



School Board Report



Grade 9 Assessment of Mathematics, 2014–2015

Board: Simcoe Muskoka Catholic DSB (67091)

On behalf of EQAO, I am pleased to provide you with the results of the 2014–2015 Grade 9 Assessment of Mathematics.

This report includes the 2015 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. This school year was unique in that not all students participated in the provincial assessments because of labour action in the English-language public school system. As a result, there is no provincial-level information in this report.

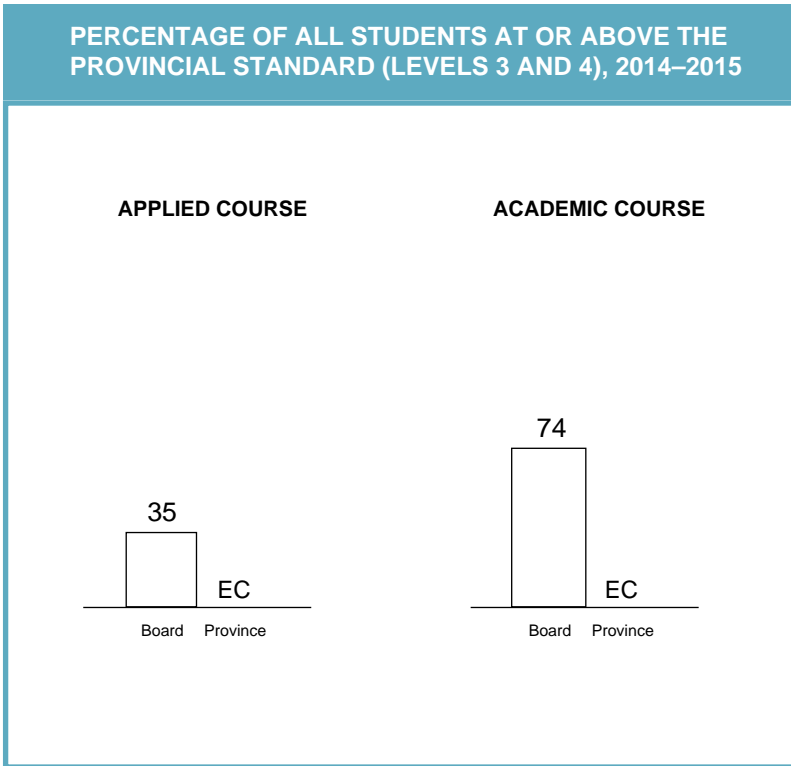
Assessing all students against a provincial standard provides reliable and objective data at the student, school and board levels and helps uncover important trends. By analyzing EQAO data alongside other evidence, school boards and schools can make informed decisions about how to improve student learning and can track their progress toward their goals.

At EQAO, we strongly believe that good information—in the hands of dedicated professionals and school communities—can help to identify areas for improvement and inform targeted interventions. We are pleased to provide reliable and useful information about student achievement from Ontario's provincial assessment program for all partners in the education system.

Sincerely,

Bruce Rodrigues
 Chief Executive Officer
 Education Quality and Accountability Office

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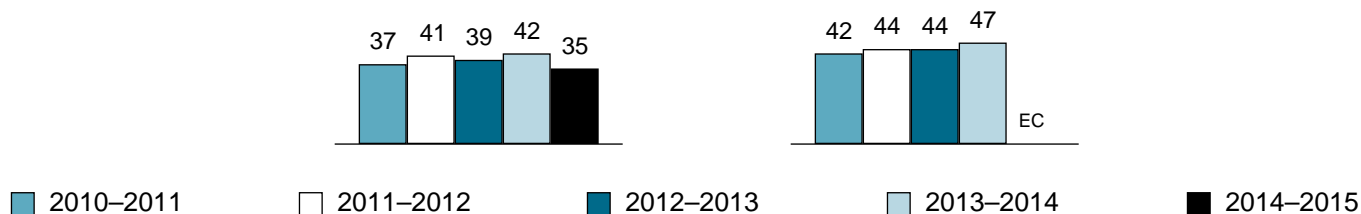
Grade 9 Assessment of Mathematics, 2014–2015

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

APPLIED MATHEMATICS

Board

Province

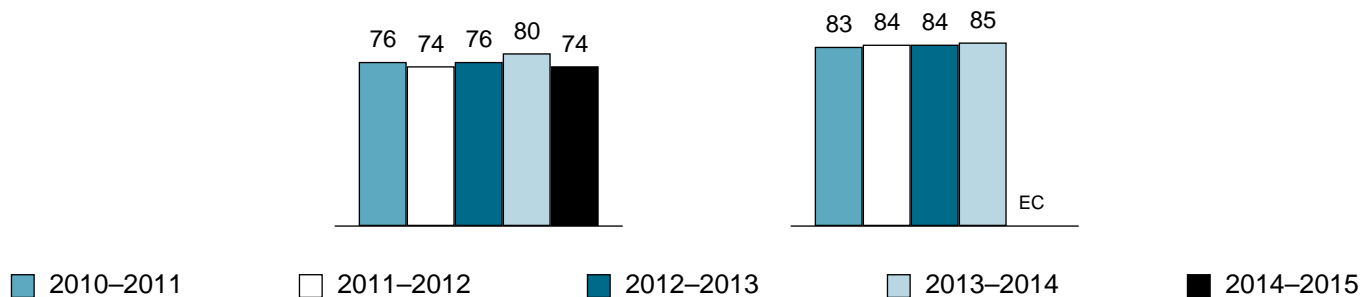


	Total Number of Students				
	<u>2010–2011</u>	<u>2011–2012</u>	<u>2012–2013</u>	<u>2013–2014</u>	<u>2014–2015</u>
Board	616	552	523	464	416
Province	44 095	41 799	39 881	38 181	EC

ACADEMIC MATHEMATICS

Board

Province



	Total Number of Students				
	<u>2010–2011</u>	<u>2011–2012</u>	<u>2012–2013</u>	<u>2013–2014</u>	<u>2014–2015</u>
Board	1 277	1 132	1 133	1 080	1 036
Province	99 278	97 741	97 158	95 914	EC

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, 2014–2015, 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	416		EC	
Number of classes with students in applied mathematics course	24		EC	
Number of schools with applied mathematics classes	9		EC	
Number Percent Number Percent				
Participation in the Assessment				
Students who participated in the assessment	407	98%	EC	EC
Participating students who received one or more accommodations*	150	37%	EC	EC
Participating students who received one or more special provisions*	0	0%	EC	EC
Students who did not complete any part of the assessment (no data)*	9	2%	EC	EC
Gender[†] Based on number of students enrolled				
Female	182	44%	EC	EC
Male	234	56%	EC	EC
Gender not specified	0	0%	EC	EC
Student Status[†] Based on number of students enrolled				
English language learners*	1	<1%	EC	EC
Students with special education needs (excluding gifted)*	189	45%	EC	EC
Semester/Full Year Based on number of students enrolled				
First-semester course	190	46%	EC	EC
Second-semester course	226	54%	EC	EC
Full-year course	0	0%	EC	EC
Language and School Background^{††}				
<i>Based on Student Questionnaire data</i>				
Number of Respondents:		352	EC	
Speak only or mostly a language other than English at home	15	4%	EC	EC
Speak another language as often as English at home	33	9%	EC	EC
Attended three or more elementary schools from kindergarten to Grade 8	121	34%	EC	EC

* See the Explanation of Terms.

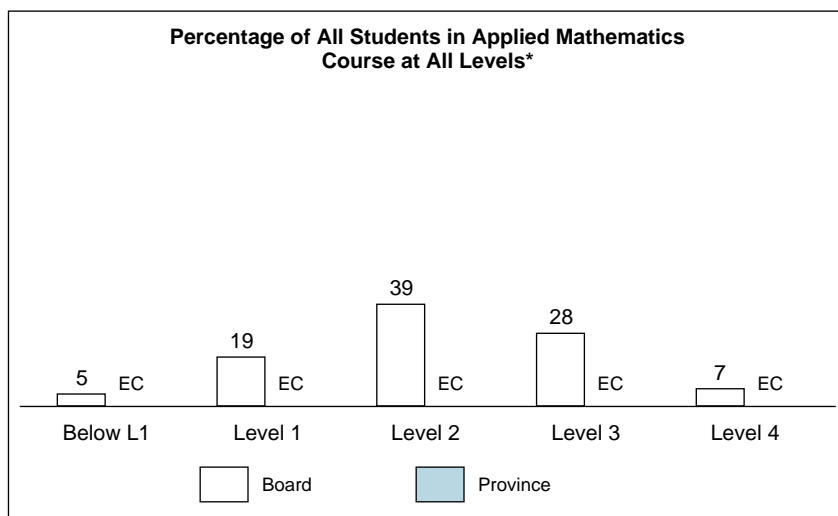
† Contextual data pertaining to "gender" and "student status" are provided by schools and/or boards through the Student Data Collection process. Some data may be missing because they were not provided by the school or the board.

