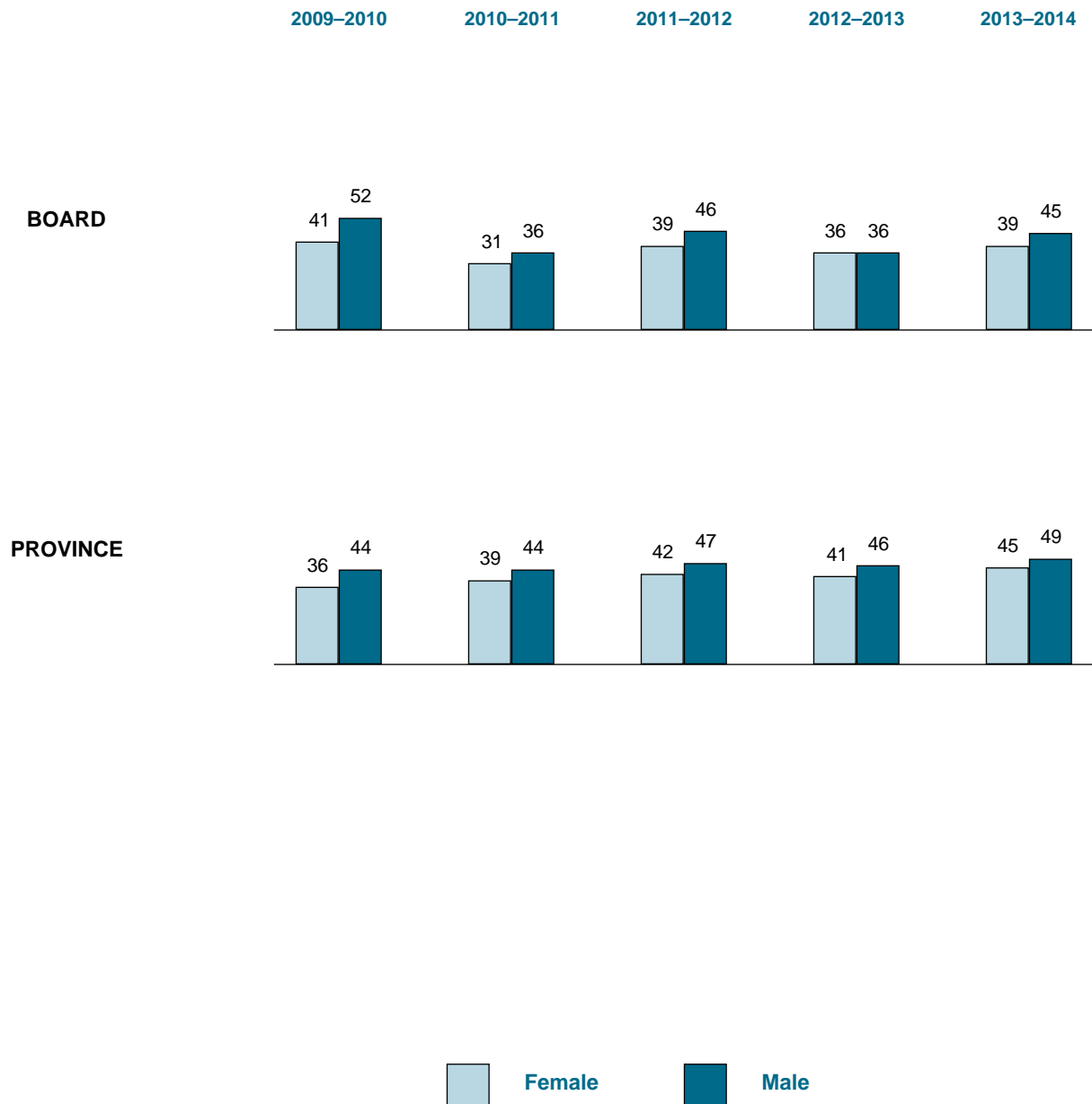


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RESULTS FOR ALL STUDENTS OVER TIME BY GENDER †

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



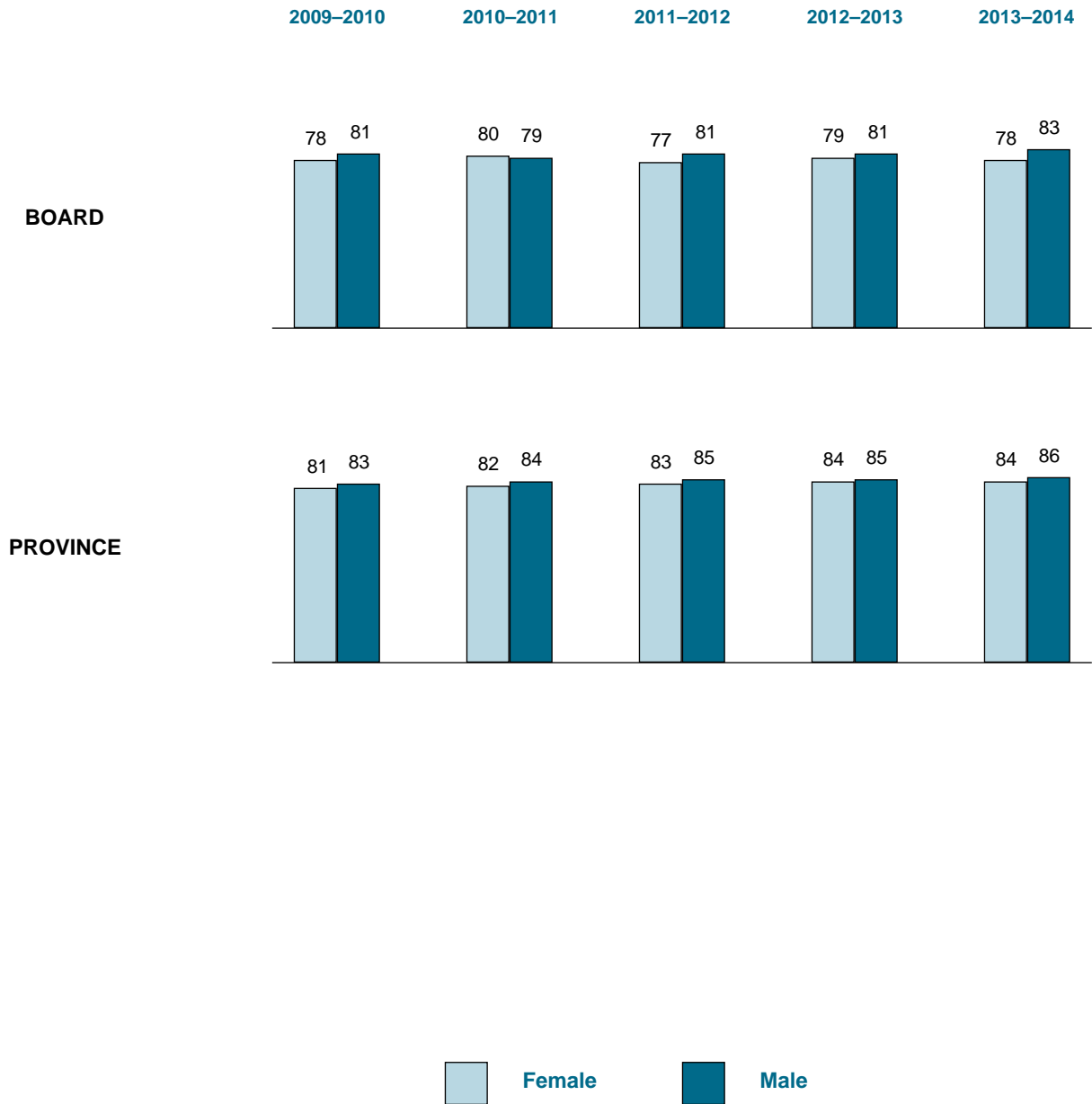
Total Number of Students in Applied Mathematics Course†

	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014	
	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Board	265	339	255	337	214	298	195	243	203	222
Province	21 262	26 304	19 721	24 374	18 563	23 236	17 695	22 181	16 662	21 519

† Includes only students for whom gender data were available.

RESULTS FOR ALL STUDENTS OVER TIME BY GENDER †

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



Total Number of Students in Academic Mathematics Course †

	2009-2010		2010-2011		2011-2012		2012-2013		2013-2014	
	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Board	718	672	635	639	592	592	589	525	599	590
Province	51 972	49 296	50 814	48 464	50 134	47 607	49 986	47 171	49 157	46 757

† Includes only students for whom gender data were available.

Grade 9 Assessment of Mathematics, 2013–2014, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# =352)

Strongly Disagree/Disagree
 Neither agree nor disagree
 Agree/Strongly agree

STUDENTS' ATTITUDES TOWARD MATHEMATICS

How much do you agree or disagree with the following statements?	Percentage of Students*	Number of students who answered "agree" or "strongly agree"
I like mathematics.		93
I am good at mathematics.		113
I am able to answer difficult mathematics questions.		69
Mathematics is one of my favourite subjects.		58
I understand most of the mathematics I am taught.		198
Mathematics is an easy subject.		63
I do my best in mathematics class.		233
The mathematics I learn now is useful for everyday life.		107
The mathematics I learn now helps me do work in other subjects.		141
I need to do well in mathematics to study what I want later.		173
I need to keep taking mathematics for the kind of job I want after I leave school.		147

Not at all confident
 Somewhat confident
 Confident
 Very confident

How confident are you that you can answer mathematics questions related to the following?

How confident are you that you can answer mathematics questions related to the following?	Percentage of Students*	Number of students who answered "very confident"
number sense (e.g., operations with integers, rational numbers, exponents)		29
algebra (e.g., solving equations, simplifying expressions with polynomials)		31
linear relations (e.g., scatter plots, lines of best fit)		73
measurement (e.g., perimeter, area, volume)		87
geometry (e.g., angles, parallel lines)		41

* Percentages may not add to 100, due to rounding or to ambiguous responses or blanks. Where there is no number in a bar, the percentage of responses is smaller than four.

Grade 9 Assessment of Mathematics, 2013–2014, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# =352)



