



# School Report



## Grade 9 Assessment of Mathematics, 2012–2013

**School: Hillcrest HS (916854)**

**Board: Ottawa-Carleton DSB (66184)**

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.

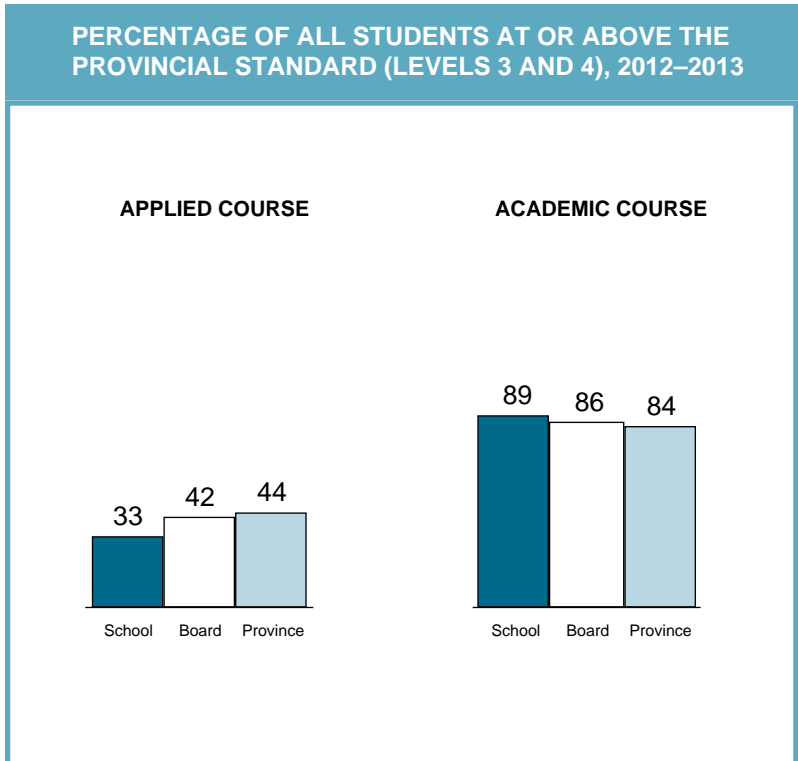
We continue to advocate the use of EQAO data in combination with classroom-generated results and other information sources to develop strategies and action plans that will make a measurable difference in learning outcomes.

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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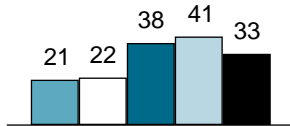


Grade 9 Assessment of Mathematics, 2012–2013

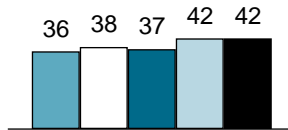
PERCENTAGE OF ALL STUDENTS AT OR ABOVE THE PROVINCIAL STANDARD (LEVELS 3 AND 4) OVER TIME

APPLIED MATHEMATICS

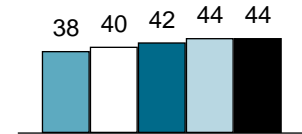
School



Board



Province



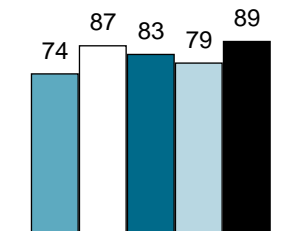
■ 2008–2009    □ 2009–2010    ■ 2010–2011    □ 2011–2012    ■ 2012–2013

Total Number of Students

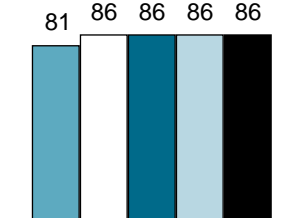
	<u>2008–2009</u>	<u>2009–2010</u>	<u>2010–2011</u>	<u>2011–2012</u>	<u>2012–2013</u>
School	57	50	26	17	18
Board	1 228	1 099	1 074	1 040	1 100
Province	48 482	47 566	44 095	41 799	39 881

ACADEMIC MATHEMATICS

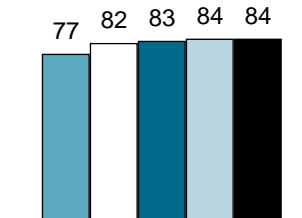
School



Board



Province



■ 2008–2009    □ 2009–2010    ■ 2010–2011    □ 2011–2012    ■ 2012–2013

Total Number of Students

	<u>2008–2009</u>	<u>2009–2010</u>	<u>2010–2011</u>	<u>2011–2012</u>	<u>2012–2013</u>
School	204	231	129	123	89
Board	4 074	4 159	4 125	4 076	4 102
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 school's applied mathematics course results.