†† 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, 2014–2015, Applied Course

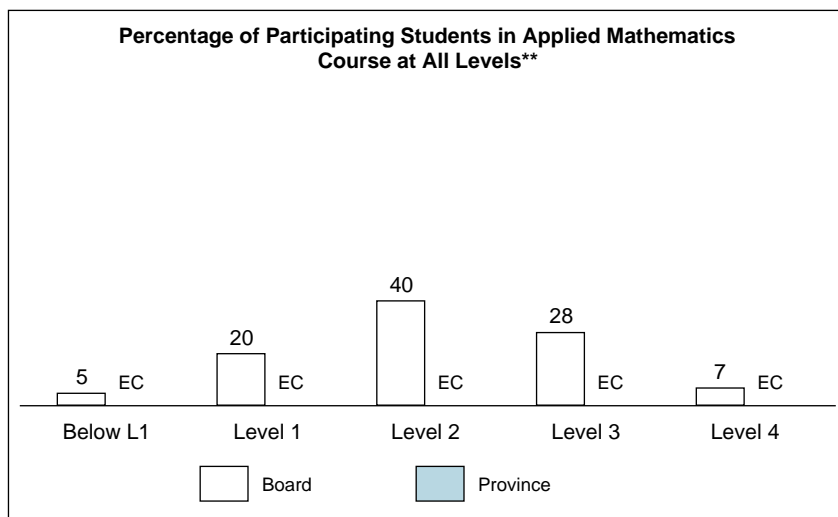
Results for All Students

All Students*			
Number of Students	Board 416		Province EC
	#	%	%
Level 4	30	7%	EC
Level 3	115	28%	EC
Level 2	162	39%	EC
Level 1	81	19%	EC
Below Level 1	19	5%	EC
Participating Students	407	98%	EC
No Data	9	2%	EC
At or Above Provincial Standard (Levels 3 and 4)†	35%		EC



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

Participating Students**			
Number of Students	Board 407		Province EC
	#	%	%
Level 4	30	7%	EC
Level 3	115	28%	EC
Level 2	162	40%	EC
Level 1	81	20%	EC
Below Level 1	19	5%	EC
At or Above Provincial Standard (Levels 3 and 4)†	36%		EC



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

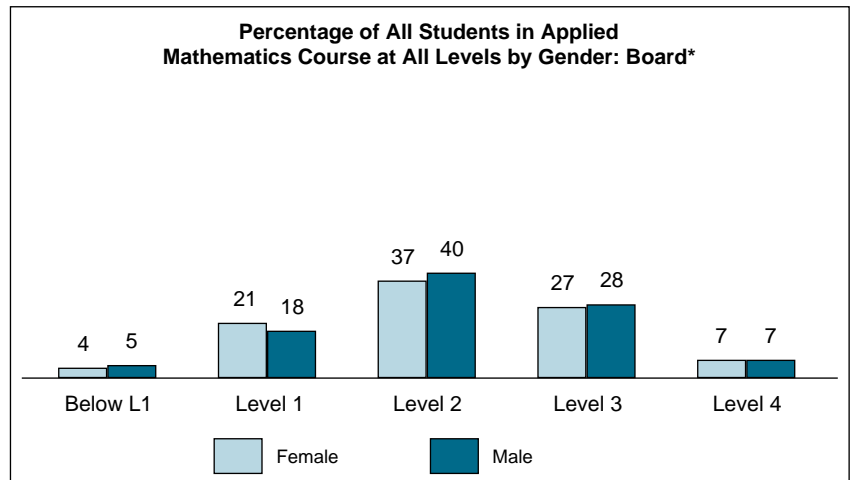
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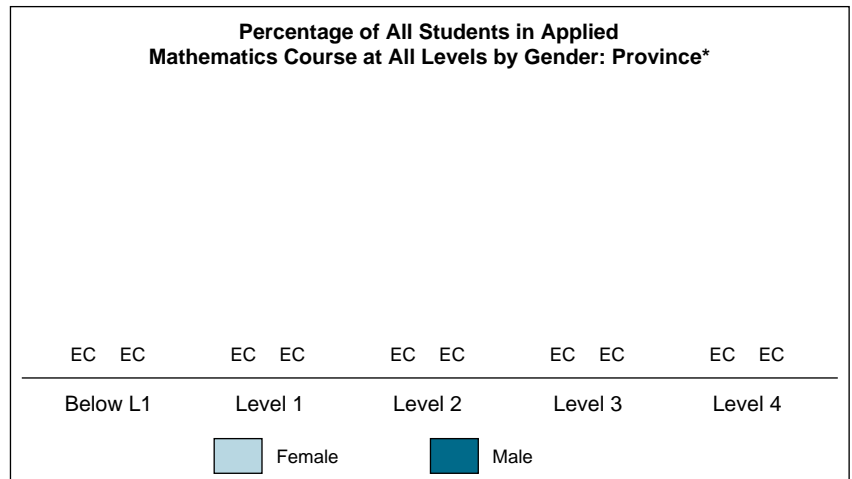
Grade 9 Assessment of Mathematics, 2014–2015, Applied Course

Results by Gender^{††}

All Students: Board by Gender*				
Number of Students	Female 182		Male 234	
	#	%	#	%
Level 4	13	7%	17	7%
Level 3	50	27%	65	28%
Level 2	68	37%	94	40%
Level 1	38	21%	43	18%
Below Level 1	8	4%	11	5%
Participating Students	177	97%	230	98%
No Data	5	3%	4	2%
At or Above Provincial Standard (Levels 3 and 4) [†]		35%	35%	



All Students: Province by Gender*				
Number of Students	Female EC		Male EC	
	#	%	#	%
Level 4	EC	EC	EC	EC
Level 3	EC	EC	EC	EC
Level 2	EC	EC	EC	EC
Level 1	EC	EC	EC	EC
Below Level 1	EC	EC	EC	EC
Participating Students	EC	EC	EC	EC
No Data	EC	EC	EC	EC
At or Above Provincial Standard (Levels 3 and 4) [†]		EC	EC	



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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, 2014–2015, 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	1 036		EC	
Number of classes with students in academic mathematics course	41		EC	
Number of schools with academic mathematics classes	9		EC	
Number Percent Number Percent				
Participation in the Assessment				
Students who participated in the assessment	1 022	99%	EC	EC
Participating students who received one or more accommodations*	41	4%	EC	EC
Participating students who received one or more special provisions*	0	0%	EC	EC
Students who did not complete any part of the assessment (no data)*	14	1%	EC	EC
Gender[†] Based on number of students enrolled				
Female	536	52%	EC	EC
Male	499	48%	EC	EC
Gender not specified	1	<1%	EC	EC
Student Status[†] Based on number of students enrolled				
English language learners*	0	0%	EC	EC
Students with special education needs (excluding gifted)*	63	6%	EC	EC
Semester/Full Year Based on number of students enrolled				
First-semester course	466	45%	EC	EC
Second-semester course	570	55%	EC	EC
Full-year course	0	0%	EC	EC
Language and School Background^{††} Based on Student Questionnaire data				
	Number of Respondents:		831	EC
Speak only or mostly a language other than English at home	24	3%	EC	EC
Speak another language as often as English at home	48	6%	EC	EC
Attended three or more elementary schools from kindergarten to Grade 8	166	20%	EC	EC

* See the Explanation of Terms.

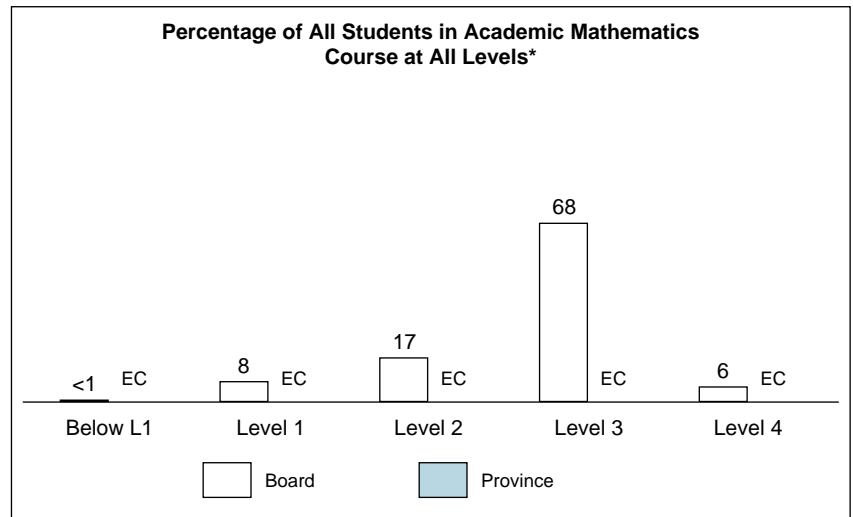
[†] Contextual data pertaining to "gender" and "student status" are provided by schools and/or boards through the Student Data Collection process. Some data may be missing because they were not provided by the school or the board.

