



# School Board Report



## Grade 9 Assessment of Mathematics, 2012–2013

### Board: Peel District School Board (66125)

On behalf of EQAO, I am pleased to provide you with the results of the 2012–2013 Grade 9 Assessment of Mathematics.

This report provides the 2013 school and board results as well as results for previous years, so you can track progress over time. You'll also find demographic and attitudinal information about schools, which provides context for a deeper analysis of 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 data continue to inform board improvement planning strategies and provide important evidence of learning at the local school level. This evidence helps educators and parents engage in meaningful conversations about student achievement. The data also allow school communities to identify strengths and opportunities for improvement so they can continue to make evidence-based decisions in their planning.

We continue to advocate the use of EQAO data in combination with classroom-generated results and other information sources to develop strategies and action plans that will make a measurable difference in learning outcomes.

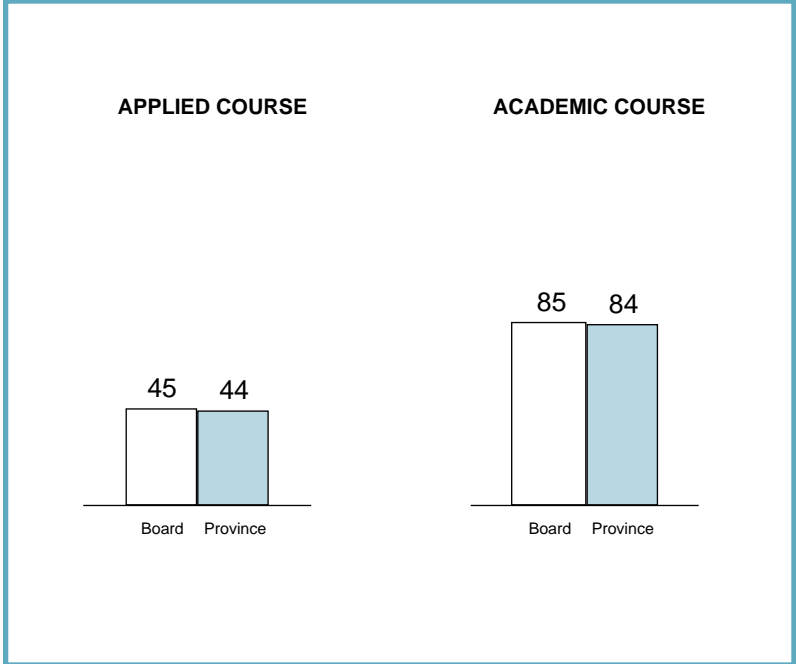
At EQAO, we are pleased to continue our partnership with you as you help students reach their full potential. I trust you will continue to find our reports to be a rich source of information as you turn knowledge into action for the benefit of your students and community.

Sincerely,

*Bruce Rodrigues*  
 Chief Executive Officer  
 Education Quality and Accountability Office

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### PERCENTAGE OF ALL STUDENTS AT OR ABOVE THE PROVINCIAL STANDARD (LEVELS 3 AND 4), 2012–2013



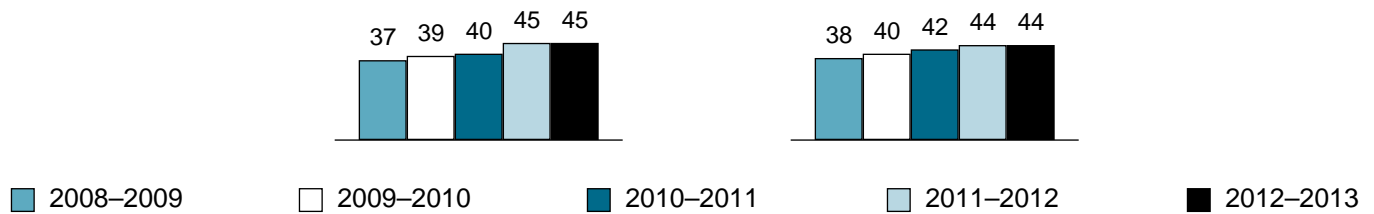
Grade 9 Assessment of Mathematics, 2012–2013

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

APPLIED MATHEMATICS

Board

Province



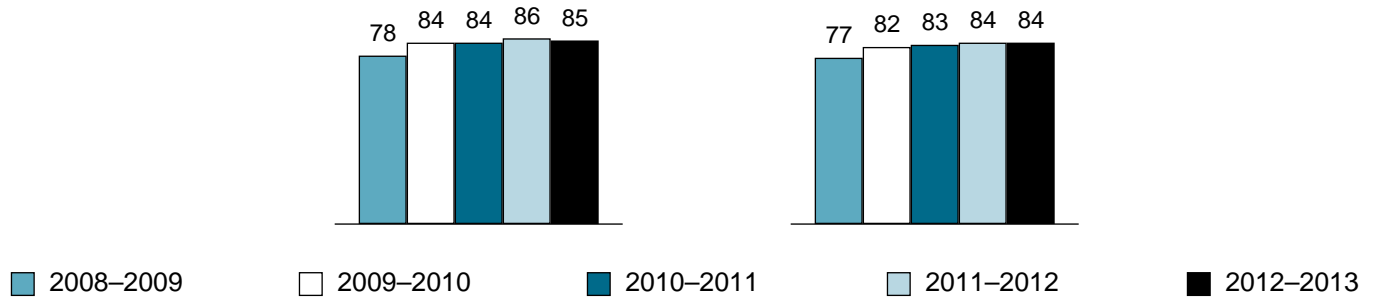
Total Number of Students

	<u>2008–2009</u>	<u>2009–2010</u>	<u>2010–2011</u>	<u>2011–2012</u>	<u>2012–2013</u>
Board	2 786	2 851	2 684	2 626	2 395
Province	48 482	47 566	44 095	41 799	39 881

ACADEMIC MATHEMATICS

Board

Province



Total Number of Students

	<u>2008–2009</u>	<u>2009–2010</u>	<u>2010–2011</u>	<u>2011–2012</u>	<u>2012–2013</u>
Board	7 483	7 336	7 446	7 577	7 614
Province	100 992	101 268	99 278	97 741	97 158

## 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. Results are not reported publicly for schools where fewer than 10 students fully participated in 2012-2013, or fewer than 15 students fully participated prior to 2012-2013 because it might be possible to identify individual students.

## 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](http://www.eqao.com).

## Grade 9 Assessment of Mathematics, 2012–2013, Applied Course

**Contextual Information**

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

	Board		Province	
<b>Enrolment</b>				
Number of students in applied mathematics course	2 395		39 881	
Number of classes with students in applied mathematics course	164		2 610	
Number of schools with applied mathematics classes	37		721	
	Number	Percent	Number	Percent
<b>Participation in the Assessment</b>				
Students who participated in the assessment	2 318	97%	38 215	96%
Participating students who received one or more accommodations*	565	24%	11 333	30%
Participating students who received one or more special provisions*	473	20%	1 846	5%
Students who did not complete any part of the assessment (no data)*	77	3%	1 666	4%
<b>Gender<sup>†</sup> Based on number of students enrolled</b>				
Female	1 044	44%	17 695	44%
Male	1 351	56%	22 181	56%
Gender not specified	0	0%	5	<1%
<b>Student Status<sup>†</sup> Based on number of students enrolled</b>				
English language learners*	749	31%	3 173	8%
Students with special education needs (excluding gifted)*	633	26%	14 361	36%
<b>Semester/Full Year Based on number of students enrolled</b>				
First-semester course	1 123	47%	18 240	46%
Second-semester course	1 200	50%	18 430	46%
Full-year course	72	3%	3 211	8%
<b>Language and School Background<sup>††</sup> Based on Student Questionnaire data</b>				
	Number of Respondents:		33 705	
	2 085			
Speak only or mostly a language other than English at home	196	9%	2 148	6%
Speak another language as often as English at home	442	21%	4 288	13%
Attended three or more elementary schools from kindergarten to Grade 8	1 312	63%	14 299	42%

\* See the Explanation of Terms.

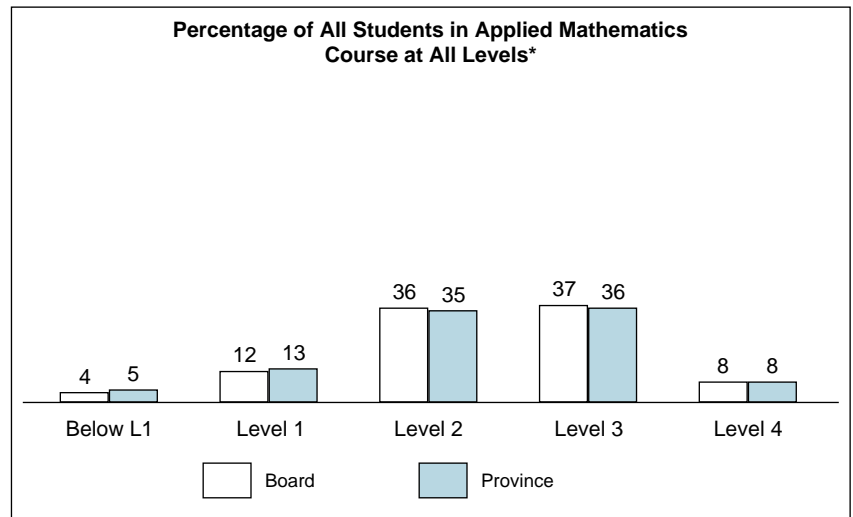
† Contextual data pertaining to "gender" and "student status" are provided by schools and/or boards through the Student Data Collection process. Some data may be missing because they were not provided by the school or the board.