	School		Board		Province	
<b>Enrolment</b>						
Number of students in applied mathematics course	18		1 100		39 881	
Number of classes with students in applied mathematics course	1		72		2 610	
Number of schools with applied mathematics classes	Not applicable		25		721	
<b>Number    Percent    Number    Percent    Number    Percent</b>						
<b>Participation in the Assessment</b>						
Students who participated in the assessment	18	100%	1 054	96%	38 215	96%
Participating students who received one or more accommodations*	12	67%	432	41%	11 333	30%
Participating students who received one or more special provisions*	0	0%	98	9%	1 846	5%
Students who did not complete any part of the assessment (no data)*	0	0%	46	4%	1 666	4%
<b>Gender<sup>†</sup> Based on number of students enrolled</b>						
Female	8	44%	505	46%	17 695	44%
Male	10	56%	595	54%	22 181	56%
Gender not specified	0	0%	0	0%	5	<1%
<b>Student Status<sup>†</sup> Based on number of students enrolled</b>						
English language learners*	2	11%	223	20%	3 173	8%
Students with special education needs (excluding gifted)*	12	67%	520	47%	14 361	36%
<b>Semester/Full Year Based on number of students enrolled</b>						
First-semester course	18	100%	491	45%	18 240	46%
Second-semester course	0	0%	558	51%	18 430	46%
Full-year course	0	0%	51	5%	3 211	8%
<b>Language and School Background<sup>††</sup></b>						
<i>Based on Student Questionnaire data</i>						
Number of Respondents:		18	933		33 705	
Speak only or mostly a language other than English at home	1	6%	81	9%	2 148	6%
Speak another language as often as English at home	2	11%	148	16%	4 288	13%
Attended three or more elementary schools from kindergarten to Grade 8	6	33%	516	55%	14 299	42%

\* See the Explanation of Terms.

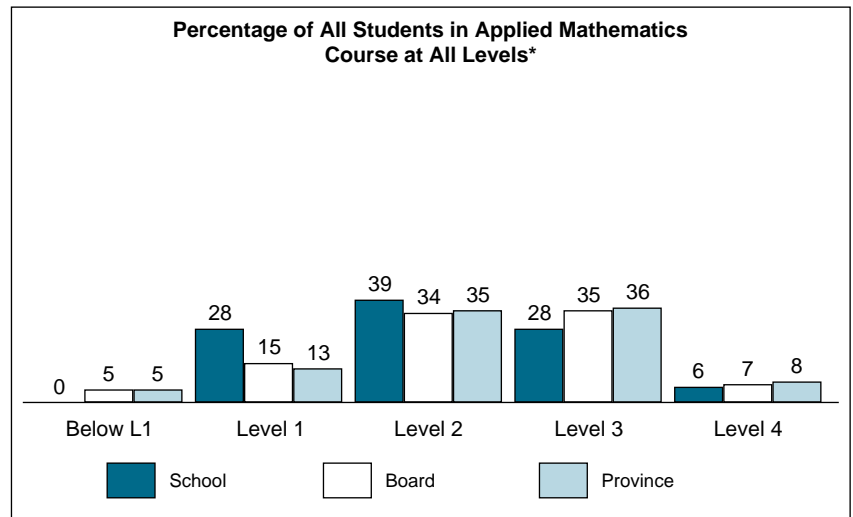
† Contextual data pertaining to "gender" and "student status" are provided by schools and/or boards through the Student Data Collection process. Some data may be missing because they were not provided by the school or the board.