^{††} 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, 2014–2015, Academic Course

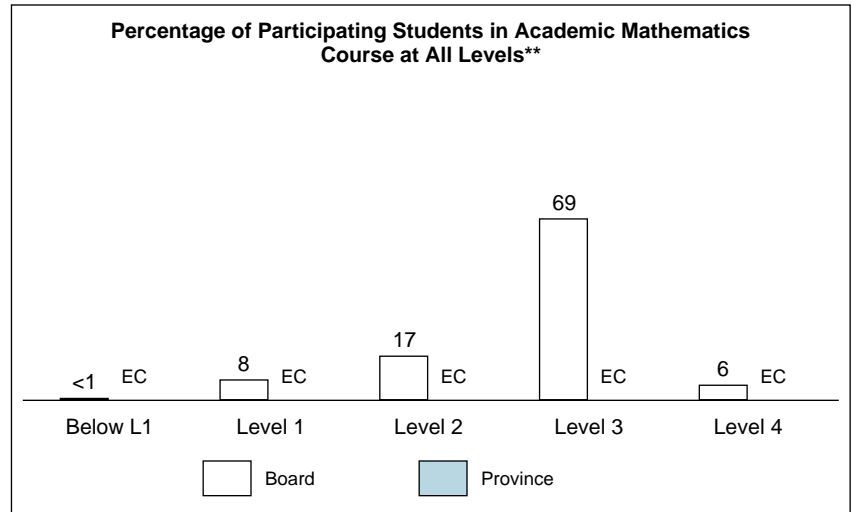
Results for All Students

All Students*			
Number of Students	Board 1 036		Province EC
	#	%	%
Level 4	61	6%	EC
Level 3	701	68%	EC
Level 2	176	17%	EC
Level 1	83	8%	EC
Below Level 1	1	<1%	EC
Participating Students	1 022	99%	EC
No Data	14	1%	EC
At or Above Provincial Standard (Levels 3 and 4) †		74%	EC



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

Participating Students**			
Number of Students	Board 1 022		Province EC
	#	%	%
Level 4	61	6%	EC
Level 3	701	69%	EC
Level 2	176	17%	EC
Level 1	83	8%	EC
Below Level 1	1	<1%	EC
At or Above Provincial Standard (Levels 3 and 4) †		75%	EC



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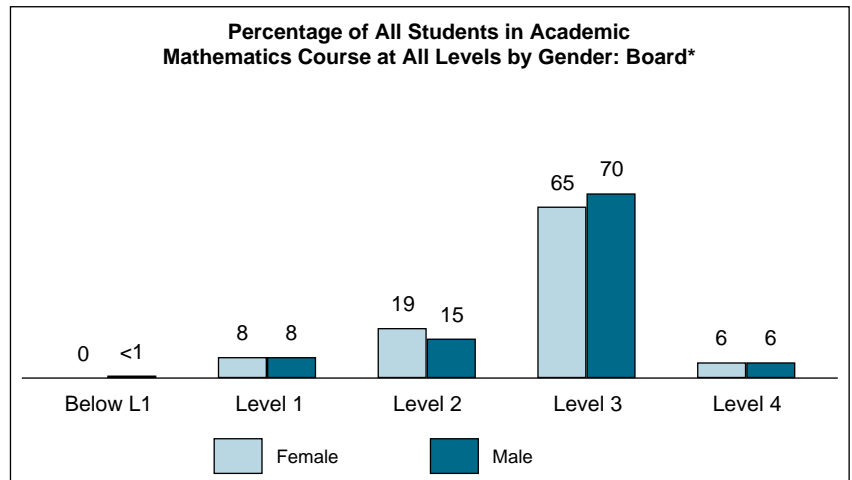
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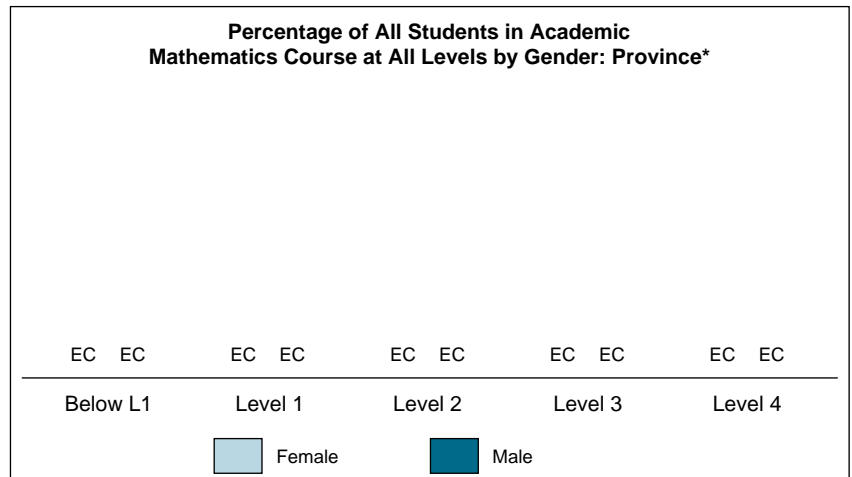
Grade 9 Assessment of Mathematics, 2014–2015, Academic Course

Results by Gender††

All Students: Board by Gender*				
Number of Students	Female 536		Male 499	
	#	%	#	%
Level 4	31	6%	30	6%
Level 3	351	65%	349	70%
Level 2	102	19%	74	15%
Level 1	44	8%	39	8%
Below Level 1	0	0%	1	<1%
Participating Students	528	99%	493	99%
No Data	8	1%	6	1%
At or Above Provincial Standard (Levels 3 and 4) †	71%		76%	



All Students: Province by Gender*				
Number of Students	Female EC		Male EC	
	#	%	#	%
Level 4	EC	EC	EC	EC
Level 3	EC	EC	EC	EC
Level 2	EC	EC	EC	EC
Level 1	EC	EC	EC	EC
Below Level 1	EC	EC	EC	EC
Participating Students	EC	EC	EC	EC
No Data	EC	EC	EC	EC
At or Above Provincial Standard (Levels 3 and 4) †	EC		EC	



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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, 2014–2015

Contextual Information over Time: Applied Mathematics Course

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

	2010–2011	2011–2012	2012–2013	2013–2014	2014–2015	
Enrolment						
Number of students in applied mathematics course	616	552	523	464	416	
Number of classes with students in applied mathematics course	30	31	29	25	24	
Number of schools with applied mathematics classes	9	9	9	9	9	
Participation in the Assessment						
Students who participated in the assessment	97%	95%	96%	95%	98%	
Participating students who received one or more accommodations*	17%	24%	23%	31%	37%	
Participating students who received one or more special provisions*	0%	0%	<1%	0%	0%	
Students who did not complete any part of the assessment (no data)*	3%	5%	4%	5%	2%	
Gender[†] Based on number of students enrolled						
Female	46%	46%	45%	41%	44%	
Male	54%	54%	55%	59%	56%	
Gender not specified	0%	0%	0%	0%	0%	
Student Status[†] Based on number of students enrolled						
English language learners*	<1%	0%	<1%	<1%	<1%	
Students with special education needs (excluding gifted)*	37%	37%	36%	44%	45%	
Semester/Full Year Based on number of students enrolled						
First-semester course	49%	50%	53%	55%	46%	
Second-semester course	51%	50%	47%	45%	54%	
Full-year course	0%	0%	0%	0%	0%	
Language and School Background^{††} Based on Student Questionnaire data						
	Number of Respondents:	526	458	440	356	352
Speak only or mostly a language other than English at home	5%	3%	3%	5%	4%	
Speak another language as often as English at home	8%	11%	7%	6%	9%	
Attended three or more elementary schools from kindergarten to Grade 8	33%	33%	36%	28%	34%	

* See the Explanation of Terms.

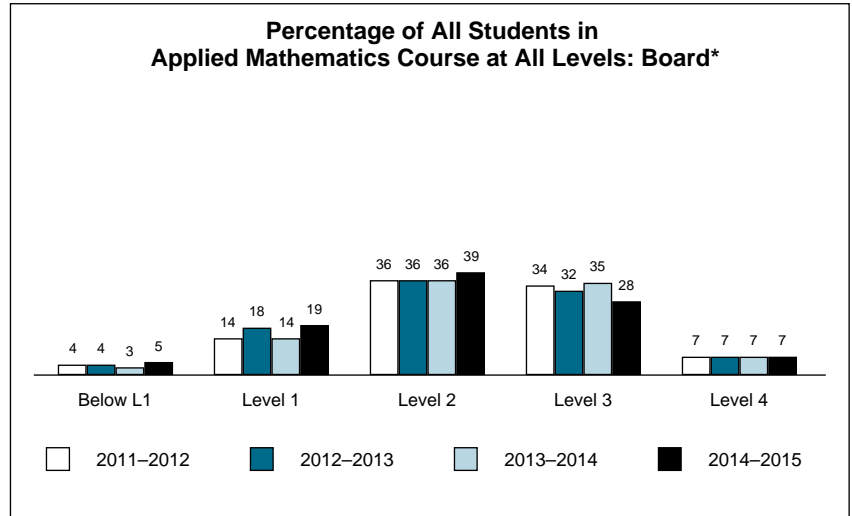
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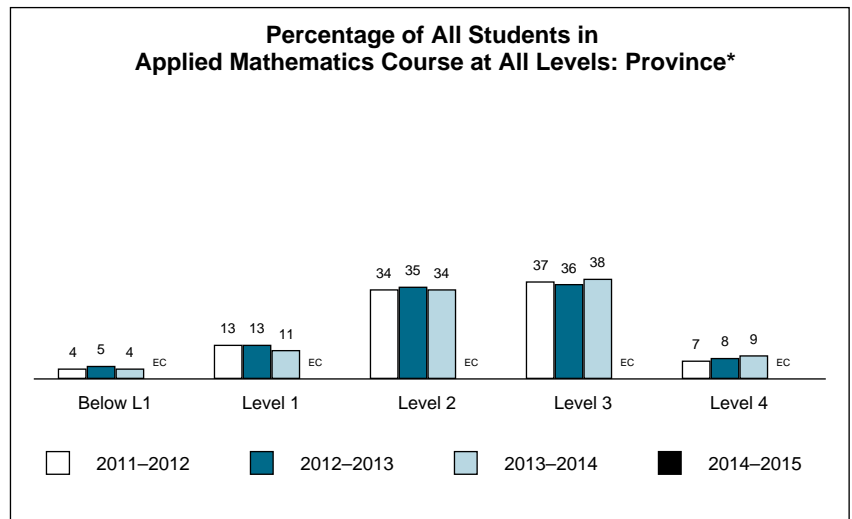
Results over Time, 2011–2012 to 2014–2015