DOING MATHEMATICS

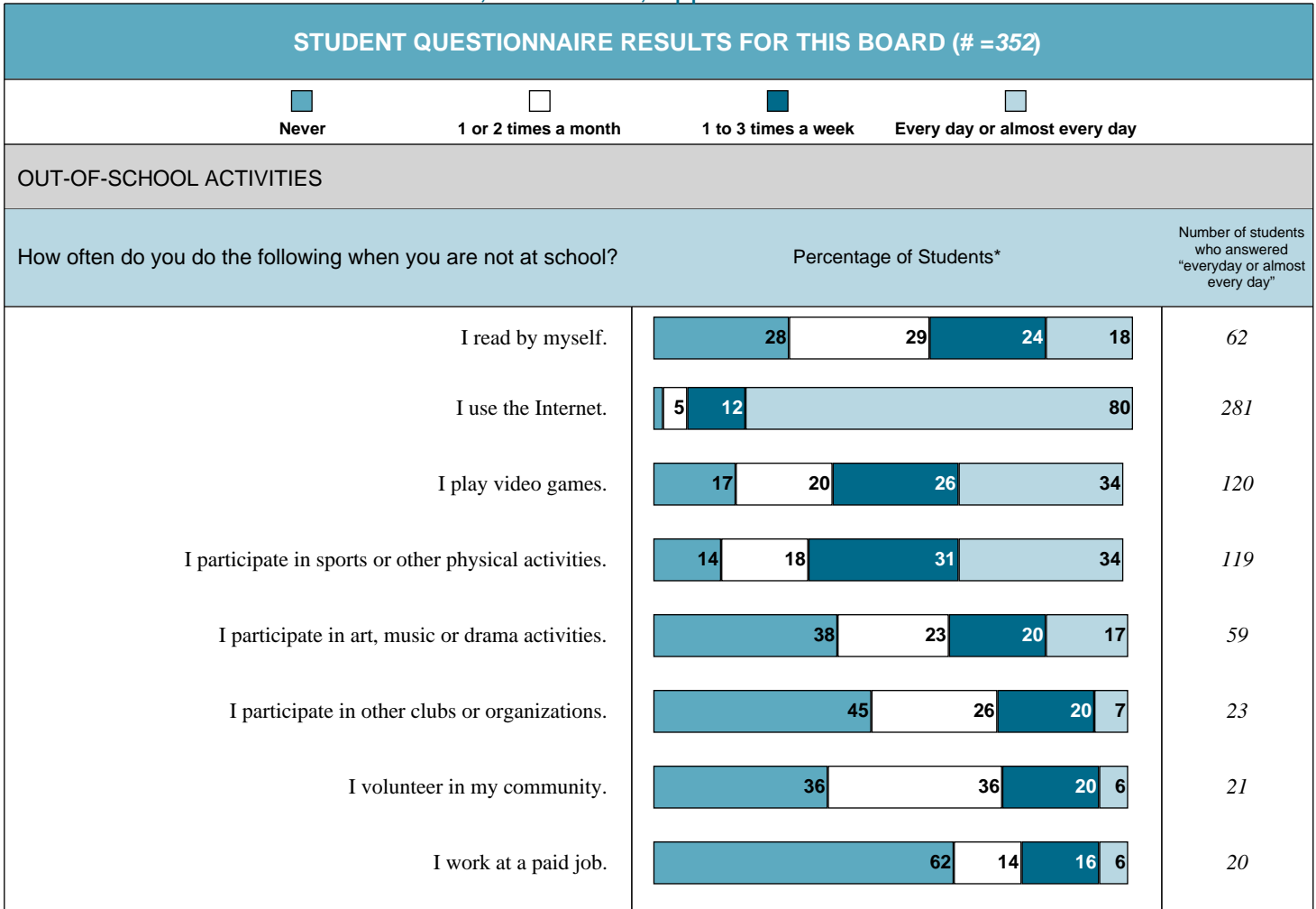
How often do you do the following when studying mathematics or working on a mathematics problem?	Percentage of Students*	Number of students who answered "very often"
I connect new mathematics concepts to what I already know about mathematics or other subjects.		14
I check my mathematics answers to see if they make sense.		63
I apply new mathematics concepts to real-life problems.		16
I take time to discuss my mathematics assignments with my classmates.		16
I look for more than one way to solve mathematics problems.		31

How often do you complete your mathematics homework?

How often do you complete your mathematics homework?	Percentage of Students*	Number of students
I am not usually assigned any mathematics homework		13
Never or almost never		25
Sometimes		118
Often		121
Always		71

* Percentages may not add to 100, due to rounding or to ambiguous responses or blanks. Where there is no number in a bar, the percentage of responses is smaller than four.

Grade 9 Assessment of Mathematics, 2013–2014, Applied Course



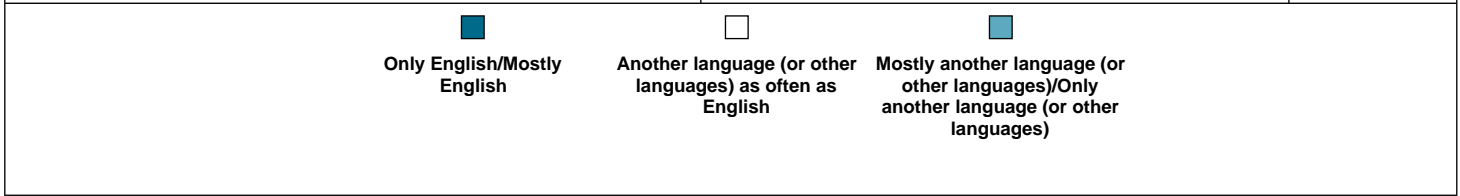
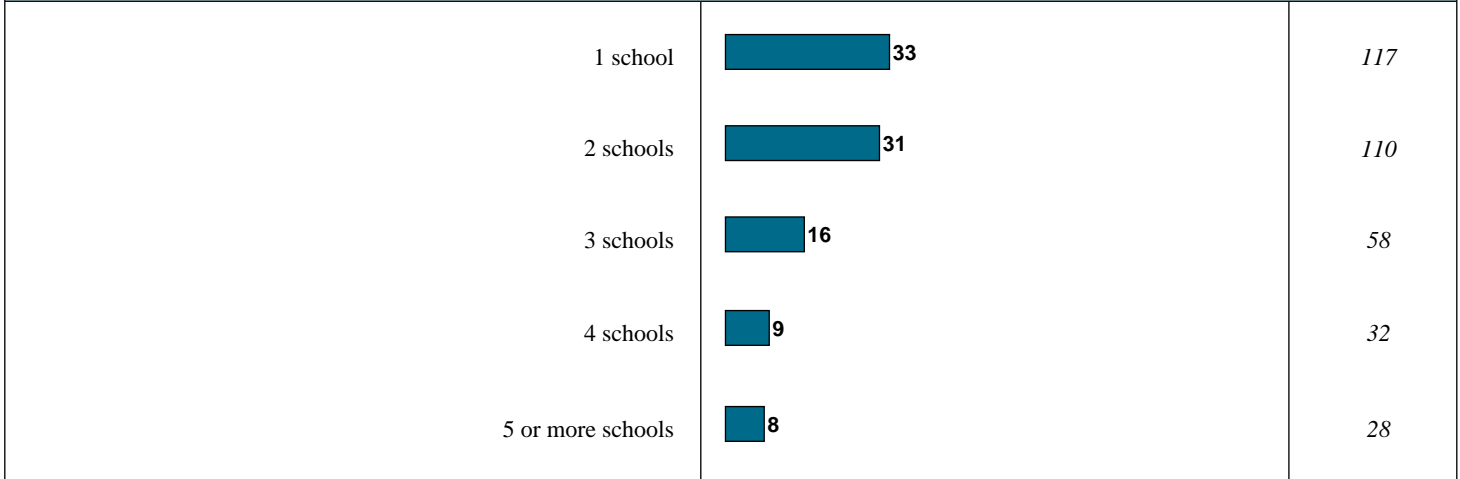
* Percentages may not add to 100, due to rounding or to ambiguous responses or blanks. Where there is no number in a bar, the percentage of responses is smaller than four.