†† 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

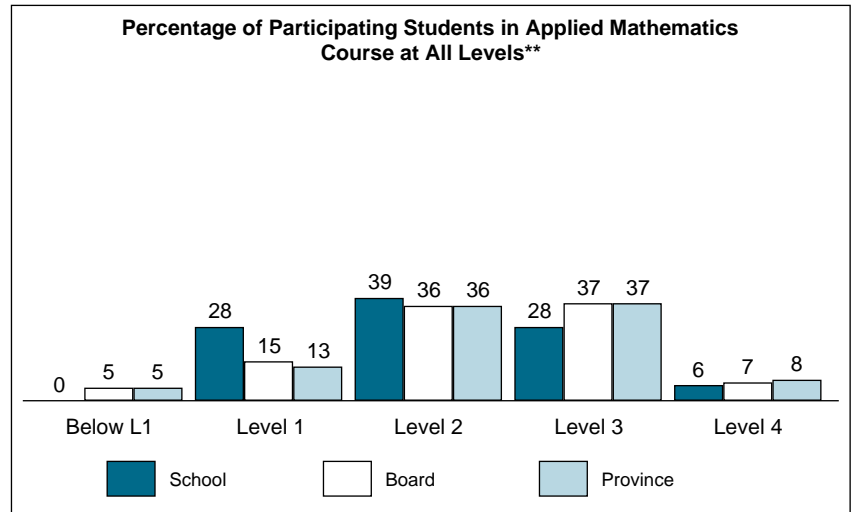
Results for All Students

All Students*				
Number of Students	School 18		Board 1 100	Province 39 881
	#	%	%	%
Level 4	1	6%	7%	8%
Level 3	5	28%	35%	36%
Level 2	7	39%	34%	35%
Level 1	5	28%	15%	13%
Below Level 1	0	0%	5%	5%
Participating Students	18	100%	96%	96%
No Data	0	0%	4%	4%
<b>At or Above Provincial Standard (Levels 3 and 4) †</b>		<b>33%</b>	<b>42%</b>	<b>44%</b>



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

Participating Students**				
Number of Students	School 18		Board 1 054	Province 38 215
	#	%	%	%
Level 4	1	6%	7%	8%
Level 3	5	28%	37%	37%
Level 2	7	39%	36%	36%
Level 1	5	28%	15%	13%
Below Level 1	0	0%	5%	5%
<b>At or Above Provincial Standard (Levels 3 and 4) †</b>		<b>33%</b>	<b>44%</b>	<b>45%</b>



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

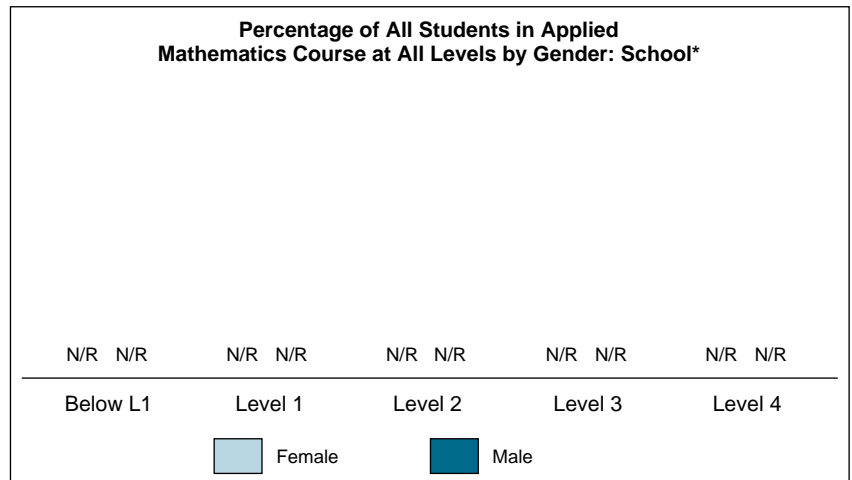
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† These percentages are based on the actual number of students and cannot be calculated simply by adding the rounded percentages of students at Levels 3 and 4.