Applied Mathematics Course for All Students

Board*				
Year	'11-'12	'12-'13	'13-'14	'14-'15
<i>Number of Students</i>	552	523	464	416
Level 4	7%	7%	7%	7%
Level 3	34%	32%	35%	28%
Level 2	36%	36%	36%	39%
Level 1	14%	18%	14%	19%
Below Level 1	4%	4%	3%	5%
<i>Participating Students</i>	95%	96%	95%	98%
No Data	5%	4%	5%	2%
At or Above Provincial Standard (Levels 3 and 4)†	41%	39%	42%	35%



Province*				
Year	'11-'12	'12-'13	'13-'14	'14-'15
<i>Number of Students</i>	41 799	39 881	38 181	EC
Level 4	7%	8%	9%	EC
Level 3	37%	36%	38%	EC
Level 2	34%	35%	34%	EC
Level 1	13%	13%	11%	EC
Below Level 1	4%	5%	4%	EC
<i>Participating Students</i>	95%	96%	96%	EC
No Data	5%	4%	4%	EC
At or Above Provincial Standard (Levels 3 and 4)†	44%	44%	47%	EC



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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.

Grade 9 Assessment of Mathematics, 2014–2015

Contextual Information over Time: Academic Mathematics Course

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

2010–2011 2011–2012 2012–2013 2013–2014 2014–2015

Enrolment

Number of students in academic mathematics course	1 277	1 132	1 133	1 080	1 036
Number of classes with students in academic mathematics course	51	46	49	47	41
Number of schools with academic mathematics classes	9	9	9	9	9

Participation in the Assessment

Students who participated in the assessment	98%	99%	99%	99%	99%
Participating students who received one or more accommodations*	1%	2%	4%	5%	4%
Participating students who received one or more special provisions*	0%	0%	<1%	<1%	0%
Students who did not complete any part of the assessment (no data)*	2%	1%	1%	1%	1%

Gender[†] Based on number of students enrolled

Female	53%	53%	55%	55%	52%
Male	47%	47%	45%	45%	48%
Gender not specified	0%	0%	0%	0%	<1%

Student Status[†] Based on number of students enrolled

English language learners*	0%	0%	<1%	<1%	0%
Students with special education needs (excluding gifted)*	4%	5%	6%	7%	6%

Semester/Full Year Based on number of students enrolled

First-semester course	51%	47%	50%	48%	45%
Second-semester course	49%	53%	50%	52%	55%
Full-year course	0%	0%	0%	0%	0%

Language and School Background^{††}

Based on Student Questionnaire data

Number of Respondents:	<i>1 156</i>	<i>1 018</i>	<i>1 003</i>	<i>942</i>	<i>831</i>
Speak only or mostly a language other than English at home	4%	2%	3%	2%	3%
Speak another language as often as English at home	8%	6%	6%	7%	6%
Attended three or more elementary schools from kindergarten to Grade 8	22%	24%	24%	21%	20%

* See the Explanation of Terms.

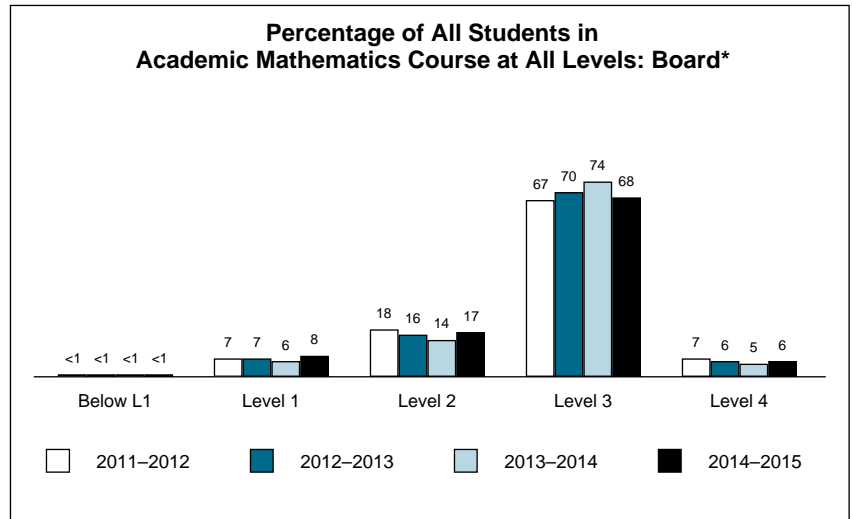
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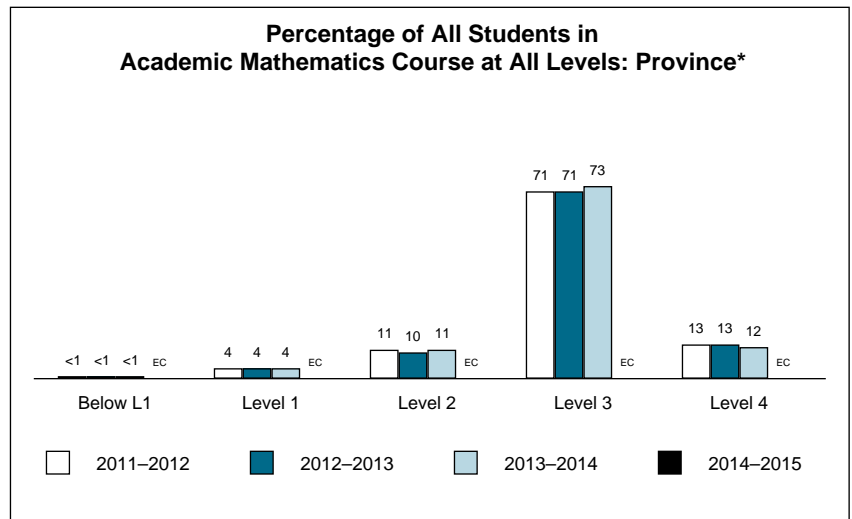
Results over Time, 2011–2012 to 2014–2015

Academic Mathematics Course for All Students

Board*				
Year	'11-'12	'12-'13	'13-'14	'14-'15
<i>Number of Students</i>	1 132	1 133	1 080	1 036
Level 4	7%	6%	5%	6%
Level 3	67%	70%	74%	68%
Level 2	18%	16%	14%	17%
Level 1	7%	7%	6%	8%
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)†	74%	76%	80%	74%



Province*				
Year	'11-'12	'12-'13	'13-'14	'14-'15
<i>Number of Students</i>	97 741	97 158	95 914	EC
Level 4	13%	13%	12%	EC
Level 3	71%	71%	73%	EC
Level 2	11%	10%	11%	EC
Level 1	4%	4%	4%	EC
Below Level 1	<1%	<1%	<1%	EC
<i>Participating Students</i>	99%	99%	99%	EC
No Data	1%	1%	1%	EC
At or Above Provincial Standard (Levels 3 and 4)†	84%	84%	85%	EC