Grade 9 Assessment of Mathematics, 2013–2014, Applied Course

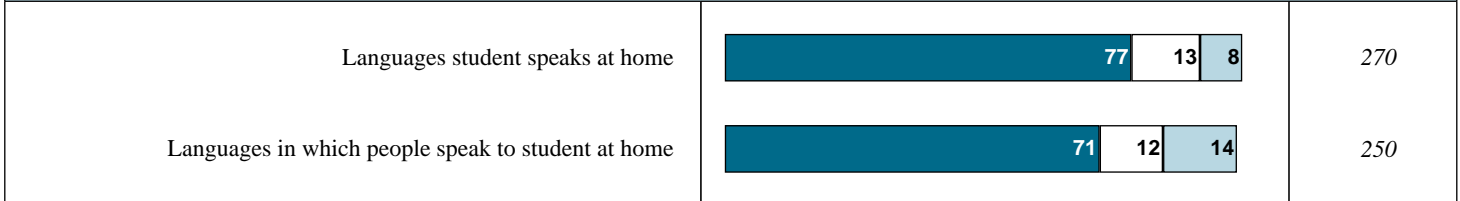
STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# =352)

SCHOOLS ATTENDED

How many schools did you attend from kindergarten to Grade 8? Percentage of Students* Number of students











LANGUAGES SPOKEN Percentage of Students* Number of students who answered "only English" or "mostly English"



* Percentages may not add to 100, due to rounding or to ambiguous responses or blanks. Where there is no number in a bar, the percentage of responses is smaller than four.

Grade 9 Assessment of Mathematics, 2013–2014, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# =352)		
USE OF THE ASSESSMENT IN CLASS MARKS		
Will your teacher count some or all parts of the Grade 9 Assessment of Mathematics as part of your class mark?	Percentage of Students*	Number of students
Yes	 49	174
No	 3	9
Don't know	 47	164
<i>Total number of students:</i>		174
Were you told how much the assessment will count as part of your class mark (e.g., 5%)? †	Percentage of Students*	Number of students
Yes	 90	156
No	 10	18
<i>Total number of students:</i>		174
Does counting the Grade 9 Assessment of Mathematics as part of your class mark motivate you to take the assessment more seriously? †	Percentage of Students*	Number of students
Yes	 68	119
No	 10	17
Undecided	 22	38

* Percentages may not add to 100, due to rounding or to ambiguous responses or blanks.

† Numbers and percentages are based on the number of students who indicated that their teacher will count some or all parts of the assessment as part of their class mark.

Grade 9 Assessment of Mathematics, 2013–2014, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 352)	Female* (# = 169)	Male* (# = 183)	All Students (# = 31 979)	Female* (# = 14 068)	Male* (# = 17 911)
STUDENTS' ATTITUDES TOWARD MATHEMATICS						
Percentage of students indicating they "agree" or "strongly agree" with the following statements: †						
I like mathematics.	26%	20%	33%	36%	30%	41%
I am good at mathematics.	32%	24%	40%	37%	29%	43%
I am able to answer difficult mathematics questions.	20%	12%	26%	24%	16%	31%
Mathematics is one of my favourite subjects.	16%	12%	21%	22%	18%	25%
I understand most of the mathematics I am taught.	56%	51%	61%	62%	59%	65%
Mathematics is an easy subject.	18%	12%	23%	20%	15%	24%
I do my best in mathematics class.	66%	69%	63%	65%	68%	63%
The mathematics I learn now is useful for everyday life.	30%	25%	36%	36%	31%	40%
The mathematics I learn now helps me do work in other subjects.	40%	37%	43%	45%	43%	47%
I need to do well in mathematics to study what I want later.	49%	45%	53%	49%	46%	52%
I need to keep taking mathematics for the kind of job I want after I leave school.	42%	38%	45%	43%	40%	46%
Percentage of students indicating they feel "confident" or "very confident" that they can answer mathematics questions related to the following: ‡						
number sense (e.g., operations with integers, rational numbers, exponents)	43%	32%	53%	47%	39%	54%
algebra (e.g., solving equations, simplifying expressions with polynomials)	38%	32%	44%	46%	43%	49%
linear relations (e.g., scatter plots, lines of best fit)	57%	54%	60%	61%	55%	65%
measurement (e.g., perimeter, area, volume)	65%	64%	66%	69%	66%	71%
geometry (e.g., angles, parallel lines)	46%	40%	52%	48%	41%	54%

* Only includes students for whom gender data were available.

† Other response options were "strongly disagree," "disagree" and "neither agree nor disagree."

‡ Other response options were "not at all confident" and "somewhat confident."