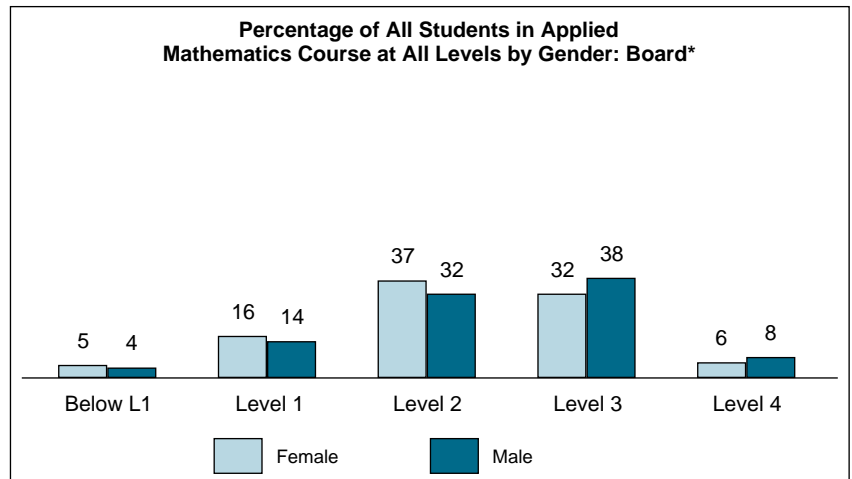
Grade 9 Assessment of Mathematics, 2012–2013, Applied Course

Results by Gender††

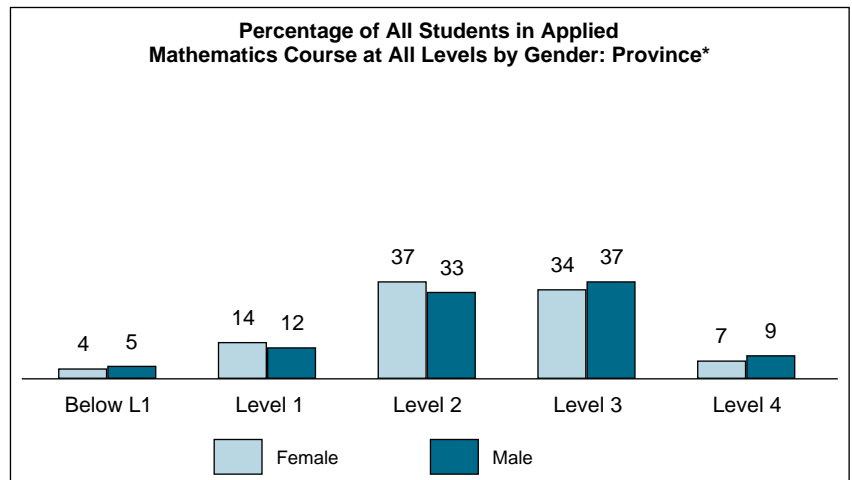
All Students: School by Gender*				
Number of Students	Female N/R		Male N/R	
	#	%	#	%
Level 4	N/R	N/R	N/R	N/R
Level 3	N/R	N/R	N/R	N/R
Level 2	N/R	N/R	N/R	N/R
Level 1	N/R	N/R	N/R	N/R
Below Level 1	N/R	N/R	N/R	N/R
Participating Students	N/R	N/R	N/R	N/R
No Data	N/R	N/R	N/R	N/R
<b>At or Above Provincial Standard (Levels 3 and 4) †</b>	<b>N/R</b>		<b>N/R</b>	



All Students: Board by Gender*				
Number of Students	Female 505		Male 595	
	#	%	#	%
Level 4	28	6%	47	8%
Level 3	163	32%	225	38%
Level 2	187	37%	190	32%
Level 1	79	16%	84	14%
Below Level 1	26	5%	25	4%
Participating Students	483	96%	571	96%
No Data	22	4%	24	4%
<b>At or Above Provincial Standard (Levels 3 and 4) †</b>	<b>38%</b>		<b>46%</b>	



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%
<b>At or Above Provincial Standard (Levels 3 and 4) †</b>	<b>41%</b>		<b>46%</b>	



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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, Academic Course