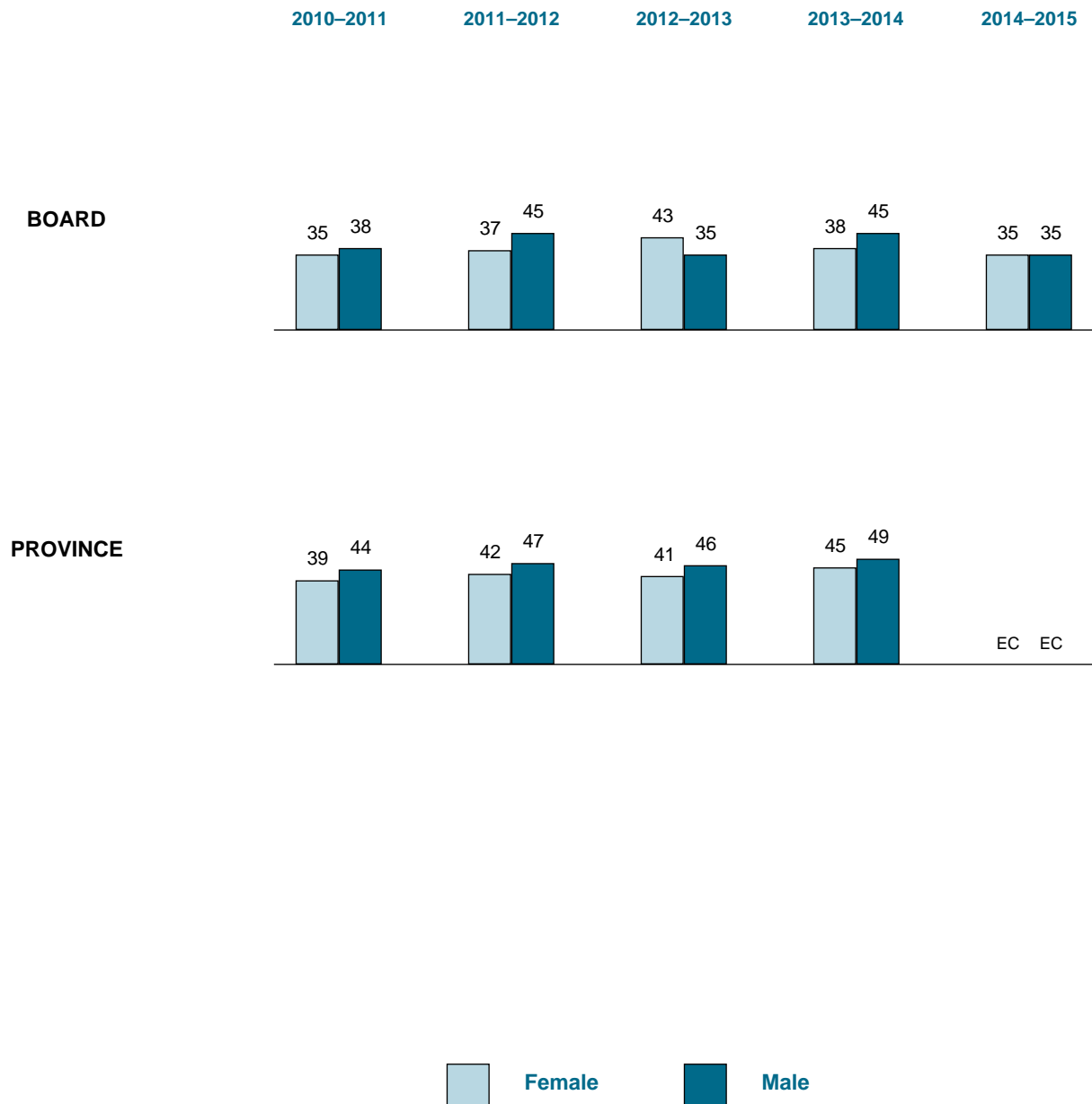


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† These percentages are based on the actual number of students and cannot be calculated simply by adding the rounded percentages of students at Levels 3 and 4.

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**



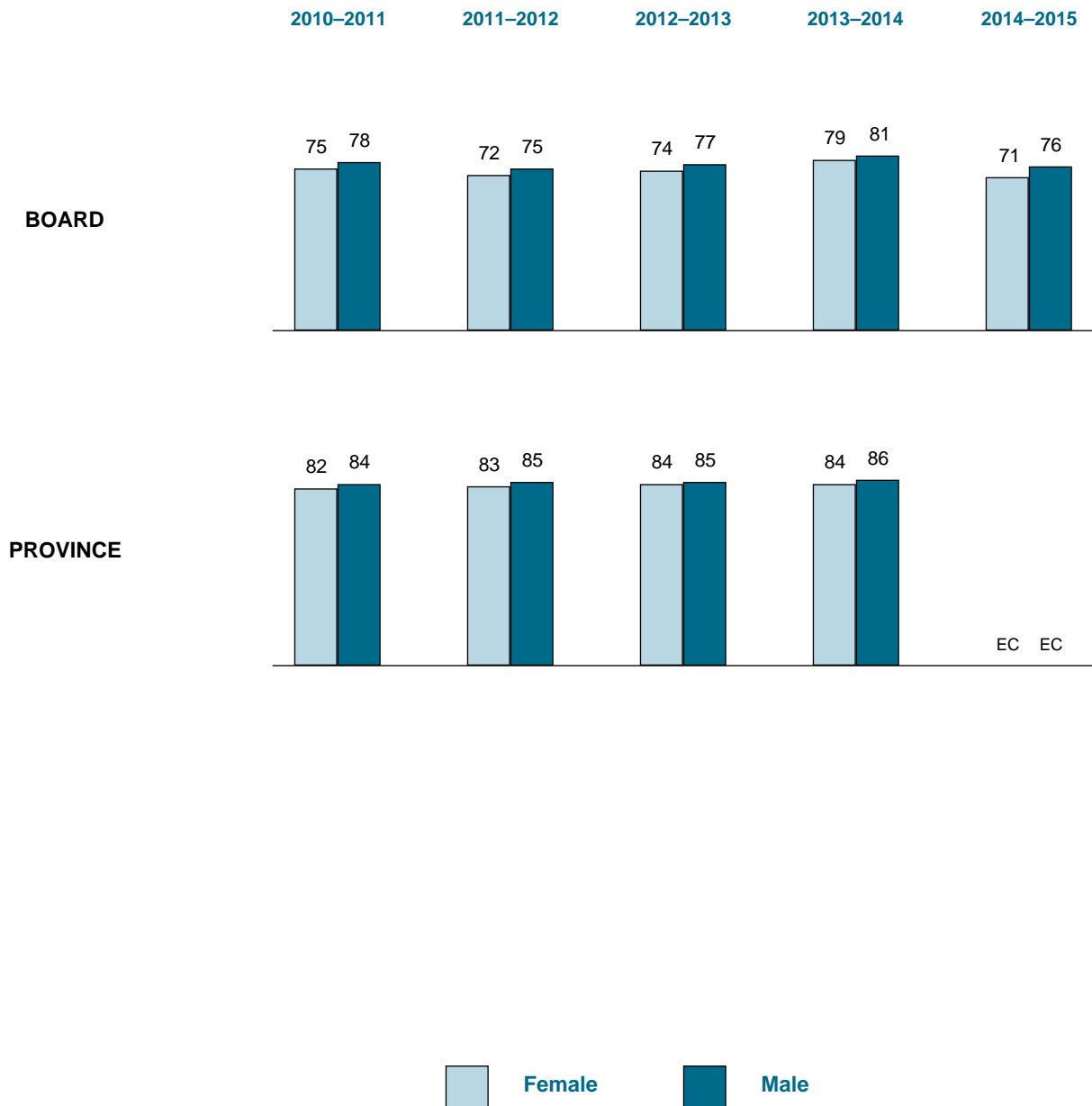
Total Number of Students in Applied Mathematics Course†

	2010-2011		2011-2012		2012-2013		2013-2014		2014-2015	
	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Board	284	332	254	298	237	286	192	272	182	234
Province	19 721	24 374	18 563	23 236	17 695	22 181	16 662	21 519	EC	EC

† 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 †

	2010-2011		2011-2012		2012-2013		2013-2014		2014-2015	
	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Board	683	594	598	534	618	515	597	483	536	499
Province	50 814	48 464	50 134	47 607	49 986	47 171	49 157	46 757	EC	EC

† Includes only students for whom gender data were available.

Grade 9 Assessment of Mathematics, 2014–2015, 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.		122
I am good at mathematics.		110
I am able to answer difficult mathematics questions.		73
Mathematics is one of my favourite subjects.		67
I understand most of the mathematics I am taught.		191
Mathematics is an easy subject.		57
I do my best in mathematics class.		290
The mathematics I learn now is useful for everyday life.		94
The mathematics I learn now helps me do work in other subjects.		146
I need to do well in mathematics to study what I want later.		163
I need to keep taking mathematics for the kind of job I want after I leave school.		138





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)		21
algebra (e.g., solving equations, simplifying expressions with polynomials)		39
linear relations (e.g., scatter plots, lines of best fit)		56
measurement (e.g., perimeter, area, volume)		92
geometry (e.g., angles, parallel lines)		45