†† 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, 2012–2013, Applied Course

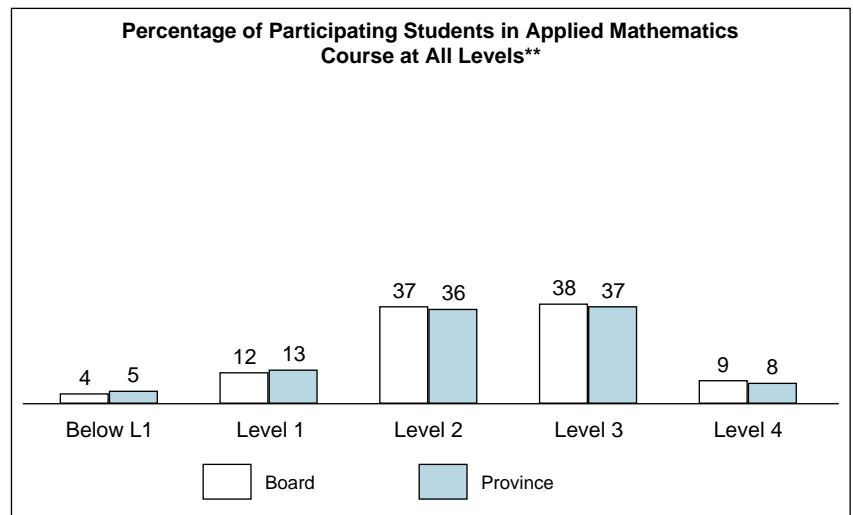
Results for All Students

All Students*			
Number of Students	Board 2 395		Province 39 881
	#	%	%
Level 4	198	8%	8%
Level 3	884	37%	36%
Level 2	856	36%	35%
Level 1	283	12%	13%
Below Level 1	97	4%	5%
Participating Students	2 318	97%	96%
No Data	77	3%	4%
At or Above Provincial Standard (Levels 3 and 4) †		45%	44%



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

Participating Students**			
Number of Students	Board 2 318		Province 38 215
	#	%	%
Level 4	198	9%	8%
Level 3	884	38%	37%
Level 2	856	37%	36%
Level 1	283	12%	13%
Below Level 1	97	4%	5%
At or Above Provincial Standard (Levels 3 and 4) †		47%	45%



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

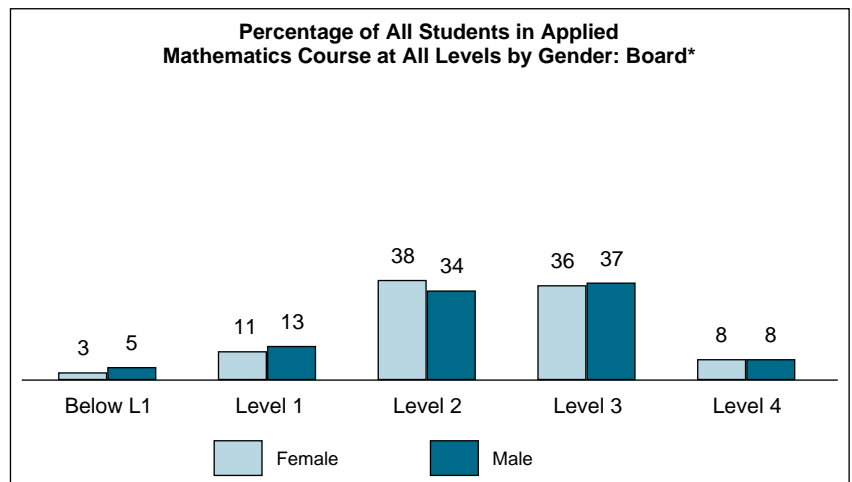
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† These percentages are based on the actual number of students and cannot be calculated simply by adding the rounded percentages of students at Levels 3 and 4.

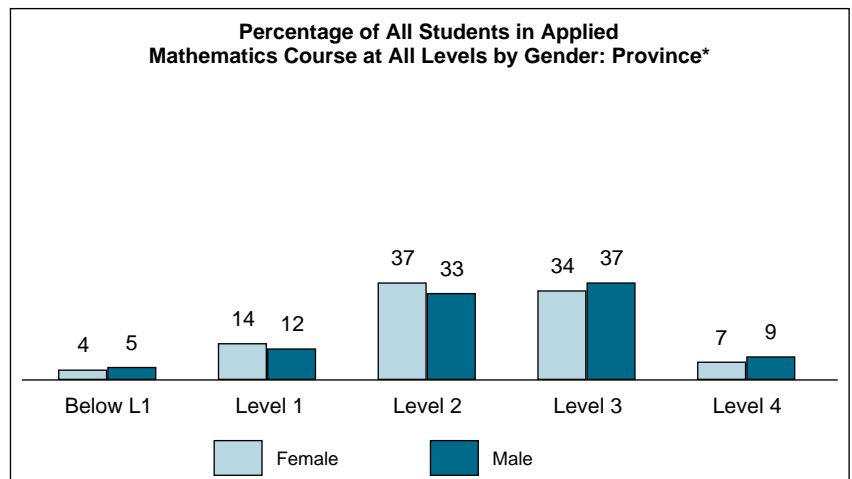
Grade 9 Assessment of Mathematics, 2012–2013, Applied Course

Results by Gender<sup>††</sup>

All Students: Board by Gender*				
Number of Students	Female 1 044		Male 1 351	
	#	%	#	%
Level 4	88	8%	110	8%
Level 3	380	36%	504	37%
Level 2	398	38%	458	34%
Level 1	114	11%	169	13%
Below Level 1	32	3%	65	5%
Participating Students	1 012	97%	1 306	97%
No Data	32	3%	45	3%
At or Above Provincial Standard (Levels 3 and 4) <sup>†</sup>	45%		45%	



All Students: Province by Gender*				
Number of Students	Female 17 695		Male 22 181	
	#	%	#	%
Level 4	1 182	7%	1 989	9%
Level 3	6 060	34%	8 141	37%
Level 2	6 555	37%	7 345	33%
Level 1	2 443	14%	2 699	12%
Below Level 1	728	4%	1 068	5%
Participating Students	16 968	96%	21 242	96%
No Data	727	4%	939	4%
At or Above Provincial Standard (Levels 3 and 4) <sup>†</sup>	41%		46%	



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<sup>†</sup> 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.  
<sup>††</sup> Includes only students for whom gender data were available.

## Grade 9 Assessment of Mathematics, 2012–2013, Academic Course

**Contextual Information**

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

	Board		Province	
<b>Enrolment</b>				
Number of students in academic mathematics course	7 614		97 158	
Number of classes with students in academic mathematics course	322		4 080	
Number of schools with academic mathematics classes	33		686	
	Number	Percent	Number	Percent
<b>Participation in the Assessment</b>				
Students who participated in the assessment	7 570	99%	96 375	99%
Participating students who received one or more accommodations*	187	2%	4 816	5%
Participating students who received one or more special provisions*	1 067	14%	3 286	3%
Students who did not complete any part of the assessment (no data)*	44	1%	783	1%
<b>Gender<sup>†</sup> Based on number of students enrolled</b>				
Female	3 691	48%	49 986	51%
Male	3 923	52%	47 171	49%
Gender not specified	0	0%	1	<1%
<b>Student Status<sup>†</sup> Based on number of students enrolled</b>				
English language learners*	2 154	28%	6 127	6%
Students with special education needs (excluding gifted)*	204	3%	5 747	6%
<b>Semester/Full Year Based on number of students enrolled</b>				
First-semester course	3 744	49%	43 236	45%
Second-semester course	3 533	46%	42 502	44%
Full-year course	337	4%	11 420	12%
<b>Language and School Background<sup>††</sup> Based on Student Questionnaire data</b>				
	Number of Respondents:		6 975	88 883
Speak only or mostly a language other than English at home	901	13%	7 885	9%
Speak another language as often as English at home	2 067	30%	14 023	16%
Attended three or more elementary schools from kindergarten to Grade 8	4 440	64%	33 299	37%

\* See the Explanation of Terms.

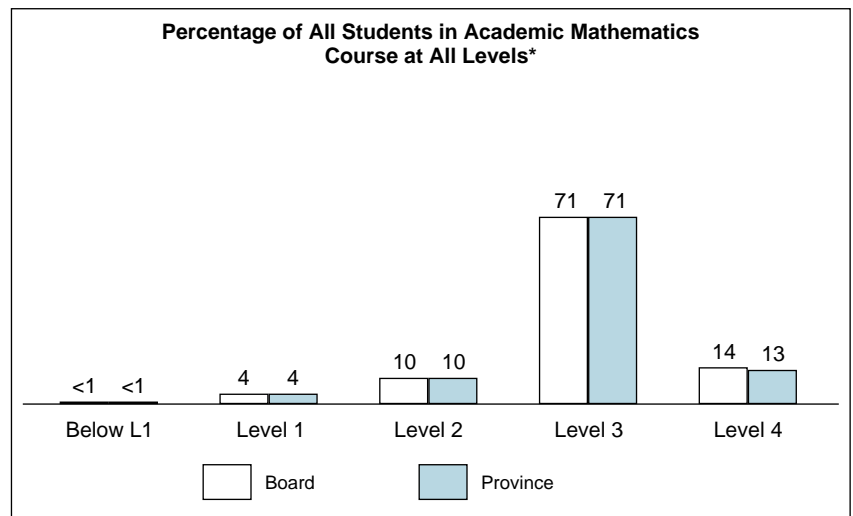
<sup>†</sup> Contextual data pertaining to "gender" and "student status" are provided by schools and/or boards through the Student Data Collection process. Some data may be missing because they were not provided by the school or the board.