**Contextual Information**

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

	School		Board		Province	
<b>Enrolment</b>						
Number of students in academic mathematics course	89		4 102		97 158	
Number of classes with students in academic mathematics course	4		183		4 080	
Number of schools with academic mathematics classes	Not applicable		23		686	
<b>Number Percent Number Percent Number Percent</b>						
<b>Participation in the Assessment</b>						
Students who participated in the assessment	88	99%	4 047	99%	96 375	99%
Participating students who received one or more accommodations*	11	12%	416	10%	4 816	5%
Participating students who received one or more special provisions*	0	0%	130	3%	3 286	3%
Students who did not complete any part of the assessment (no data)*	1	1%	55	1%	783	1%
<b>Gender<sup>†</sup> Based on number of students enrolled</b>						
Female	41	46%	2 052	50%	49 986	51%
Male	48	54%	2 044	50%	47 171	49%
Gender not specified	0	0%	6	<1%	1	<1%
<b>Student Status<sup>†</sup> Based on number of students enrolled</b>						
English language learners*	15	17%	448	11%	6 127	6%
Students with special education needs (excluding gifted)*	11	12%	431	11%	5 747	6%
<b>Semester/Full Year Based on number of students enrolled</b>						
First-semester course	22	25%	1 952	48%	43 236	45%
Second-semester course	67	75%	1 860	45%	42 502	44%
Full-year course	0	0%	290	7%	11 420	12%
<b>Language and School Background<sup>††</sup></b>						
<i>Based on Student Questionnaire data</i>						
Number of Respondents:						
	83		3 730		88 883	
Speak only or mostly a language other than English at home	5	6%	384	10%	7 885	9%
Speak another language as often as English at home	17	20%	656	18%	14 023	16%
Attended three or more elementary schools from kindergarten to Grade 8	28	34%	1 800	48%	33 299	37%

\* See the Explanation of Terms.

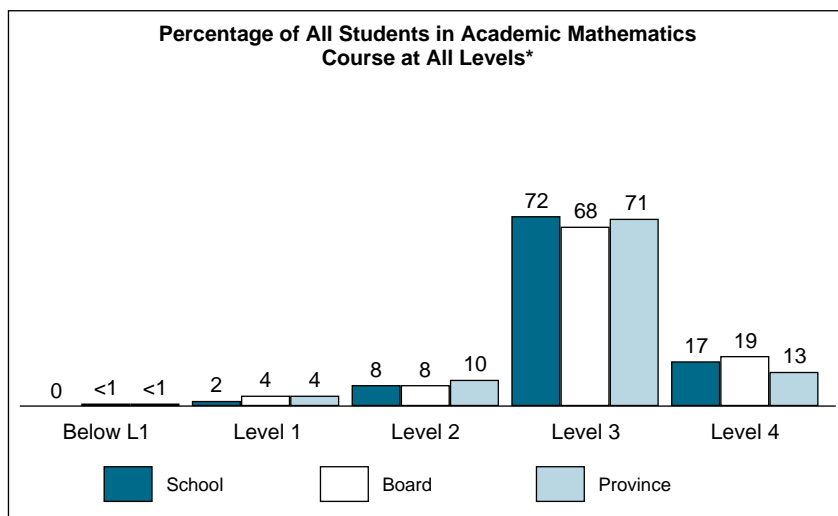
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Grade 9 Assessment of Mathematics, 2012–2013, Academic Course