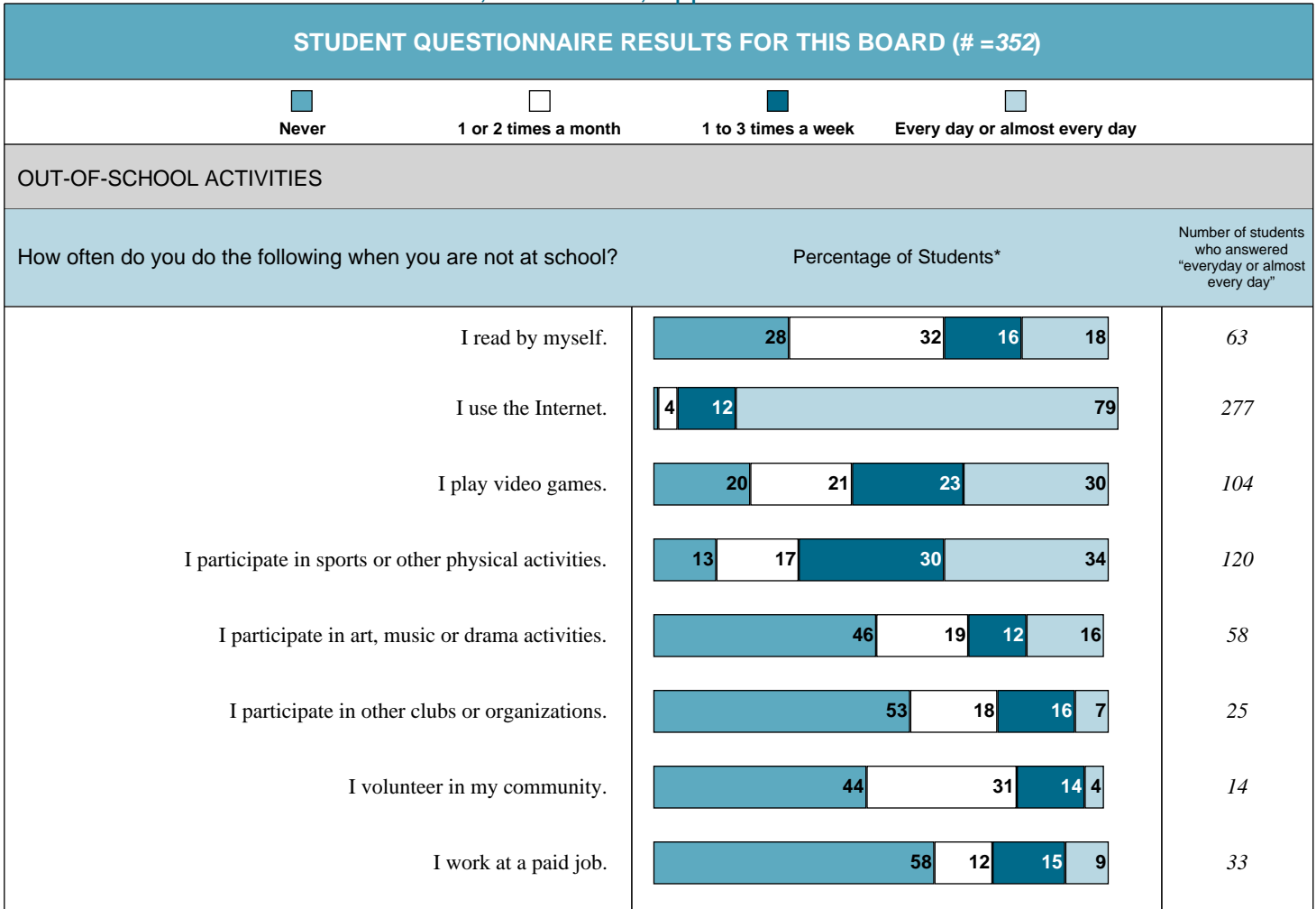
* Percentages may not add up to 100, due to rounding or to ambiguous or blank responses. Where there is no number in a bar, the percentage of responses is smaller than four.

Grade 9 Assessment of Mathematics, 2014–2015, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# =352)						
		 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.		19	53	17	4	15
I check my mathematics answers to see if they make sense.		8	34	38	14	50
I apply new mathematics concepts to real-life problems.		35	41	12		11
I take time to discuss my mathematics assignments with my classmates.		35	39	16	4	14
I look for more than one way to solve mathematics problems.		13	41	31	9	32
How often do you complete your mathematics homework?		Percentage of Students*				Number of students
I am not usually assigned any mathematics homework				13		47
Never or almost never			6			20
Sometimes			26			91
Often				33		116
Always				16		57

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

Grade 9 Assessment of Mathematics, 2014–2015, Applied Course



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

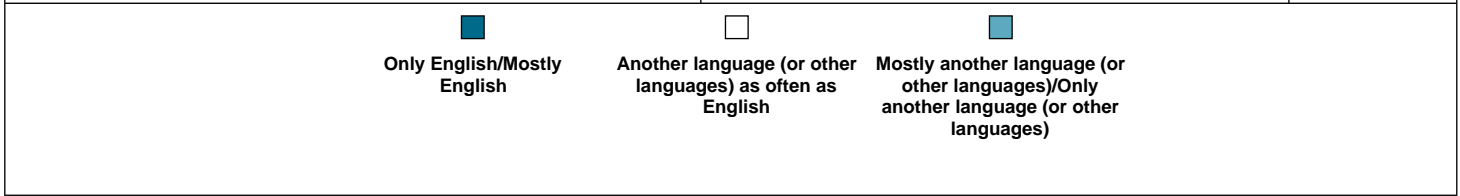
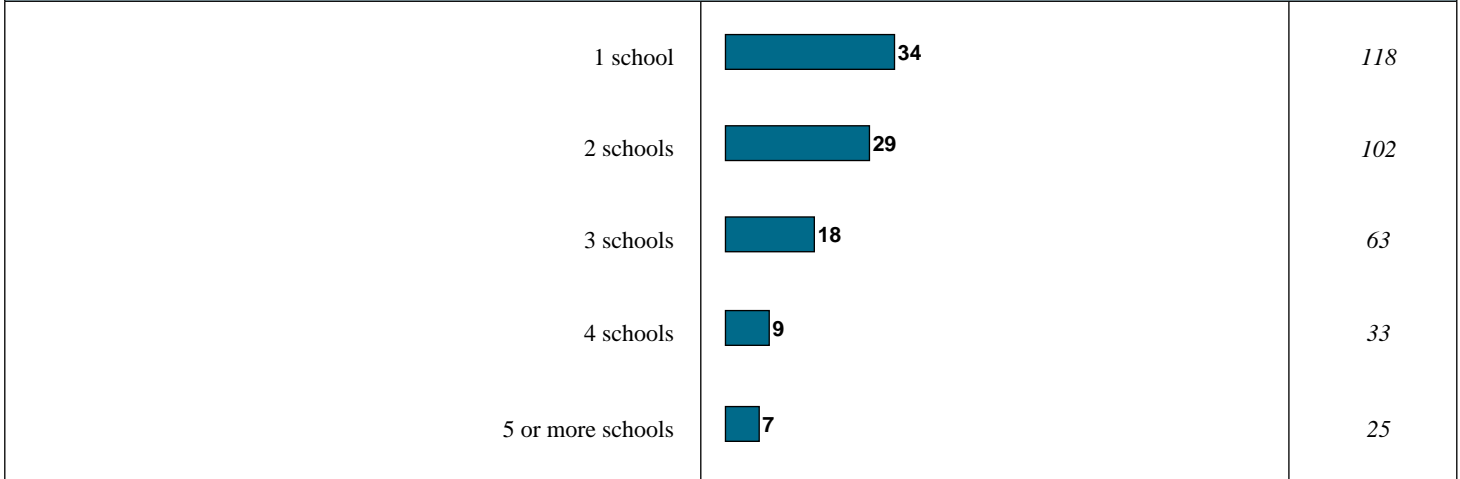
Grade 9 Assessment of Mathematics, 2014–2015, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# =352)

SCHOOLS ATTENDED

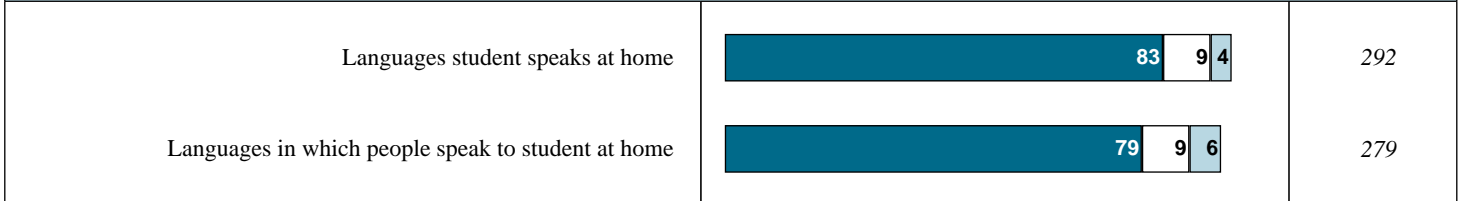
How many schools did you attend from kindergarten to Grade 8?

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 up to 100, due to rounding or to ambiguous or blank responses. Where there is no number in a bar, the percentage of responses is smaller than four.