<sup>††</sup> 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, 2012–2013, Academic Course

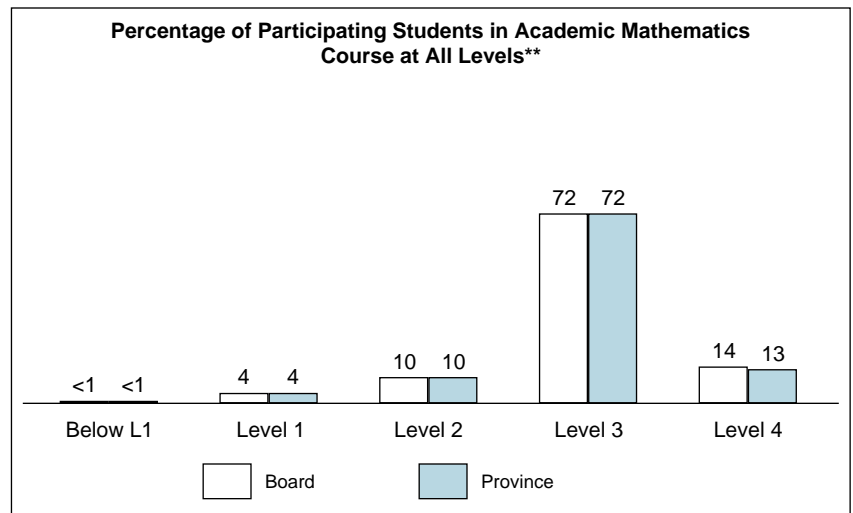
### Results for All Students

All Students*			
Number of Students	Board 7 614		Province 97 158
	#	%	%
Level 4	1 081	14%	13%
Level 3	5 423	71%	71%
Level 2	754	10%	10%
Level 1	300	4%	4%
Below Level 1	12	<1%	<1%
Participating Students	7 570	99%	99%
No Data	44	1%	1%
At or Above Provincial Standard (Levels 3 and 4) †		85%	84%



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

Participating Students**			
Number of Students	Board 7 570		Province 96 375
	#	%	%
Level 4	1 081	14%	13%
Level 3	5 423	72%	72%
Level 2	754	10%	10%
Level 1	300	4%	4%
Below Level 1	12	<1%	<1%
At or Above Provincial Standard (Levels 3 and 4) †		86%	85%



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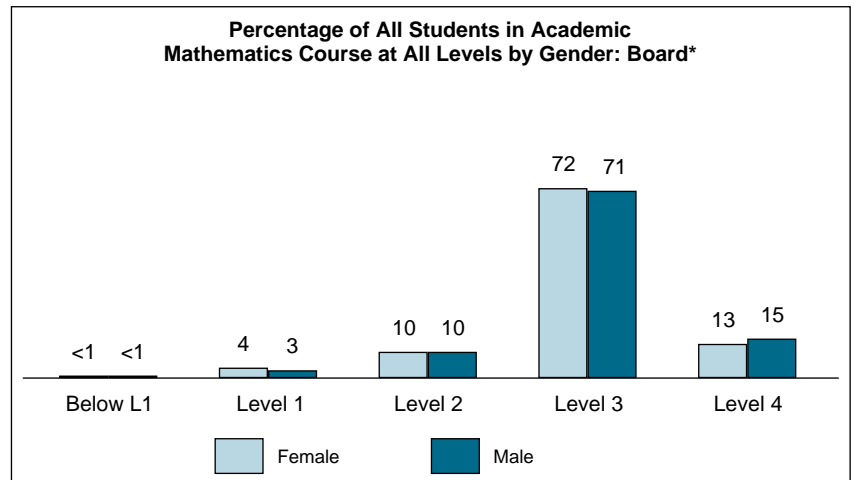
† These percentages are based on the actual number of students and cannot be calculated simply by adding the rounded percentages of students at Levels 3 and 4.



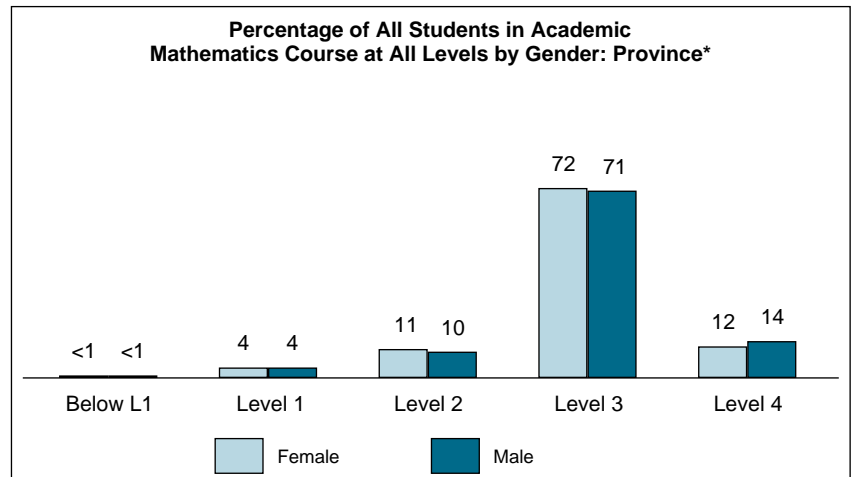
## Grade 9 Assessment of Mathematics, 2012–2013, Academic Course

### Results by Gender††

All Students: Board by Gender*				
Number of Students	Female 3 691		Male 3 923	
	#	%	#	%
Level 4	488	13%	593	15%
Level 3	2 645	72%	2 778	71%
Level 2	372	10%	382	10%
Level 1	163	4%	137	3%
Below Level 1	3	<1%	9	<1%
<i>Participating Students</i>	3 671	99%	3 899	99%
No Data	20	1%	24	1%
At or Above Provincial Standard (Levels 3 and 4) †	85%		86%	



All Students: Province by Gender*				
Number of Students	Female 49 986		Male 47 171	
	#	%	#	%
Level 4	5 996	12%	6 587	14%
Level 3	35 861	72%	33 540	71%
Level 2	5 430	11%	4 640	10%
Level 1	2 172	4%	1 901	4%
Below Level 1	103	<1%	144	<1%
<i>Participating Students</i>	49 562	99%	46 812	99%
No Data	424	1%	359	1%
At or Above Provincial Standard (Levels 3 and 4) †	84%		85%	



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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, 2012–2013

**Contextual Information over Time: Applied Mathematics Course**

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

	2008–2009	2009–2010	2010–2011	2011–2012	2012–2013	
<b>Enrolment</b>						
Number of students in applied mathematics course	2 786	2 851	2 684	2 626	2 395	
Number of classes with students in applied mathematics course	168	171	163	197	164	
Number of schools with applied mathematics classes	35	34	33	36	37	
<b>Participation in the Assessment</b>						
Students who participated in the assessment	95%	96%	97%	96%	97%	
Participating students who received one or more accommodations*	22%	23%	24%	24%	24%	
Participating students who received one or more special provisions*	7%	6%	10%	16%	20%	
Students who did not complete any part of the assessment (no data)*	5%	4%	3%	4%	3%	
<b>Gender<sup>†</sup> Based on number of students enrolled</b>						
Female	45%	42%	45%	44%	44%	
Male	55%	58%	55%	56%	56%	
Gender not specified	0%	0%	0%	0%	0%	
<b>Student Status<sup>†</sup> Based on number of students enrolled</b>						
English language learners*	8%	8%	12%	22%	31%	
Students with special education needs (excluding gifted)*	23%	24%	24%	25%	26%	
<b>Semester/Full Year Based on number of students enrolled</b>						
First-semester course	47%	46%	42%	46%	47%	
Second-semester course	45%	48%	49%	50%	50%	
Full-year course	8%	6%	8%	4%	3%	
<b>Language and School Background<sup>††</sup> Based on Student Questionnaire data</b>						
	Number of Respondents:	2 535	2 594	2 343	2 265	2 085
Speak only or mostly a language other than English at home	9%	9%	11%	8%	9%	
Speak another language as often as English at home	19%	18%	21%	22%	21%	
Attended three or more elementary schools from kindergarten to Grade 8	57%	53%	56%	63%	63%	

\* See the Explanation of Terms.

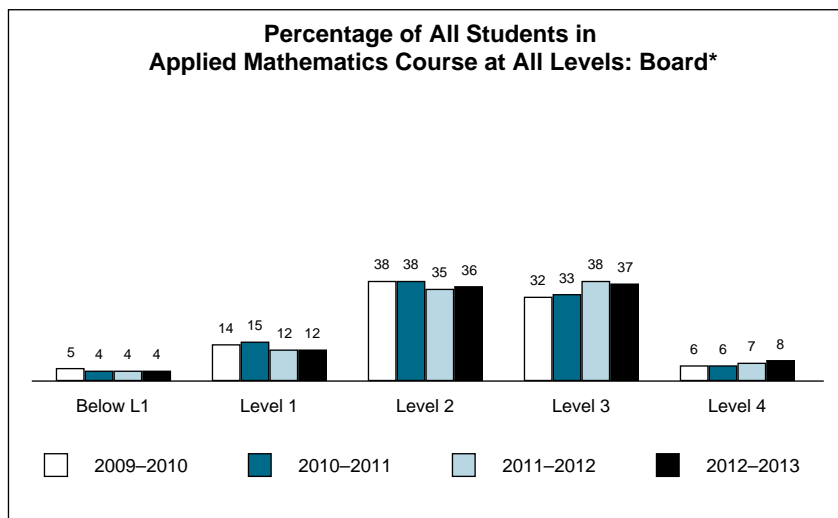
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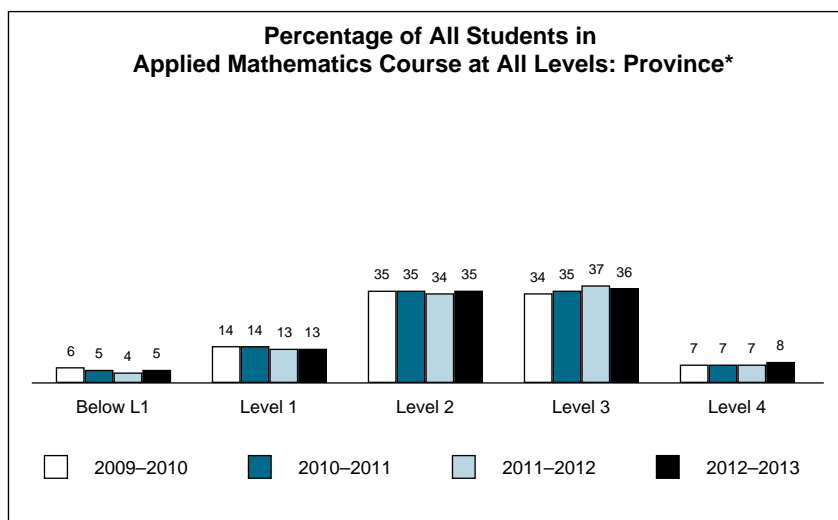
Results over Time, 2009–2010 to 2012–2013