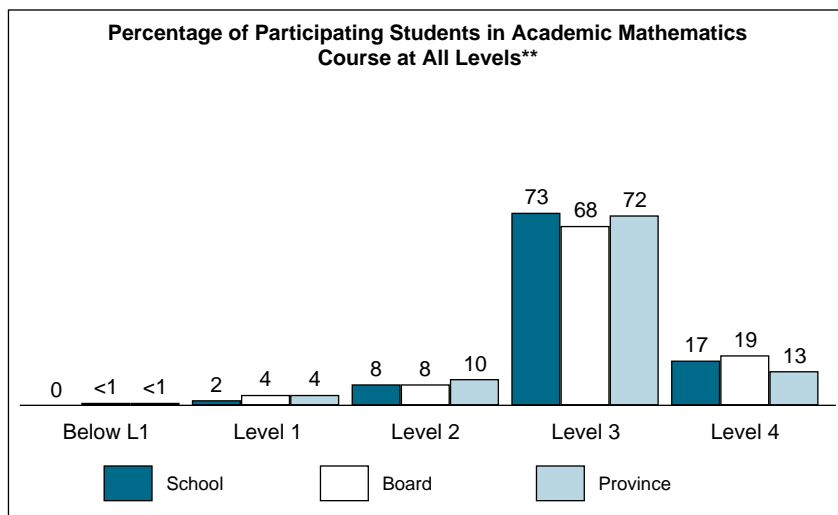
Results for All Students

All Students*				
Number of Students	School 89		Board 4 102	Province 97 158
	#	%	%	%
Level 4	15	17%	19%	13%
Level 3	64	72%	68%	71%
Level 2	7	8%	8%	10%
Level 1	2	2%	4%	4%
Below Level 1	0	0%	<1%	<1%
Participating Students	88	99%	99%	99%
No Data	1	1%	1%	1%
<b>At or Above Provincial Standard (Levels 3 and 4) †</b>		<b>89%</b>	<b>86%</b>	<b>84%</b>



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

Participating Students**				
Number of Students	School 88		Board 4 047	Province 96 375
	#	%	%	%
Level 4	15	17%	19%	13%
Level 3	64	73%	68%	72%
Level 2	7	8%	8%	10%
Level 1	2	2%	4%	4%
Below Level 1	0	0%	<1%	<1%
<b>At or Above Provincial Standard (Levels 3 and 4) †</b>		<b>90%</b>	<b>87%</b>	<b>85%</b>



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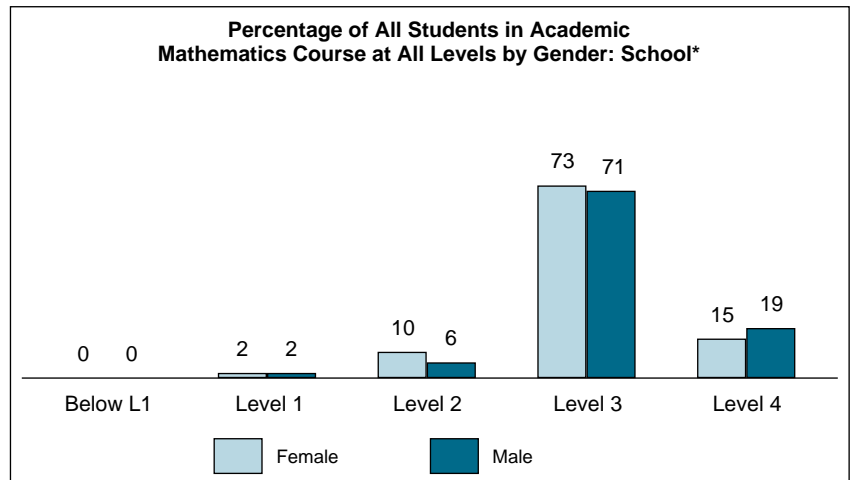
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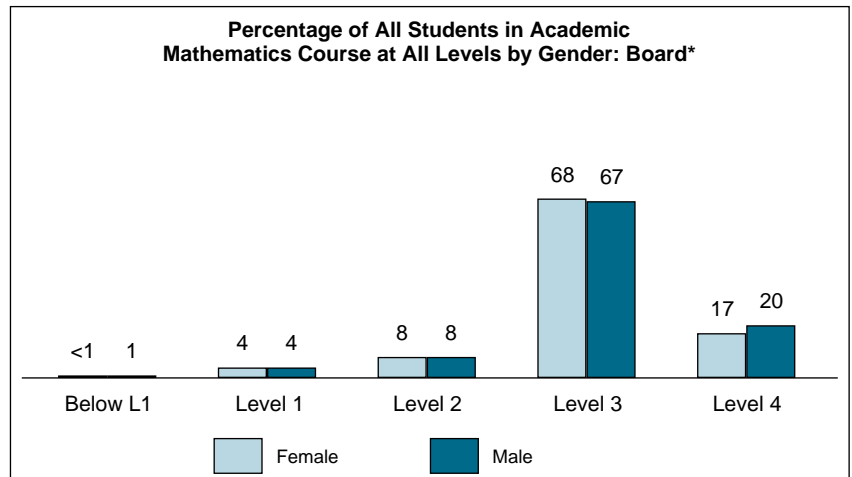
Grade 9 Assessment of Mathematics, 2012–2013, Academic Course