Grade 9 Assessment of Mathematics, 2014–2015, 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	 43	152
No	 1	3
Don't know	 53	185
<i>Total number of students:</i>		152
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	 91	138
No	 9	14
<i>Total number of students:</i>		152
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	 75	114
No	 9	14
Undecided	 16	24

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

† 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, 2014–2015, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 352)	Female* (# = 156)	Male* (# = 196)	All Students (# = EC)	Female* (# = EC)	Male* (# = EC)
STUDENTS' ATTITUDES TOWARD MATHEMATICS						
Percentage of students indicating they "agree" or "strongly agree" with the following statements: †						
I like mathematics.	35%	26%	42%	EC	EC	EC
I am good at mathematics.	31%	28%	34%	EC	EC	EC
I am able to answer difficult mathematics questions.	21%	13%	27%	EC	EC	EC
Mathematics is one of my favourite subjects.	19%	13%	24%	EC	EC	EC
I understand most of the mathematics I am taught.	54%	56%	53%	EC	EC	EC
Mathematics is an easy subject.	16%	12%	19%	EC	EC	EC
I do my best in mathematics class.	82%	85%	80%	EC	EC	EC
The mathematics I learn now is useful for everyday life.	27%	23%	30%	EC	EC	EC
The mathematics I learn now helps me do work in other subjects.	41%	38%	44%	EC	EC	EC
I need to do well in mathematics to study what I want later.	46%	44%	48%	EC	EC	EC
I need to keep taking mathematics for the kind of job I want after I leave school.	39%	41%	38%	EC	EC	EC
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)	37%	30%	43%	EC	EC	EC
algebra (e.g., solving equations, simplifying expressions with polynomials)	36%	38%	33%	EC	EC	EC
linear relations (e.g., scatter plots, lines of best fit)	47%	44%	49%	EC	EC	EC
measurement (e.g., perimeter, area, volume)	59%	60%	59%	EC	EC	EC
geometry (e.g., angles, parallel lines)	39%	33%	43%	EC	EC	EC

* Includes only 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, 2014–2015, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 352)	Female* (# = 156)	Male* (# = 196)	All Students (# = EC)	Female* (# = EC)	Male* (# = EC)
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%	EC	EC	EC
I check my mathematics answers to see if they make sense.	14%	17%	12%	EC	EC	EC
I apply new mathematics concepts to real-life problems.	3%	3%	4%	EC	EC	EC
I take time to discuss my mathematics assignments with my classmates.	4%	4%	4%	EC	EC	EC
I look for more than one way to solve mathematics problems.	9%	5%	12%	EC	EC	EC
Percentage of students indicating they complete their mathematics homework at the following frequencies: ‡						
I am not usually assigned any mathematics homework	13%	14%	13%	EC	EC	EC
Never or almost never	6%	4%	7%	EC	EC	EC
Sometimes	26%	25%	27%	EC	EC	EC
Often	33%	32%	34%	EC	EC	EC
Always	16%	20%	13%	EC	EC	EC

* Includes only 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 or blank responses.

Grade 9 Assessment of Mathematics, 2014–2015, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 352)	Female* (# = 156)	Male* (# = 196)	All Students (# = EC)	Female* (# = EC)	Male* (# = EC)
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%	28%	10%	EC	EC	EC
I use the Internet.	79%	78%	80%	EC	EC	EC
I play video games.	30%	10%	45%	EC	EC	EC
I participate in sports or other physical activities.	34%	26%	41%	EC	EC	EC
I participate in art, music or drama activities.	16%	26%	9%	EC	EC	EC
I participate in other clubs or organizations.	7%	7%	7%	EC	EC	EC
I volunteer in my community.	4%	5%	3%	EC	EC	EC
I work at a paid job.	9%	8%	10%	EC	EC	EC
SCHOOLS ATTENDED						
Percentage of students indicating the number of schools they attended from kindergarten to Grade 8: ‡						
1 school	34%	31%	36%	EC	EC	EC
2 schools	29%	29%	29%	EC	EC	EC
3 schools	18%	21%	15%	EC	EC	EC
4 schools	9%	10%	9%	EC	EC	EC
5 or more schools	7%	8%	6%	EC	EC	EC
LANGUAGES SPOKEN						
Percentage of students indicating that they speak the following languages at home: ‡						
Only English/Mostly English	83%	81%	85%	EC	EC	EC
Another language (or other languages) as often as English	9%	11%	8%	EC	EC	EC
Mostly another language (or other languages)/ Only another language (or other languages)	4%	6%	3%	EC	EC	EC
Percentage of students indicating the languages people speak to them at home: ‡						
Only English/Mostly English	79%	79%	79%	EC	EC	EC
Another language (or other languages) as often as English	9%	8%	9%	EC	EC	EC
Mostly another language (or other languages)/ Only another language (or other languages)	6%	8%	4%	EC	EC	EC

* Includes only 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 or blank responses.

Grade 9 Assessment of Mathematics, 2014–2015, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 352)	Female* (# = 156)	Male* (# = 196)	All Students (# = EC)	Female* (# = EC)	Male* (# = EC)
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	43%	45%	42%	EC	EC	EC
No	1%	1%	1%	EC	EC	EC
Don't know	53%	53%	53%	EC	EC	EC
Percentage of students indicating they were told how much the assessment will count as part of their class mark: †‡						
	All Students (# = 152)	Female* (# = 70)	Male* (# = 82)	All Students (# = EC)	Female* (# = EC)	Male* (# = EC)
Yes	91%	91%	90%	EC	EC	EC
No	9%	9%	10%	EC	EC	EC
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 (# = 152)	Female* (# = 70)	Male* (# = 82)	All Students (# = EC)	Female* (# = EC)	Male* (# = EC)
Yes	75%	74%	76%	EC	EC	EC
No	9%	11%	7%	EC	EC	EC
Undecided	16%	14%	17%	EC	EC	EC

* Includes only students for whom gender data were available.

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

‡ 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, 2014–2015, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# =831)

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.	20	29	51	425
I am good at mathematics.	14	33	52	432
I am able to answer difficult mathematics questions.	16	38	45	370
Mathematics is one of my favourite subjects.	44	18	36	300
I understand most of the mathematics I am taught.	8	18	72	601
Mathematics is an easy subject.	36	39	24	197
I do my best in mathematics class.	8		88	735
The mathematics I learn now is useful for everyday life.	38	33	27	221
The mathematics I learn now helps me do work in other subjects.	21	26	51	420
I need to do well in mathematics to study what I want later.	12	28	57	475
I need to keep taking mathematics for the kind of job I want after I leave school.	15	27	54	447















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)		30	42	21	175
algebra (e.g., solving equations, simplifying expressions with polynomials)	4	27	38	27	223
linear relations (e.g., scatter plots, lines of best fit)	6	30	43	16	136
analytic geometry (e.g., slope, y-intercept, equations of lines)	9	29	37	19	156
measurement (e.g., perimeter, area, volume)		19	39	33	275
geometry (e.g., angles, parallel lines)	4	24	37	30	248

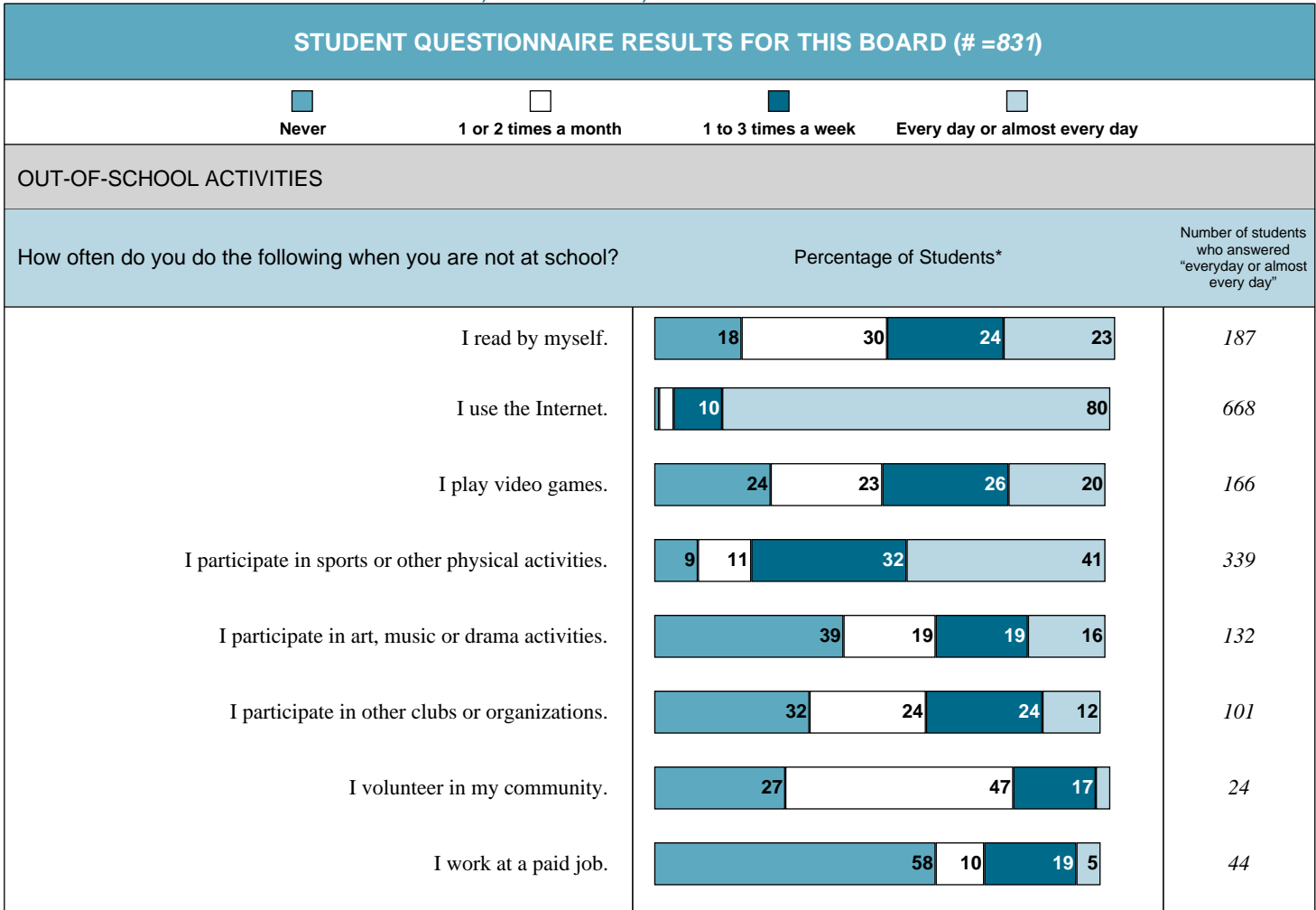
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Grade 9 Assessment of Mathematics, 2014–2015, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# =831)				
	 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.				68
I check my mathematics answers to see if they make sense.				197
I apply new mathematics concepts to real-life problems.				34
I take time to discuss my mathematics assignments with my classmates.				54
I look for more than one way to solve mathematics problems.				88
How often do you complete your mathematics homework?		Percentage of Students*		Number of students
I am not usually assigned any mathematics homework				23
Never or almost never				25
Sometimes				155
Often				299
Always				266