Applied Mathematics Course for All Students

Board*				
Year	'09-'10	'10-'11	'11-'12	'12-'13
<i>Number of Students</i>	2 851	2 684	2 626	2 395
Level 4	6%	6%	7%	8%
Level 3	32%	33%	38%	37%
Level 2	38%	38%	35%	36%
Level 1	14%	15%	12%	12%
Below Level 1	5%	4%	4%	4%
<i>Participating Students</i>	96%	97%	96%	97%
No Data	4%	3%	4%	3%
At or Above Provincial Standard (Levels 3 and 4)†	39%	40%	45%	45%



Province*				
Year	'09-'10	'10-'11	'11-'12	'12-'13
<i>Number of Students</i>	47 566	44 095	41 799	39 881
Level 4	7%	7%	7%	8%
Level 3	34%	35%	37%	36%
Level 2	35%	35%	34%	35%
Level 1	14%	14%	13%	13%
Below Level 1	6%	5%	4%	5%
<i>Participating Students</i>	95%	95%	95%	96%
No Data	5%	5%	5%	4%
At or Above Provincial Standard (Levels 3 and 4)†	40%	42%	44%	44%



\* 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, 2012–2013

**Contextual Information over Time: Academic Mathematics Course**

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

	2008–2009	2009–2010	2010–2011	2011–2012	2012–2013	
<b>Enrolment</b>						
Number of students in academic mathematics course	7 483	7 336	7 446	7 577	7 614	
Number of classes with students in academic mathematics course	293	283	309	347	322	
Number of schools with academic mathematics classes	30	30	30	32	33	
<b>Participation in the Assessment</b>						
Students who participated in the assessment	99%	99%	100%	100%	99%	
Participating students who received one or more accommodations*	3%	3%	3%	4%	2%	
Participating students who received one or more special provisions*	3%	3%	3%	10%	14%	
Students who did not complete any part of the assessment (no data)*	1%	1%	<1%	<1%	1%	
<b>Gender<sup>†</sup> Based on number of students enrolled</b>						
Female	49%	51%	49%	49%	48%	
Male	51%	49%	51%	51%	52%	
Gender not specified	0%	0%	0%	0%	0%	
<b>Student Status<sup>†</sup> Based on number of students enrolled</b>						
English language learners*	4%	4%	4%	17%	28%	
Students with special education needs (excluding gifted)*	3%	3%	3%	3%	3%	
<b>Semester/Full Year Based on number of students enrolled</b>						
First-semester course	48%	47%	46%	50%	49%	
Second-semester course	47%	47%	46%	45%	46%	
Full-year course	6%	6%	8%	5%	4%	
<b>Language and School Background<sup>††</sup> Based on Student Questionnaire data</b>						
	Number of Respondents:	7 226	7 015	7 112	7 026	6 975
Speak only or mostly a language other than English at home		13%	12%	13%	12%	13%
Speak another language as often as English at home		27%	29%	25%	29%	30%
Attended three or more elementary schools from kindergarten to Grade 8		55%	54%	54%	65%	64%

\* See the Explanation of Terms.

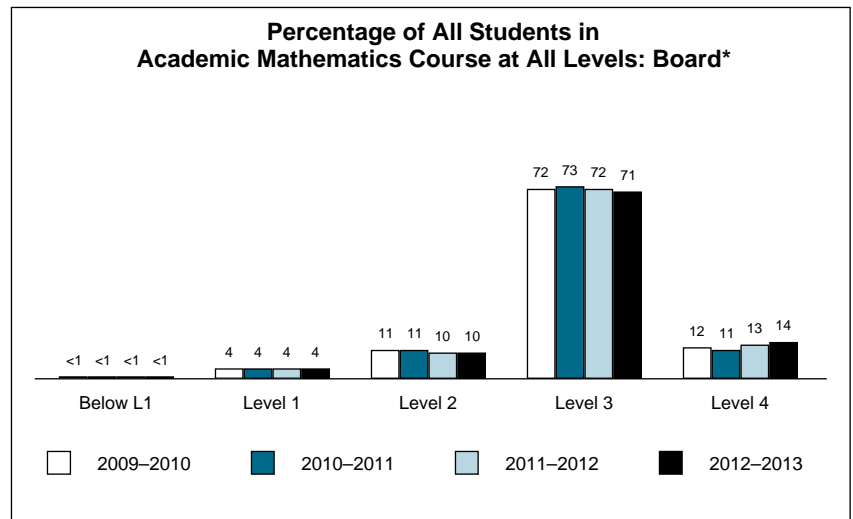
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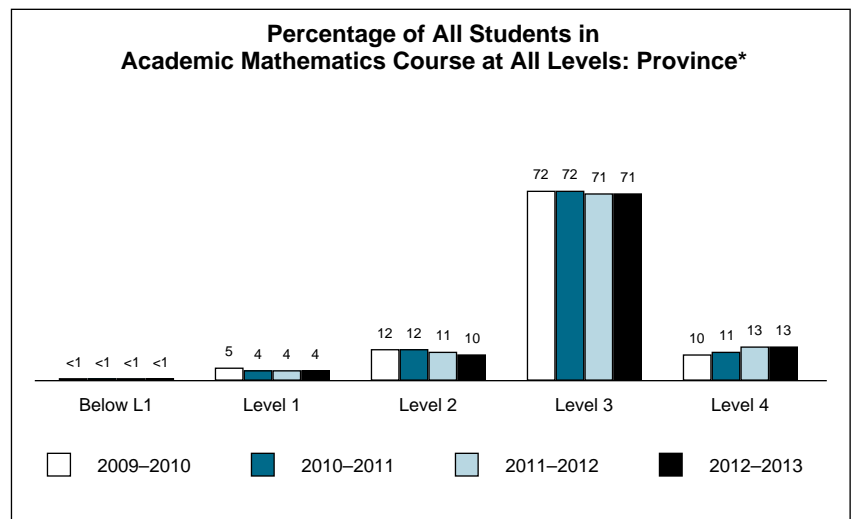
Results over Time, 2009–2010 to 2012–2013

Academic Mathematics Course for All Students

Board*				
Year	'09-'10	'10-'11	'11-'12	'12-'13
<i>Number of Students</i>	7 336	7 446	7 577	7 614
Level 4	12%	11%	13%	14%
Level 3	72%	73%	72%	71%
Level 2	11%	11%	10%	10%
Level 1	4%	4%	4%	4%
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)†	84%	84%	86%	85%



Province*				
Year	'09-'10	'10-'11	'11-'12	'12-'13
<i>Number of Students</i>	101 268	99 278	97 741	97 158
Level 4	10%	11%	13%	13%
Level 3	72%	72%	71%	71%
Level 2	12%	12%	11%	10%
Level 1	5%	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)†	82%	83%	84%	84%

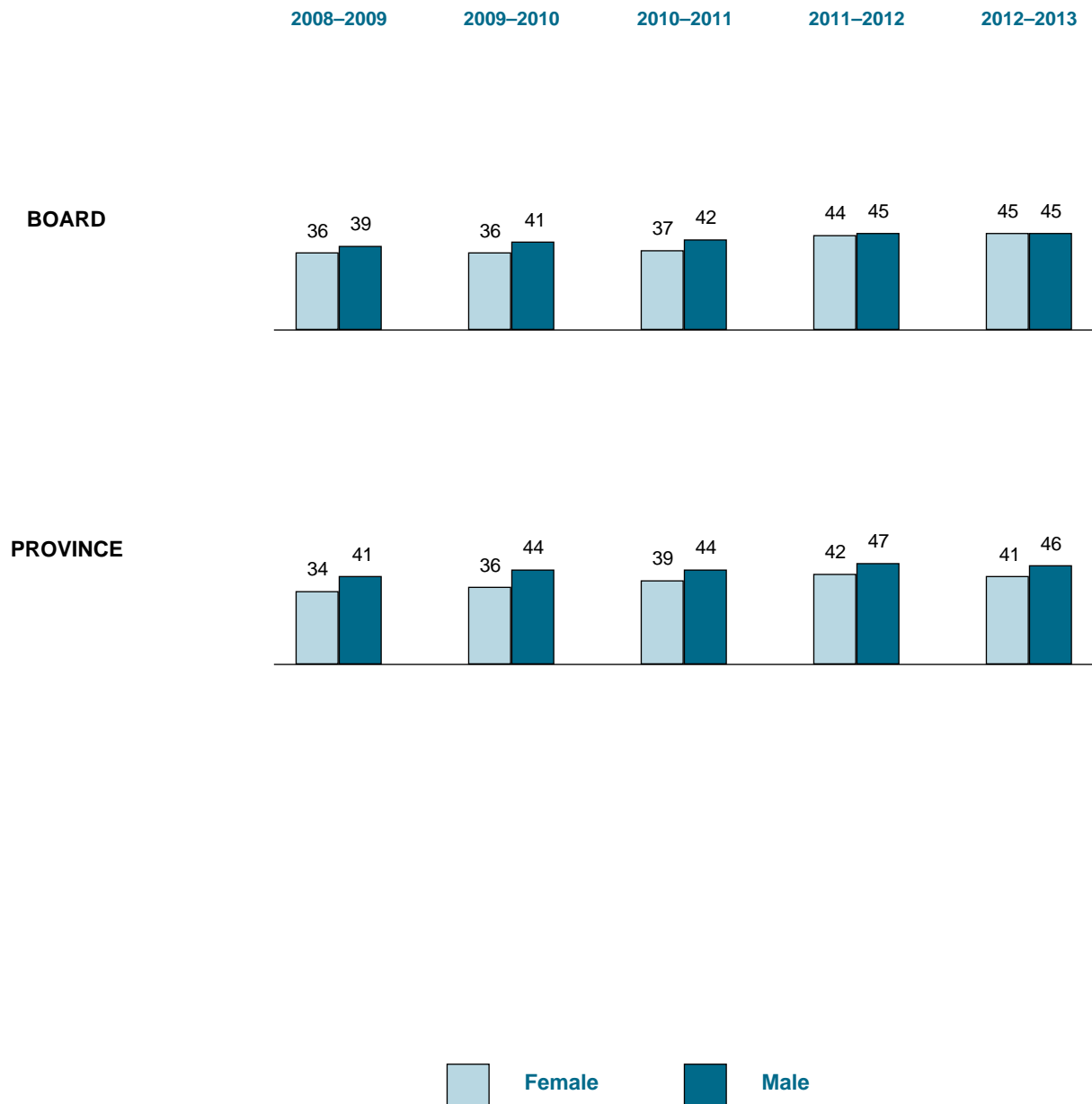


\* Because percentages in tables and graphs are rounded, and because graphs do not show all reporting categories, percentages may not add to 100.