Grade 9 Assessment of Mathematics, 2013–2014, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 352)	Female* (# = 169)	Male* (# = 183)	All Students (# = 31 979)	Female* (# = 14 068)	Male* (# = 17 911)
DOING MATHEMATICS						
Percentage of students indicating they do the following “very often” when studying mathematics or working on a mathematics problem: †						
I connect new mathematics concepts to what I already know about mathematics or other subjects.	4%	4%	4%	5%	5%	6%
I check my mathematics answers to see if they make sense.	18%	19%	17%	18%	19%	17%
I apply new mathematics concepts to real-life problems.	5%	1%	8%	5%	3%	6%
I take time to discuss my mathematics assignments with my classmates.	5%	2%	7%	6%	6%	6%
I look for more than one way to solve mathematics problems.	9%	8%	10%	12%	11%	13%
Percentage of students indicating they complete their mathematics homework at the following frequencies: ‡						
I am not usually assigned any mathematics homework	4%	5%	3%	10%	9%	10%
Never or almost never	7%	7%	7%	8%	7%	9%
Sometimes	34%	30%	37%	28%	27%	29%
Often	34%	33%	36%	33%	34%	33%
Always	20%	24%	16%	18%	22%	16%

* Only includes students for whom gender data were available.

† Other response options were “never or almost never,” “sometimes” and “often.”

‡ Percentages may not add up to 100, due to rounding or to ambiguous responses or blanks.

Grade 9 Assessment of Mathematics, 2013–2014, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 352)	Female* (# = 169)	Male* (# = 183)	All Students (# = 31 979)	Female* (# = 14 068)	Male* (# = 17 911)
OUT-OF-SCHOOL ACTIVITIES						
Percentage of students indicating they do the following “every day or almost every day” when they are not at school: †						
I read by myself.	18%	22%	14%	19%	27%	13%
I use the Internet.	80%	89%	72%	75%	81%	71%
I play video games.	34%	15%	51%	29%	11%	43%
I participate in sports or other physical activities.	34%	25%	42%	34%	24%	41%
I participate in art, music or drama activities.	17%	23%	11%	16%	22%	12%
I participate in other clubs or organizations.	7%	5%	8%	8%	7%	9%
I volunteer in my community.	6%	7%	5%	5%	6%	5%
I work at a paid job.	6%	5%	7%	7%	6%	9%
SCHOOLS ATTENDED						
Percentage of students indicating the number of schools they attended from kindergarten to Grade 8: ‡						
1 school	33%	37%	30%	27%	26%	27%
2 schools	31%	30%	32%	30%	30%	30%
3 schools	16%	13%	20%	19%	19%	19%
4 schools	9%	11%	7%	11%	11%	11%
5 or more schools	8%	8%	8%	11%	11%	10%
LANGUAGES SPOKEN						
Percentage of students indicating that they speak the following languages at home: ‡						
Only English/Mostly English	77%	79%	74%	78%	78%	78%
Another language (or other languages) as often as English	13%	11%	16%	13%	13%	12%
Mostly another language (or other languages)/ Only another language (or other languages)	8%	9%	7%	6%	6%	7%
Percentage of students indicating the languages people speak to them at home: ‡						
Only English/Mostly English	71%	73%	69%	75%	74%	75%
Another language (or other languages) as often as English	12%	11%	14%	12%	13%	12%
Mostly another language (or other languages)/ Only another language (or other languages)	14%	14%	14%	10%	9%	10%

* Only includes students for whom gender data were available.

† Other response options were “never,” “1 or 2 times a month” and “1 to 3 times a week.”

‡ Percentages may not add up to 100, due to rounding or to ambiguous responses or blanks.

Grade 9 Assessment of Mathematics, 2013–2014, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 352)	Female* (# = 169)	Male* (# = 183)	All Students (# = 31 979)	Female* (# = 14 068)	Male* (# = 17 911)
USE OF THE ASSESSMENT IN CLASS MARKS						
Percentage of students indicating their teacher will count some or all parts of the Grade 9 Assessment of Mathematics as part of their class mark: †						
Yes	49%	50%	49%	45%	48%	43%
No	3%	1%	4%	2%	2%	3%
Don't know	47%	48%	45%	49%	47%	51%
Percentage of students indicating they were told how much the assessment will count as part of their class mark: †‡						
	All Students (# = 174)	Female* (# = 85)	Male* (# = 89)	All Students (# = 14 431)	Female* (# = 6 707)	Male* (# = 7 724)
Yes	90%	92%	88%	88%	89%	88%
No	10%	8%	12%	11%	10%	12%
Percentage of students indicating that counting the Grade 9 Assessment of Mathematics as part of their class mark motivates them to take the assessment more seriously: †‡						
	All Students (# = 174)	Female* (# = 85)	Male* (# = 89)	All Students (# = 14 431)	Female* (# = 6 707)	Male* (# = 7 724)
Yes	68%	67%	70%	75%	76%	75%
No	10%	9%	10%	9%	8%	11%
Undecided	22%	24%	20%	15%	16%	14%

* Includes only students for whom gender data were available.

† Percentages may not add to 100, due to rounding or to ambiguous responses or blanks.

‡ Numbers and percentages are based on the number of students who indicated that their teacher will count some or all parts of the assessment as part of their class mark.