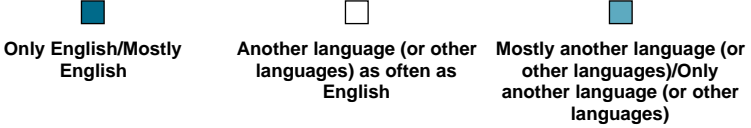


* Percentages may not add up to 100, due to rounding or to ambiguous or blank responses. Where there is no number in a bar, the percentage of responses is smaller than four.

Grade 9 Assessment of Mathematics, 2014–2015, Academic Course



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

Grade 9 Assessment of Mathematics, 2014–2015, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# =831)			
SCHOOLS ATTENDED			
How many schools did you attend from kindergarten to Grade 8?	Percentage of Students*		Number of students
1 school	 44		368
2 schools	 29		243
3 schools	 10		86
4 schools	 5		43
5 or more schools	 4		37
			
LANGUAGES SPOKEN			Number of students who answered "only English" or "mostly English"
	Percentage of Students*		
Languages student speaks at home	 85 6		708
Languages in which people speak to student at home	 80 7 5		666

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

Grade 9 Assessment of Mathematics, 2014–2015, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# =831)		
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	66	545
No	<1	2
Don't know	27	226
<i>Total number of students:</i>		545
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	92	502
No	8	42
<i>Total number of students:</i>		545
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	79	428
No	9	49
Undecided	12	64

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

† 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, 2014–2015, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 831)	Female* (# = 439)	Male* (# = 391)	All Students (# = EC)	Female* (# = EC)	Male* (# = EC)
STUDENTS' ATTITUDES TOWARD MATHEMATICS						
Percentage of students indicating they "agree" or "strongly agree" with the following statements: †						
I like mathematics.	51%	46%	57%	EC	EC	EC
I am good at mathematics.	52%	47%	58%	EC	EC	EC
I am able to answer difficult mathematics questions.	45%	37%	53%	EC	EC	EC
Mathematics is one of my favourite subjects.	36%	31%	42%	EC	EC	EC
I understand most of the mathematics I am taught.	72%	71%	74%	EC	EC	EC
Mathematics is an easy subject.	24%	22%	26%	EC	EC	EC
I do my best in mathematics class.	88%	93%	84%	EC	EC	EC
The mathematics I learn now is useful for everyday life.	27%	23%	30%	EC	EC	EC
The mathematics I learn now helps me do work in other subjects.	51%	49%	52%	EC	EC	EC
I need to do well in mathematics to study what I want later.	57%	56%	58%	EC	EC	EC
I need to keep taking mathematics for the kind of job I want after I leave school.	54%	52%	56%	EC	EC	EC
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)	63%	57%	71%	EC	EC	EC
algebra (e.g., solving equations, simplifying expressions with polynomials)	65%	65%	65%	EC	EC	EC
linear relations (e.g., scatter plots, lines of best fit)	59%	54%	65%	EC	EC	EC
analytic geometry (e.g., slope, y-intercept, equations of lines)	55%	50%	61%	EC	EC	EC
measurement (e.g., perimeter, area, volume)	72%	68%	76%	EC	EC	EC
geometry (e.g., angles, parallel lines)	67%	61%	74%	EC	EC	EC

* Includes only 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, 2014–2015, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 831)	Female* (# = 439)	Male* (# = 391)	All Students (# = EC)	Female* (# = EC)	Male* (# = EC)
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.	8%	8%	9%	EC	EC	EC
I check my mathematics answers to see if they make sense.	24%	26%	21%	EC	EC	EC
I apply new mathematics concepts to real-life problems.	4%	3%	5%	EC	EC	EC
I take time to discuss my mathematics assignments with my classmates.	6%	7%	6%	EC	EC	EC
I look for more than one way to solve mathematics problems.	11%	9%	12%	EC	EC	EC
Percentage of students indicating they complete their mathematics homework at the following frequencies: ‡						
I am not usually assigned any mathematics homework	3%	4%	2%	EC	EC	EC
Never or almost never	3%	2%	4%	EC	EC	EC
Sometimes	19%	16%	22%	EC	EC	EC
Often	36%	32%	40%	EC	EC	EC
Always	32%	37%	27%	EC	EC	EC

* Includes only 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 or blank responses.

Grade 9 Assessment of Mathematics, 2014–2015, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 831)	Female* (# = 439)	Male* (# = 391)	All Students (# = EC)	Female* (# = EC)	Male* (# = EC)
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.	23%	29%	15%	EC	EC	EC
I use the Internet.	80%	82%	78%	EC	EC	EC
I play video games.	20%	3%	39%	EC	EC	EC
I participate in sports or other physical activities.	41%	31%	52%	EC	EC	EC
I participate in art, music or drama activities.	16%	21%	10%	EC	EC	EC
I participate in other clubs or organizations.	12%	10%	15%	EC	EC	EC
I volunteer in my community.	3%	4%	1%	EC	EC	EC
I work at a paid job.	5%	6%	4%	EC	EC	EC
SCHOOLS ATTENDED						
Percentage of students indicating the number of schools they attended from kindergarten to Grade 8: ‡						
1 school	44%	41%	48%	EC	EC	EC
2 schools	29%	31%	28%	EC	EC	EC
3 schools	10%	11%	10%	EC	EC	EC
4 schools	5%	5%	5%	EC	EC	EC
5 or more schools	4%	4%	4%	EC	EC	EC
LANGUAGES SPOKEN						
Percentage of students indicating that they speak the following languages at home: ‡						
Only English/Mostly English	85%	84%	86%	EC	EC	EC
Another language (or other languages) as often as English	6%	6%	5%	EC	EC	EC
Mostly another language (or other languages)/ Only another language (or other languages)	3%	2%	4%	EC	EC	EC
Percentage of students indicating the languages people speak to them at home: ‡						
Only English/Mostly English	80%	80%	80%	EC	EC	EC
Another language (or other languages) as often as English	7%	7%	6%	EC	EC	EC
Mostly another language (or other languages)/ Only another language (or other languages)	5%	4%	7%	EC	EC	EC

* Includes only 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 or blank responses.

Grade 9 Assessment of Mathematics, 2014–2015, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 831)	Female* (# = 439)	Male* (# = 391)	All Students (# = EC)	Female* (# = EC)	Male* (# = EC)
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	66%	69%	61%	EC	EC	EC
No	<1%	<1%	<1%	EC	EC	EC
Don't know	27%	22%	33%	EC	EC	EC
Percentage of students indicating they were told how much the assessment will count as part of their class mark: †‡						
	All Students (# = 545)	Female* (# = 304)	Male* (# = 240)	All Students (# = EC)	Female* (# = EC)	Male* (# = EC)
Yes	92%	91%	93%	EC	EC	EC
No	8%	8%	7%	EC	EC	EC
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 (# = 545)	Female* (# = 304)	Male* (# = 240)	All Students (# = EC)	Female* (# = EC)	Male* (# = EC)
Yes	79%	78%	80%	EC	EC	EC
No	9%	9%	9%	EC	EC	EC
Undecided	12%	12%	11%	EC	EC	EC

* Includes only students for whom gender data were available.

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

‡ 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, 2014–2015

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 (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	"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.
EC	Due to exceptional circumstances in 2015, provincial data are unavailable to report provincial results.
NP	Non-participating indicates that due to exceptional circumstances, some or all of the school's or board's students did not participate in 2015.