† 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.

**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**



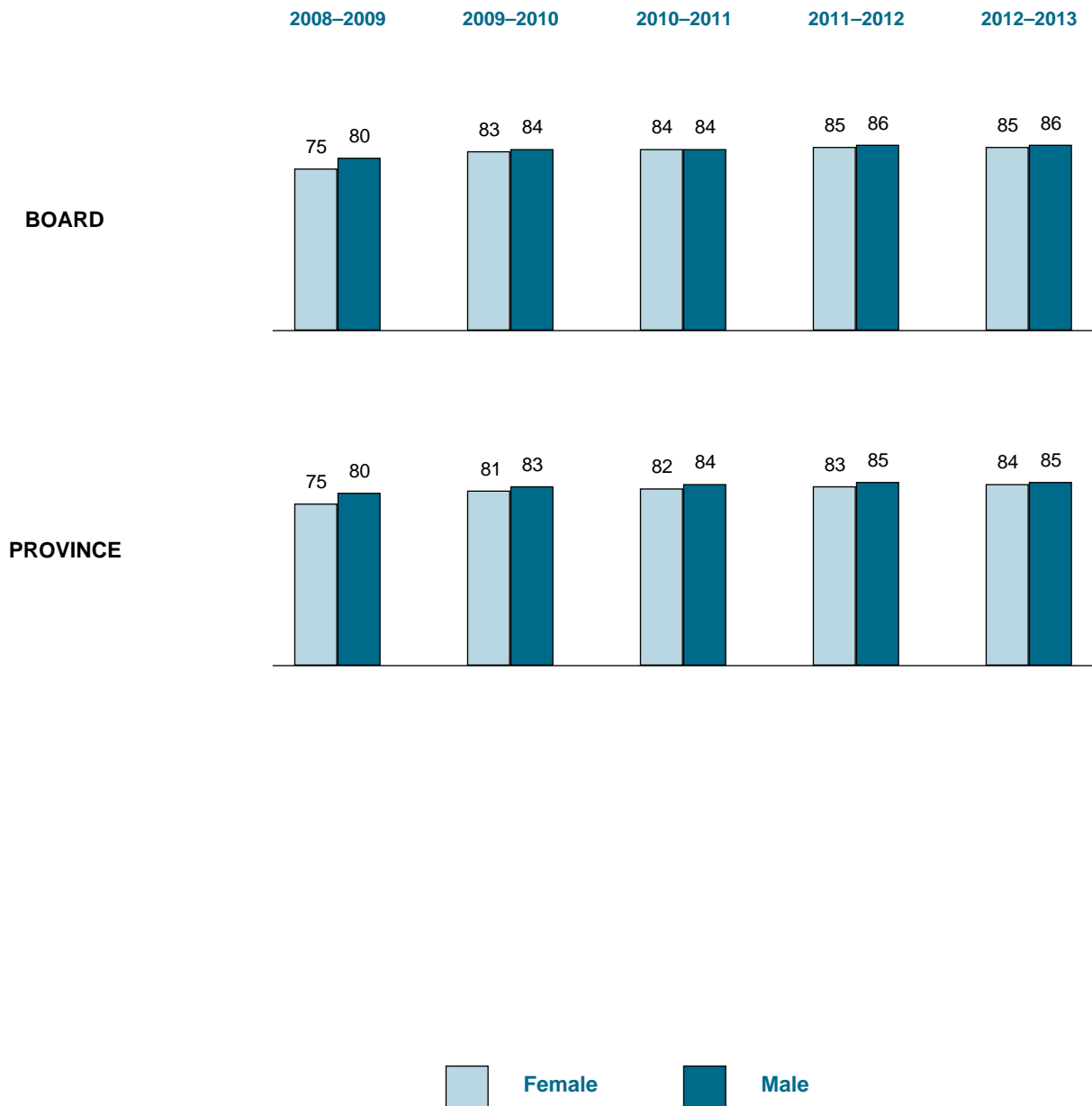
**Total Number of Students in Applied Mathematics Course†**

	2008-2009		2009-2010		2010-2011		2011-2012		2012-2013	
	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Board	1 263	1 523	1 211	1 640	1 209	1 475	1 151	1 475	1 044	1 351
Province	21 752	26 730	21 262	26 304	19 721	24 374	18 563	23 236	17 695	22 181

† 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 †**

	2008-2009		2009-2010		2010-2011		2011-2012		2012-2013	
	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Board	3 683	3 800	3 727	3 609	3 660	3 786	3 676	3 901	3 691	3 923
Province	51 554	49 438	51 972	49 296	50 814	48 464	50 134	47 607	49 986	47 171

† Includes only students for whom gender data were available.

### Grade 9 Assessment of Mathematics, 2012–2013, Applied Course

## STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# =2 085)

**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.		739
I am good at mathematics.		687
I am able to answer difficult mathematics questions.		458
Mathematics is one of my favourite subjects.		447
I understand most of the mathematics I am taught.		1 343
Mathematics is an easy subject.		364
I try to do my best in mathematics class.		1 669
The mathematics I learn now is useful for everyday life.		839
The mathematics I learn now helps me do work in other subjects.		978
I need to do well in mathematics to study what I want later.		1 125
I need to keep taking mathematics for the kind of job I want after I leave school.		981

**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)		253
algebra (e.g., solving equations, simplifying expressions with polynomials)		331
linear relations (e.g., scatter plots, lines of best fit)		399
measurement (e.g., perimeter, area, volume)		619
geometry (e.g., angles, parallel lines)		317

\* 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.