Grade 9 Assessment of Mathematics, 2013–2014, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# = 1 041)

Strongly Disagree/Disagree
 Neither agree nor disagree
 Agree/Strongly agree

STUDENTS' ATTITUDES TOWARD MATHEMATICS

How much do you agree or disagree with the following statements?	Percentage of Students*			Number of students who answered "agree" or "strongly agree"
I like mathematics.	22	30	49	507
I am good at mathematics.	18	29	53	553
I am able to answer difficult mathematics questions.	18	38	44	456
Mathematics is one of my favourite subjects.	48	20	32	336
I understand most of the mathematics I am taught.	10	19	71	735
Mathematics is an easy subject.	39	35	26	272
I do my best in mathematics class.	9	17	73	760
The mathematics I learn now is useful for everyday life.	39	33	28	290
The mathematics I learn now helps me do work in other subjects.	24	24	52	537
I need to do well in mathematics to study what I want later.	12	27	60	628
I need to keep taking mathematics for the kind of job I want after I leave school.	14	26	59	614





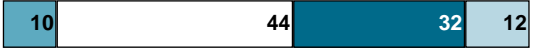



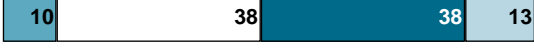




Not at all confident
 Somewhat confident
 Confident
 Very confident

How confident are you that you can answer mathematics questions related to the following?

How confident are you that you can answer mathematics questions related to the following?	Percentage of Students*			Number of students who answered "very confident"
number sense (e.g., operations with integers, rational numbers, exponents)	29	44	23	235
algebra (e.g., solving equations, simplifying expressions with polynomials)	5	25	38	315
linear relations (e.g., scatter plots, lines of best fit)	6	32	43	192
analytic geometry (e.g., slope, y-intercept, equations of lines)	10	27	39	236
measurement (e.g., perimeter, area, volume)	14	41	42	442
geometry (e.g., angles, parallel lines)	5	24	38	329

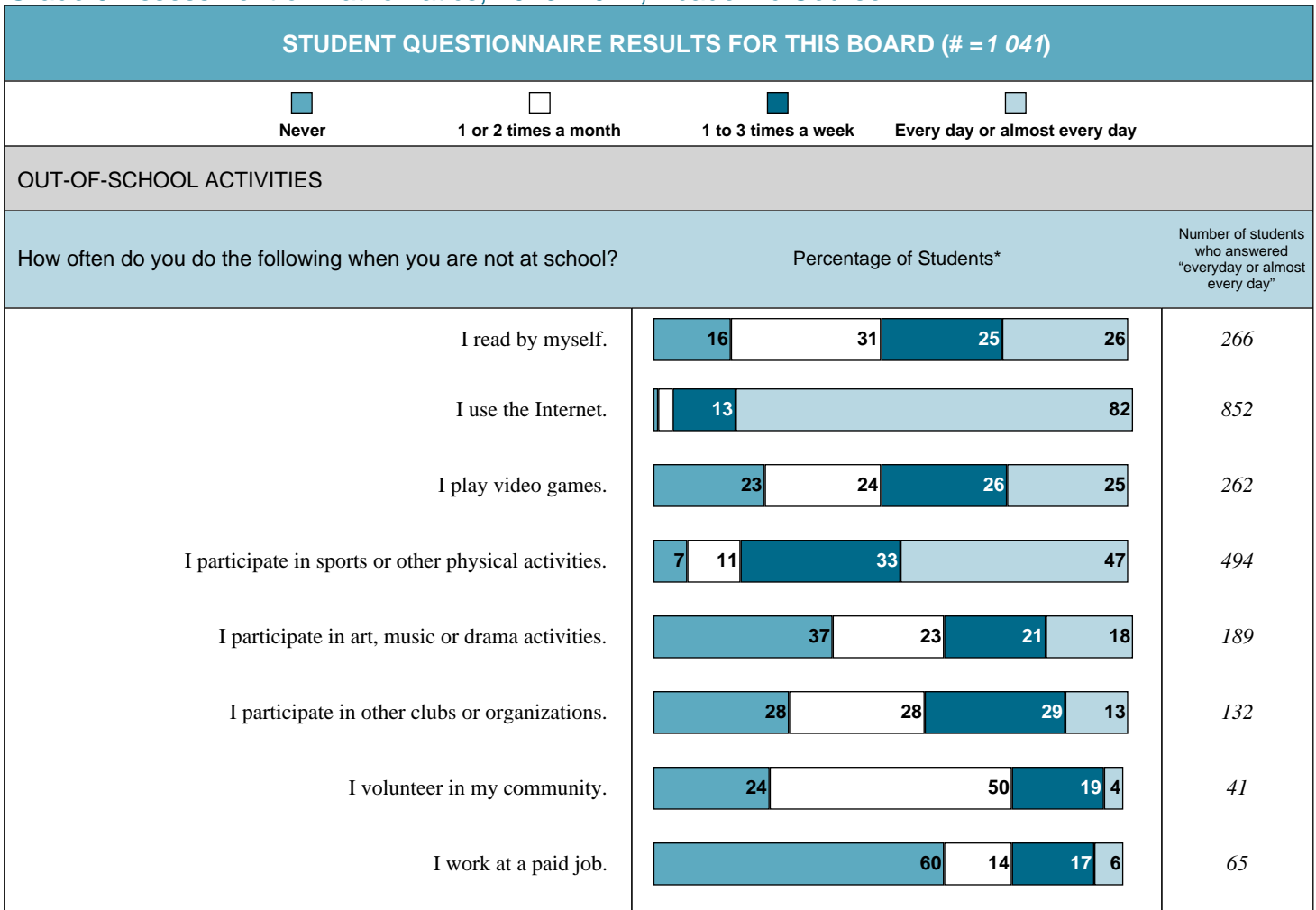
* Percentages may not add to 100, due to rounding or to ambiguous responses or blanks. Where there is no number in a bar, the percentage of responses is smaller than four.