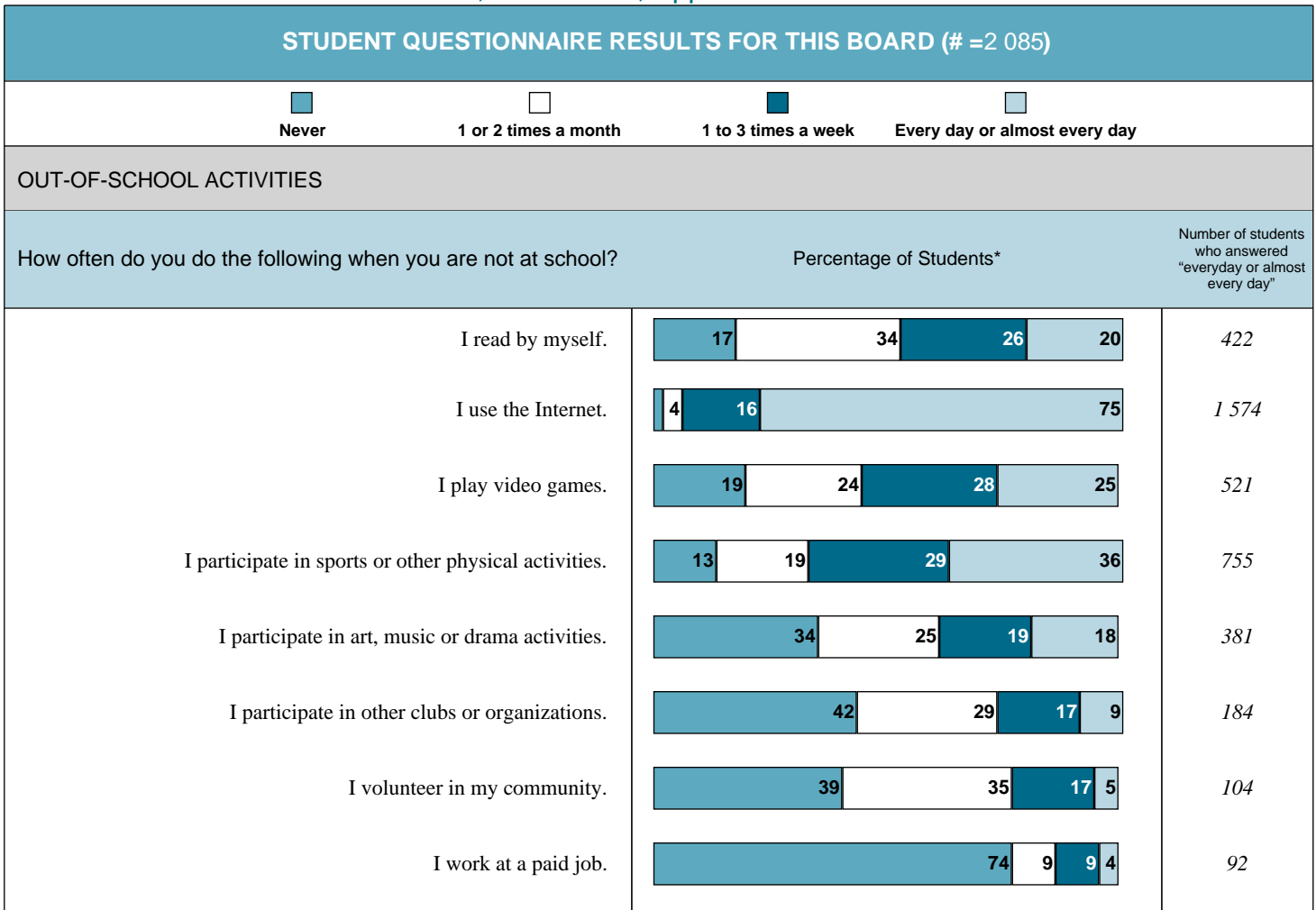


Grade 9 Assessment of Mathematics, 2012–2013, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# =2 085)					
	 Never or almost never	 Sometimes	 Often	 Very Often	
<b>DOING MATHEMATICS</b>					
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.	15	53	22	6	132
I check my mathematics answers to see if they make sense.	4	29	44	21	441
I apply new mathematics concepts to real-life problems.	30	45	17	5	101
I take time to discuss my mathematics assignments with my classmates.	26	42	21	8	163
I look for more than one way to solve mathematics problems.	12	38	33	14	301
How often do you complete your mathematics homework?	Percentage of Students*			Number of students	
I am not usually assigned any mathematics homework	8				160
Never or almost never	7				147
Sometimes		26			548
Often			36		757
Always				20	423

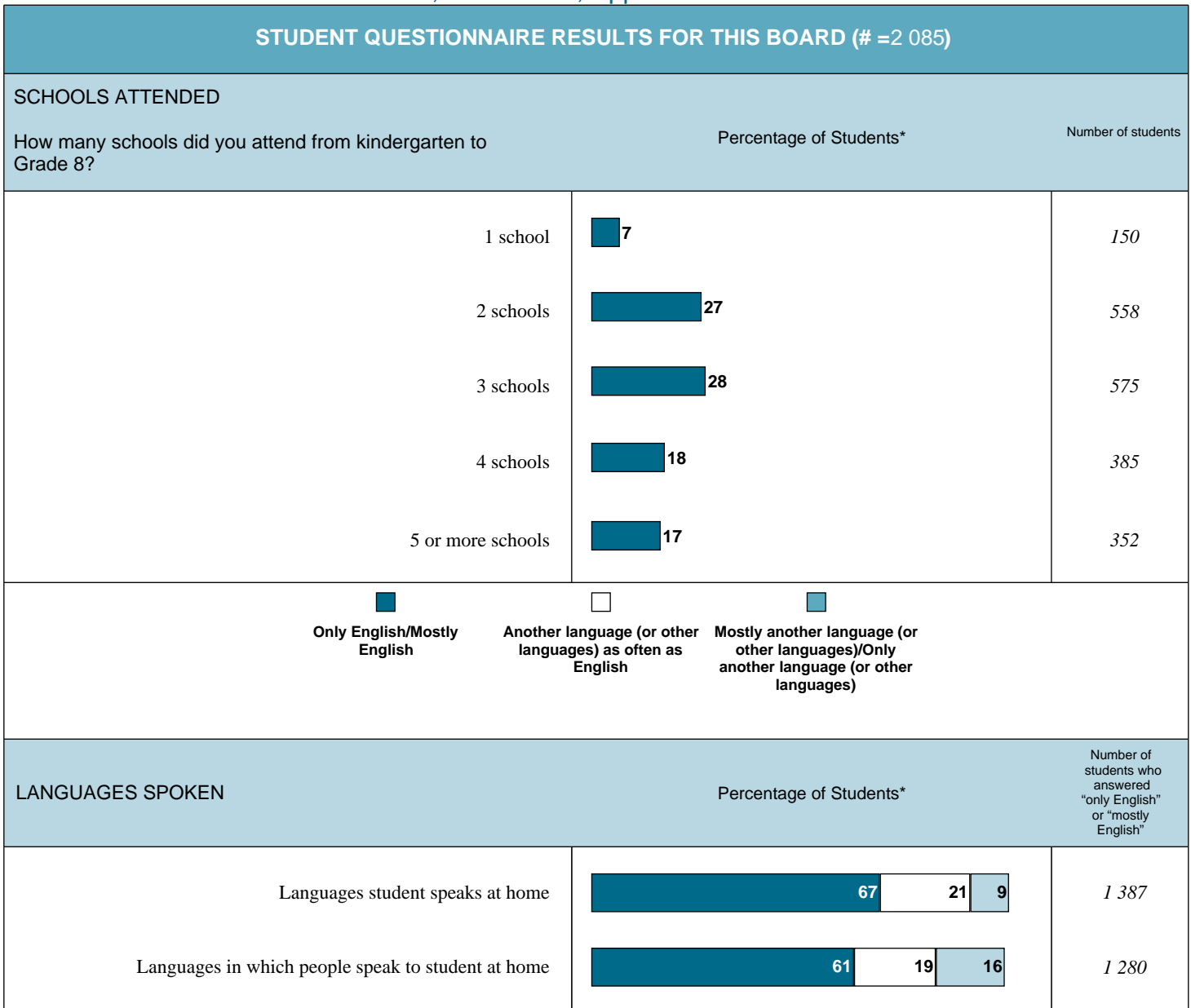
\* Percentages may not add to 100, due to rounding or to ambiguous responses or blanks. Where there is no number in a bar, the percentage of responses is smaller than four.

Grade 9 Assessment of Mathematics, 2012–2013, 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, 2012–2013, 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, 2012–2013, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# =2 085)		
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	 42	881
No	 2	46
Don't know	 52	1 092
Total number of students:		881
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	 86	756
No	 14	120
Total number of students:		881
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	 77	677
No	 8	70
Undecided	 14	127

\* 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, 2012–2013, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 2 085)	Female* (# = 921)	Male* (# = 1 164)	All Students (# = 33 705)	Female* (# = 15 120)	Male* (# = 18 582)
<b>STUDENTS' ATTITUDES TOWARD MATHEMATICS</b>						
Percentage of students indicating they "agree" or "strongly agree" with the following statements: †						
I like mathematics.	35%	28%	42%	34%	27%	40%
I am good at mathematics.	33%	27%	37%	35%	27%	41%
I am able to answer difficult mathematics questions.	22%	14%	28%	23%	15%	29%
Mathematics is one of my favourite subjects.	21%	16%	26%	21%	17%	25%
I understand most of the mathematics I am taught.	64%	59%	68%	61%	57%	65%
Mathematics is an easy subject.	17%	12%	22%	20%	14%	24%
I try to do my best in mathematics class.	80%	85%	76%	80%	84%	76%
The mathematics I learn now is useful for everyday life.	40%	35%	45%	38%	33%	42%
The mathematics I learn now helps me do work in other subjects.	47%	43%	50%	45%	43%	47%
I need to do well in mathematics to study what I want later.	54%	52%	56%	51%	48%	53%
I need to keep taking mathematics for the kind of job I want after I leave school.	47%	44%	49%	45%	41%	48%
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)	50%	42%	55%	46%	38%	53%
algebra (e.g., solving equations, simplifying expressions with polynomials)	49%	46%	51%	45%	41%	49%
linear relations (e.g., scatter plots, lines of best fit)	59%	54%	63%	60%	54%	64%
measurement (e.g., perimeter, area, volume)	68%	65%	71%	68%	64%	71%
geometry (e.g., angles, parallel lines)	46%	40%	51%	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, 2012–2013, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 2 085)	Female* (# = 921)	Male* (# = 1 164)	All Students (# = 33 705)	Female* (# = 15 120)	Male* (# = 18 582)
<b>DOING MATHEMATICS</b>						
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.	6%	4%	8%	6%	4%	6%
I check my mathematics answers to see if they make sense.	21%	22%	21%	18%	19%	17%
I apply new mathematics concepts to real-life problems.	5%	3%	6%	5%	3%	6%
I take time to discuss my mathematics assignments with my classmates.	8%	8%	8%	6%	6%	6%
I look for more than one way to solve mathematics problems.	14%	12%	17%	12%	10%	13%
Percentage of students indicating they complete their mathematics homework at the following frequencies: ‡						
I am not usually assigned any mathematics homework	8%	7%	8%	11%	11%	12%
Never or almost never	7%	4%	9%	8%	7%	10%
Sometimes	26%	24%	28%	28%	26%	29%
Often	36%	37%	36%	32%	33%	31%
Always	20%	25%	17%	18%	21%	15%