Grade 9 Assessment of Mathematics, 2013–2014, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# = 1 041)				
	 Never or almost never	 Sometimes	 Often	 Very Often
DOING MATHEMATICS				
How often do you do the following when studying mathematics or working on a mathematics problem?		Percentage of Students*		Number of students who answered "very often"
I connect new mathematics concepts to what I already know about mathematics or other subjects.				125
I check my mathematics answers to see if they make sense.				306
I apply new mathematics concepts to real-life problems.				56
I take time to discuss my mathematics assignments with my classmates.				100
I look for more than one way to solve mathematics problems.				135
How often do you complete your mathematics homework?		Percentage of Students*		Number of students
I am not usually assigned any mathematics homework				5
Never or almost never				64
Sometimes				220
Often				397
Always				334











* Percentages may not add to 100, due to rounding or to ambiguous responses or blanks. Where there is no number in a bar, the percentage of responses is smaller than four.

Grade 9 Assessment of Mathematics, 2013–2014, Academic Course



* Percentages may not add to 100, due to rounding or to ambiguous responses or blanks. Where there is no number in a bar, the percentage of responses is smaller than four.

Grade 9 Assessment of Mathematics, 2013–2014, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# = 1 041)			
SCHOOLS ATTENDED			
How many schools did you attend from kindergarten to Grade 8?	Percentage of Students*		Number of students
1 school	 39		402
2 schools	 32		336
3 schools	 16		170
4 schools	 5		56
5 or more schools	 5		47
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  Only English/Mostly English </div> <div style="text-align: center;">  Another language (or other languages) as often as English </div> <div style="text-align: center;">  Mostly another language (or other languages)/Only another language (or other languages) </div> </div>			
LANGUAGES SPOKEN			Number of students who answered "only English" or "mostly English"
	Percentage of Students*		
Languages student speaks at home	 81 9 7		842
Languages in which people speak to student at home	 77 9 10		802

* Percentages may not add to 100, due to rounding or to ambiguous responses or blanks. Where there is no number in a bar, the percentage of responses is smaller than four.

Grade 9 Assessment of Mathematics, 2013–2014, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# = 1 041)		
USE OF THE ASSESSMENT IN CLASS MARKS		
Will your teacher count some or all parts of the Grade 9 Assessment of Mathematics as part of your class mark?	Percentage of Students*	Number of students
Yes	73	756
No	1	11
Don't know	23	241
<i>Total number of students:</i>		756
Were you told how much the assessment will count as part of your class mark (e.g., 5%)? †	Percentage of Students*	Number of students
Yes	89	675
No	11	80
<i>Total number of students:</i>		756
Does counting the Grade 9 Assessment of Mathematics as part of your class mark motivate you to take the assessment more seriously? †	Percentage of Students*	Number of students
Yes	78	592
No	8	61
Undecided	13	100

* Percentages may not add to 100, due to rounding or to ambiguous responses or blanks.

† Numbers and percentages are based on the number of students who indicated that their teacher will count some or all parts of the assessment as part of their class mark.

Grade 9 Assessment of Mathematics, 2013–2014, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 1 041)	Female* (# = 525)	Male* (# = 516)	All Students (# = 87 038)	Female* (# = 44 893)	Male* (# = 42 145)
STUDENTS' ATTITUDES TOWARD MATHEMATICS						
Percentage of students indicating they "agree" or "strongly agree" with the following statements: †						
I like mathematics.	49%	44%	53%	55%	50%	62%
I am good at mathematics.	53%	47%	59%	55%	49%	62%
I am able to answer difficult mathematics questions.	44%	34%	53%	46%	38%	55%
Mathematics is one of my favourite subjects.	32%	30%	35%	39%	34%	45%
I understand most of the mathematics I am taught.	71%	66%	75%	75%	72%	77%
Mathematics is an easy subject.	26%	22%	30%	30%	25%	35%
I do my best in mathematics class.	73%	74%	72%	70%	72%	67%
The mathematics I learn now is useful for everyday life.	28%	24%	32%	34%	29%	40%
The mathematics I learn now helps me do work in other subjects.	52%	51%	52%	55%	53%	57%
I need to do well in mathematics to study what I want later.	60%	60%	60%	63%	60%	66%
I need to keep taking mathematics for the kind of job I want after I leave school.	59%	59%	59%	58%	55%	61%
Percentage of students indicating they feel "confident" or "very confident" that they can answer mathematics questions related to the following: ‡						
number sense (e.g., operations with integers, rational numbers, exponents)	67%	61%	73%	70%	63%	77%
algebra (e.g., solving equations, simplifying expressions with polynomials)	68%	68%	69%	70%	68%	73%
linear relations (e.g., scatter plots, lines of best fit)	61%	56%	66%	60%	54%	66%
analytic geometry (e.g., slope, y-intercept, equations of lines)	61%	59%	63%	62%	58%	66%
measurement (e.g., perimeter, area, volume)	83%	79%	88%	81%	78%	84%
geometry (e.g., angles, parallel lines)	69%	63%	76%	71%	66%	76%

* Only includes students for whom gender data were available.

† Other response options were "strongly disagree," "disagree" and "neither agree nor disagree."

‡ Other response options were "not at all confident" and "somewhat confident."

Grade 9 Assessment of Mathematics, 2013–2014, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 1 041)	Female* (# = 525)	Male* (# = 516)	All Students (# = 87 038)	Female* (# = 44 893)	Male* (# = 42 145)
DOING MATHEMATICS						
Percentage of students indicating they do the following “very often” when studying mathematics or working on a mathematics problem: †						
I connect new mathematics concepts to what I already know about mathematics or other subjects.	12%	11%	13%	13%	12%	14%
I check my mathematics answers to see if they make sense.	29%	32%	27%	31%	33%	29%
I apply new mathematics concepts to real-life problems.	5%	4%	7%	6%	4%	8%
I take time to discuss my mathematics assignments with my classmates.	10%	11%	8%	11%	12%	11%
I look for more than one way to solve mathematics problems.	13%	11%	15%	15%	12%	17%
Percentage of students indicating they complete their mathematics homework at the following frequencies: ‡						
I am not usually assigned any mathematics homework	<1%	0%	1%	1%	1%	2%
Never or almost never	6%	4%	9%	5%	4%	7%
Sometimes	21%	15%	27%	21%	18%	25%
Often	38%	40%	36%	38%	38%	38%
Always	32%	38%	26%	31%	38%	25%

* Only includes students for whom gender data were available.

† Other response options were “never or almost never,” “sometimes” and “often.”

‡ Percentages may not add up to 100, due to rounding or to ambiguous responses or blanks.

Grade 9 Assessment of Mathematics, 2013–2014, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 1 041)	Female* (# = 525)	Male* (# = 516)	All Students (# = 87 038)	Female* (# = 44 893)	Male* (# = 42 145)
OUT-OF-SCHOOL ACTIVITIES						
Percentage of students indicating they do the following “every day or almost every day” when they are not at school: †						
I read by myself.	26%	33%	18%	27%	35%	18%
I use the Internet.	82%	85%	79%	82%	84%	79%
I play video games.	25%	6%	45%	22%	7%	39%
I participate in sports or other physical activities.	47%	40%	55%	40%	33%	48%
I participate in art, music or drama activities.	18%	22%	14%	18%	23%	13%
I participate in other clubs or organizations.	13%	12%	14%	11%	10%	12%
I volunteer in my community.	4%	4%	4%	5%	5%	4%
I work at a paid job.	6%	6%	7%	5%	4%	5%
SCHOOLS ATTENDED						
Percentage of students indicating the number of schools they attended from kindergarten to Grade 8: ‡						
1 school	39%	35%	42%	28%	28%	27%
2 schools	32%	34%	31%	33%	33%	33%
3 schools	16%	17%	16%	19%	19%	19%
4 schools	5%	6%	5%	10%	9%	10%
5 or more schools	5%	5%	4%	7%	8%	7%
LANGUAGES SPOKEN						
Percentage of students indicating that they speak the following languages at home: ‡						
Only English/Mostly English	81%	79%	82%	72%	73%	71%
Another language (or other languages) as often as English	9%	9%	8%	16%	16%	15%
Mostly another language (or other languages)/ Only another language (or other languages)	7%	7%	7%	9%	7%	10%
Percentage of students indicating the languages people speak to them at home: ‡						
Only English/Mostly English	77%	75%	79%	65%	66%	64%
Another language (or other languages) as often as English	9%	10%	8%	15%	15%	14%
Mostly another language (or other languages)/ Only another language (or other languages)	10%	11%	10%	15%	14%	16%

* Only includes students for whom gender data were available.

† Other response options were “never,” “1 or 2 times a month” and “1 to 3 times a week.”

‡ Percentages may not add up to 100, due to rounding or to ambiguous responses or blanks.

Grade 9 Assessment of Mathematics, 2013–2014, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 1 041)	Female* (# = 525)	Male* (# = 516)	All Students (# = 87 038)	Female* (# = 44 893)	Male* (# = 42 145)
USE OF THE ASSESSMENT IN CLASS MARKS						
Percentage of students indicating their teacher will count some or all parts of the Grade 9 Assessment of Mathematics as part of their class mark: †						
Yes	73%	76%	69%	69%	71%	66%
No	1%	1%	1%	1%	1%	2%
Don't know	23%	19%	28%	25%	23%	28%
Percentage of students indicating they were told how much the assessment will count as part of their class mark: ††						
	All Students (# = 756)	Female* (# = 400)	Male* (# = 356)	All Students (# = 59 884)	Female* (# = 32 030)	Male* (# = 27 854)
Yes	89%	88%	90%	94%	94%	94%
No	11%	12%	9%	6%	6%	6%
Percentage of students indicating that counting the Grade 9 Assessment of Mathematics as part of their class mark motivates them to take the assessment more seriously: ††						
	All Students (# = 756)	Female* (# = 400)	Male* (# = 356)	All Students (# = 59 884)	Female* (# = 32 030)	Male* (# = 27 854)
Yes	78%	80%	76%	77%	79%	75%
No	8%	6%	11%	10%	7%	13%
Undecided	13%	14%	12%	13%	13%	12%

* Includes only students for whom gender data were available.

† Percentages may not add to 100, due to rounding or to ambiguous responses or blanks.

‡ Numbers and percentages are based on the number of students who indicated that their teacher will count some or all parts of the assessment as part of their class mark.

Grade 9 Assessment of Mathematics, 2013–2014

EXPLANATION OF TERMS

All Students	Results are reported for all students in the course.
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/ Below L1	The student has not demonstrated sufficient achievement of curriculum expectations (below 50%).
No Data	Students who did not have a result due to absence or other reasons.
English Language Learners	Students who have been identified by the school in accordance with <i>English Language Learners: ESL and ELD Programs and Services: Policies and Procedures for Ontario Elementary and Secondary Schools, Kindergarten to Grade 12</i> (2007).
Students Receiving One or More Special Provisions	Students identified by the school as receiving special provisions. Detailed information about special provisions is available in EQAO's <i>Guide for Accommodations and Special Provisions</i> .
Students with Special Education Needs (excluding gifted)	Students who have been formally identified by an Identification, Placement and Review Committee, as well as students who have an Individual Education Plan. Students whose sole identified exceptionality is giftedness are not included.
Students Receiving One or More Accommodations	Students identified by the school as receiving accommodations. Detailed information about accommodations is available in EQAO's <i>Guide for Accommodations and Special Provisions</i> .
N/R	"Not reported" indicates that the number of students participating (fewer than 10 in a group) or responding to the Student Questionnaire is so small (fewer than six in a group) that identification of individual student results might be possible; therefore, results are not reported.
N/D	"No data available" is used to indicate that there were no students in the course for the years specified.
W	Results are being withheld by EQAO. For further information, please contact personnel at the board.