\* 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, 2012–2013, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 2 085)	Female* (# = 921)	Male* (# = 1 164)	All Students (# = 33 705)	Female* (# = 15 120)	Male* (# = 18 582)
<b>OUT-OF-SCHOOL ACTIVITIES</b>						
Percentage of students indicating they do the following “every day or almost every day” when they are not at school: †						
I read by myself.	20%	27%	15%	19%	26%	14%
I use the Internet.	75%	79%	73%	74%	78%	70%
I play video games.	25%	7%	39%	29%	10%	43%
I participate in sports or other physical activities.	36%	25%	45%	35%	26%	43%
I participate in art, music or drama activities.	18%	23%	14%	18%	24%	13%
I participate in other clubs or organizations.	9%	8%	10%	8%	7%	9%
I volunteer in my community.	5%	5%	5%	5%	6%	5%
I work at a paid job.	4%	3%	5%	8%	6%	9%
<b>SCHOOLS ATTENDED</b>						
Percentage of students indicating the number of schools they attended from kindergarten to Grade 8: ‡						
1 school	7%	6%	8%	26%	25%	26%
2 schools	27%	26%	27%	30%	30%	29%
3 schools	28%	29%	27%	20%	20%	20%
4 schools	18%	19%	18%	11%	11%	11%
5 or more schools	17%	17%	17%	12%	12%	11%
<b>LANGUAGES SPOKEN</b>						
Percentage of students indicating that they speak the following languages at home: ‡						
Only English/Mostly English	67%	66%	67%	79%	79%	79%
Another language (or other languages) as often as English	21%	23%	20%	13%	14%	12%
Mostly another language (or other languages)/ Only another language (or other languages)	9%	8%	10%	6%	6%	7%
Percentage of students indicating the languages people speak to them at home: ‡						
Only English/Mostly English	61%	60%	62%	75%	75%	75%
Another language (or other languages) as often as English	19%	20%	18%	12%	12%	11%
Mostly another language (or other languages)/ Only another language (or other languages)	16%	16%	16%	10%	10%	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, 2012–2013, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 2 085)	Female* (# = 921)	Male* (# = 1 164)	All Students (# = 33 705)	Female* (# = 15 120)	Male* (# = 18 582)
<b>USE OF THE ASSESSMENT IN CLASS MARKS</b>						
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	42%	47%	38%	44%	46%	42%
No	2%	1%	3%	2%	2%	3%
Don't know	52%	49%	55%	51%	49%	53%
Percentage of students indicating they were told how much the assessment will count as part of their class mark: ††						
	All Students (# = 881)	Female* (# = 433)	Male* (# = 448)	All Students (# = 14 800)	Female* (# = 6 991)	Male* (# = 7 807)
Yes	86%	85%	86%	88%	89%	88%
No	14%	14%	13%	11%	11%	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 (# = 881)	Female* (# = 433)	Male* (# = 448)	All Students (# = 14 800)	Female* (# = 6 991)	Male* (# = 7 807)
Yes	77%	81%	73%	76%	78%	75%
No	8%	5%	11%	9%	7%	12%
Undecided	14%	14%	15%	14%	15%	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, 2012–2013, Academic Course

## STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# =6 975)

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

### STUDENTS' ATTITUDES TOWARD MATHEMATICS





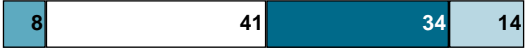


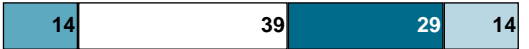





How much do you agree or disagree with the following statements?	Percentage of Students*	Number of students who answered "agree" or "strongly agree"
I like mathematics.		4 026
I am good at mathematics.		3 842
I am able to answer difficult mathematics questions.		3 218
Mathematics is one of my favourite subjects.		2 893
I understand most of the mathematics I am taught.		5 330
Mathematics is an easy subject.		2 178
I try to do my best in mathematics class.		5 919
The mathematics I learn now is useful for everyday life.		2 738
The mathematics I learn now helps me do work in other subjects.		3 940
I need to do well in mathematics to study what I want later.		4 787
I need to keep taking mathematics for the kind of job I want after I leave school.		4 353

**Not at all confident**
 **Somewhat confident**
 **Confident**
 **Very confident**

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)		2 236
algebra (e.g., solving equations, simplifying expressions with polynomials)		2 496
linear relations (e.g., scatter plots, lines of best fit)		1 467
analytic geometry (e.g., slope, y-intercept, equations of lines)		1 849
measurement (e.g., perimeter, area, volume)		2 860
geometry (e.g., angles, parallel lines)		2 460

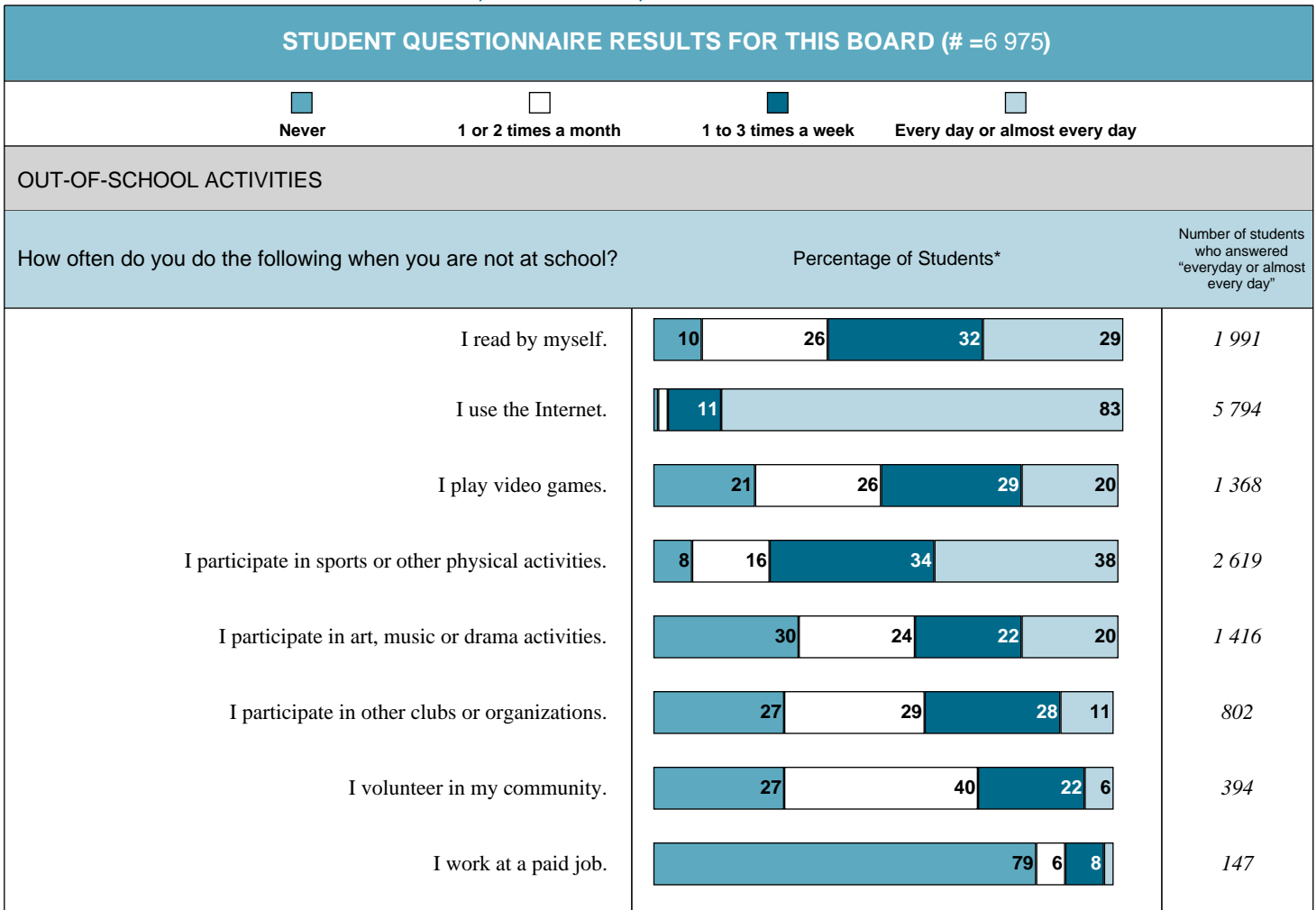
\* Percentages may not add to 100, due to rounding or to ambiguous responses or blanks. Where there is no number in a bar, the percentage of responses is smaller than four.

### Grade 9 Assessment of Mathematics, 2012–2013, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# =6 975)				
	 Never or almost never	 Sometimes	 Often	 Very Often
<b>DOING MATHEMATICS</b>				
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.				986
I check my mathematics answers to see if they make sense.				2 385
I apply new mathematics concepts to real-life problems.				467
I take time to discuss my mathematics assignments with my classmates.				1 002
I look for more than one way to solve mathematics problems.				1 159
How often do you complete your mathematics homework?		Percentage of Students*		Number of students
I am not usually assigned any mathematics homework				56
Never or almost never				326
Sometimes				1 379
Often				2 701
Always				2 315

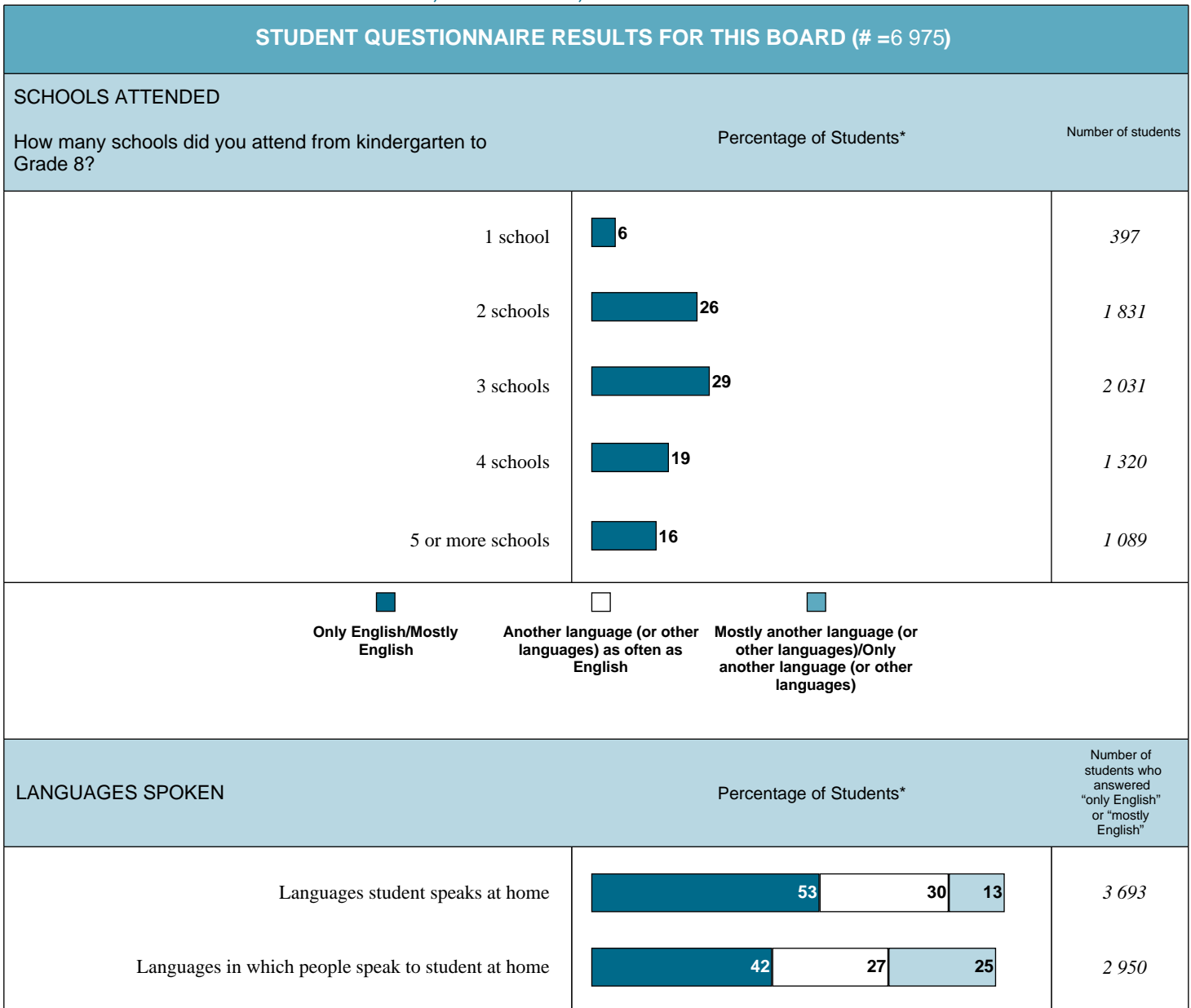
\* Percentages may not add to 100, due to rounding or to ambiguous responses or blanks. Where there is no number in a bar, the percentage of responses is smaller than four.

Grade 9 Assessment of Mathematics, 2012–2013, 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, 2012–2013, 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, 2012–2013, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# =6 975)		
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	4 598
No	1	81
Don't know	28	1 927
Total number of students:		4 598
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	93	4 271
No	7	316
Total number of students:		4 598
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	3 643
No	9	407
Undecided	11	528

\* 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, 2012–2013, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 6 975)	Female* (# = 3 390)	Male* (# = 3 585)	All Students (# = 88 883)	Female* (# = 46 008)	Male* (# = 42 874)
<b>STUDENTS' ATTITUDES TOWARD MATHEMATICS</b>						
Percentage of students indicating they "agree" or "strongly agree" with the following statements: †						
I like mathematics.	58%	50%	65%	56%	50%	62%
I am good at mathematics.	55%	47%	63%	56%	49%	63%
I am able to answer difficult mathematics questions.	46%	36%	55%	47%	38%	56%
Mathematics is one of my favourite subjects.	41%	35%	48%	39%	34%	45%
I understand most of the mathematics I am taught.	76%	73%	79%	75%	72%	78%
Mathematics is an easy subject.	31%	24%	38%	31%	25%	37%
I try to do my best in mathematics class.	85%	89%	81%	85%	89%	81%
The mathematics I learn now is useful for everyday life.	39%	35%	44%	36%	32%	42%
The mathematics I learn now helps me do work in other subjects.	56%	55%	58%	56%	54%	58%
I need to do well in mathematics to study what I want later.	69%	65%	72%	64%	61%	68%
I need to keep taking mathematics for the kind of job I want after I leave school.	62%	58%	66%	59%	55%	63%
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)	74%	67%	80%	71%	64%	78%
algebra (e.g., solving equations, simplifying expressions with polynomials)	73%	71%	75%	71%	69%	74%
linear relations (e.g., scatter plots, lines of best fit)	63%	56%	69%	60%	53%	67%
analytic geometry (e.g., slope, y-intercept, equations of lines)	64%	59%	68%	61%	57%	66%
measurement (e.g., perimeter, area, volume)	81%	77%	84%	81%	77%	85%
geometry (e.g., angles, parallel lines)	73%	68%	77%	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, 2012–2013, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 6 975)	Female* (# = 3 390)	Male* (# = 3 585)	All Students (# = 88 883)	Female* (# = 46 008)	Male* (# = 42 874)
<b>DOING MATHEMATICS</b>						
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.	14%	13%	15%	13%	12%	14%
I check my mathematics answers to see if they make sense.	34%	36%	32%	31%	33%	28%
I apply new mathematics concepts to real-life problems.	7%	5%	9%	6%	4%	8%
I take time to discuss my mathematics assignments with my classmates.	14%	15%	14%	11%	11%	10%
I look for more than one way to solve mathematics problems.	17%	14%	20%	14%	12%	17%
Percentage of students indicating they complete their mathematics homework at the following frequencies: ‡						
I am not usually assigned any mathematics homework	1%	1%	1%	1%	1%	2%
Never or almost never	5%	3%	6%	6%	4%	8%
Sometimes	20%	16%	23%	21%	18%	25%
Often	39%	38%	39%	38%	38%	38%
Always	33%	39%	28%	31%	37%	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, 2012–2013, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 6 975)	Female* (# = 3 390)	Male* (# = 3 585)	All Students (# = 88 883)	Female* (# = 46 008)	Male* (# = 42 874)
<b>OUT-OF-SCHOOL ACTIVITIES</b>						
Percentage of students indicating they do the following “every day or almost every day” when they are not at school: †						
I read by myself.	29%	36%	21%	26%	33%	19%
I use the Internet.	83%	84%	82%	80%	82%	78%
I play video games.	20%	6%	32%	22%	6%	39%
I participate in sports or other physical activities.	38%	27%	48%	40%	33%	47%
I participate in art, music or drama activities.	20%	25%	16%	20%	24%	14%
I participate in other clubs or organizations.	11%	10%	13%	11%	10%	11%
I volunteer in my community.	6%	6%	5%	4%	5%	4%
I work at a paid job.	2%	2%	2%	4%	4%	5%
<b>SCHOOLS ATTENDED</b>						
Percentage of students indicating the number of schools they attended from kindergarten to Grade 8: ‡						
1 school	6%	6%	6%	27%	27%	27%
2 schools	26%	27%	26%	32%	32%	32%
3 schools	29%	29%	29%	19%	19%	20%
4 schools	19%	18%	19%	10%	10%	10%
5 or more schools	16%	15%	16%	8%	8%	8%
<b>LANGUAGES SPOKEN</b>						
Percentage of students indicating that they speak the following languages at home: ‡						
Only English/Mostly English	53%	55%	51%	72%	73%	71%
Another language (or other languages) as often as English	30%	29%	30%	16%	16%	16%
Mostly another language (or other languages)/ Only another language (or other languages)	13%	11%	15%	9%	8%	10%
Percentage of students indicating the languages people speak to them at home: ‡						
Only English/Mostly English	42%	44%	41%	66%	67%	65%
Another language (or other languages) as often as English	27%	28%	27%	15%	15%	14%
Mostly another language (or other languages)/ Only another language (or other languages)	25%	22%	27%	15%	14%	17%

\* 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, 2012–2013, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 6 975)	Female* (# = 3 390)	Male* (# = 3 585)	All Students (# = 88 883)	Female* (# = 46 008)	Male* (# = 42 874)
<b>USE OF THE ASSESSMENT IN CLASS MARKS</b>						
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%	67%	65%	69%	71%	66%
No	1%	1%	1%	2%	1%	2%
Don't know	28%	26%	29%	26%	23%	28%
Percentage of students indicating they were told how much the assessment will count as part of their class mark: ††						
	All Students (# = 4 598)	Female* (# = 2 282)	Male* (# = 2 316)	All Students (# = 61 078)	Female* (# = 32 680)	Male* (# = 28 397)
Yes	93%	94%	92%	94%	94%	93%
No	7%	6%	8%	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 (# = 4 598)	Female* (# = 2 282)	Male* (# = 2 316)	All Students (# = 61 078)	Female* (# = 32 680)	Male* (# = 28 397)
Yes	79%	82%	77%	78%	80%	75%
No	9%	6%	12%	10%	7%	13%
Undecided	11%	12%	11%	12%	13%	11%

\* 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, 2012–2013

## EXPLANATION OF TERMS

<b>All Students</b>	Results are reported for all students in the course.
<b>Participating Students</b>	Results are reported only for those students who took part in the assessment (excludes the "no data" category).
<b>Provincial Standard</b>	The Ministry of Education, in <i>The Ontario Curriculum, Grades 9 and 10: Mathematics</i> , has set Level 3 as the provincial standard.
<b>Level 4 (80–100%)</b>	The student has demonstrated a very high to outstanding level of achievement. Achievement is <i>above</i> the provincial standard.
<b>Level 3 (70–79%)</b>	The student has demonstrated a high level of achievement. Achievement is <i>at</i> the provincial standard.
<b>Level 2 (60–69%)</b>	The student has demonstrated some of the required knowledge and skills. Achievement is <i>below, but approaching</i> , the provincial standard.
<b>Level 1 (50–59%)</b>	The student has demonstrated a passable level of achievement. Achievement is <i>below</i> the provincial standard.
<b>Below Level 1/ Below L1</b>	The student has not demonstrated sufficient achievement of curriculum expectations (below 50%).
<b>No Data</b>	Students who did not have a result due to absence or other reasons.
<b>English Language Learners</b>	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).
<b>Students Receiving One or More Special Provisions</b>	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> .
<b>Students with Special Education Needs (excluding gifted)</b>	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.
<b>Students Receiving One or More Accommodations</b>	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> .
<b>N/R</b>	"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.
<b>N/D</b>	"No data available" is used to indicate that there were no students in the course for the years specified.
<b>W</b>	Results are being withheld by EQAO. For further information, please contact personnel at the board.