Results by Gender††

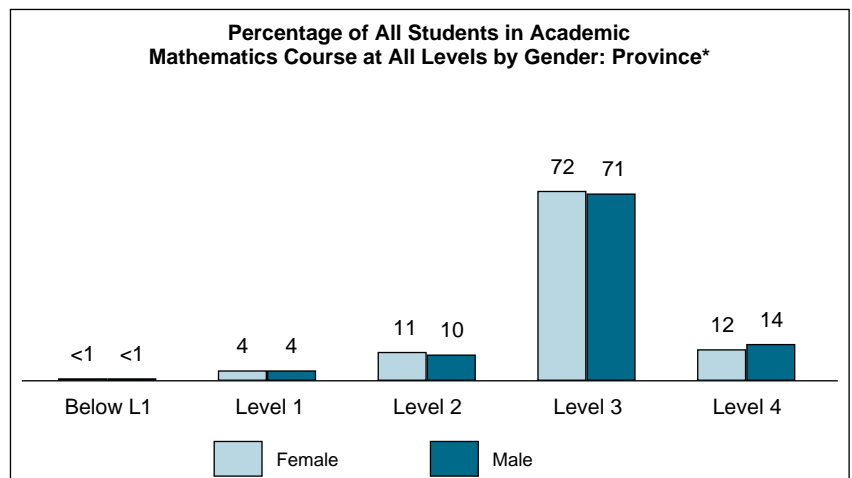
All Students: School by Gender*				
Number of Students	Female 41		Male 48	
	#	%	#	%
Level 4	6	15%	9	19%
Level 3	30	73%	34	71%
Level 2	4	10%	3	6%
Level 1	1	2%	1	2%
Below Level 1	0	0%	0	0%
Participating Students	41	100%	47	98%
No Data	0	0%	1	2%
<b>At or Above Provincial Standard (Levels 3 and 4) †</b>	<b>88%</b>		<b>90%</b>	



All Students: Board by Gender*				
Number of Students	Female 2 052		Male 2 044	
	#	%	#	%
Level 4	358	17%	405	20%
Level 3	1 399	68%	1 368	67%
Level 2	173	8%	156	8%
Level 1	87	4%	76	4%
Below Level 1	8	<1%	11	1%
Participating Students	2 025	99%	2 016	99%
No Data	27	1%	28	1%
<b>At or Above Provincial Standard (Levels 3 and 4) †</b>	<b>86%</b>		<b>87%</b>	



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%
Participating Students	49 562	99%	46 812	99%
No Data	424	1%	359	1%
<b>At or Above Provincial Standard (Levels 3 and 4) †</b>	<b>84%</b>		<b>85%</b>	



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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 school'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	57	50	26	17	18	
Number of classes with students in applied mathematics course	4	3	2	2	1	
<b>Participation in the Assessment</b>						
Students who participated in the assessment	100%	96%	92%	100%	100%	
Participating students who received one or more accommodations*	53%	48%	50%	29%	67%	
Participating students who received one or more special provisions*	2%	4%	0%	0%	0%	
Students who did not complete any part of the assessment (no data)*	0%	4%	8%	0%	0%	
<b>Gender<sup>†</sup> Based on number of students enrolled</b>						
Female	42%	54%	46%	59%	44%	
Male	58%	46%	54%	41%	56%	
Gender not specified	0%	0%	0%	0%	0%	
<b>Student Status<sup>†</sup> Based on number of students enrolled</b>						
English language learners*	7%	24%	19%	12%	11%	
Students with special education needs (excluding gifted)*	56%	48%	50%	29%	67%	
<b>Semester/Full Year Based on number of students enrolled</b>						
First-semester course	54%	48%	0%	94%	100%	
Second-semester course	46%	52%	100%	6%	0%	
Full-year course	0%	0%	0%	0%	0%	
<b>Language and School Background<sup>††</sup> Based on Student Questionnaire data</b>						
	Number of Respondents:	57	47	24	17	18
Speak only or mostly a language other than English at home	11%	19%	8%	12%	6%	
Speak another language as often as English at home	23%	26%	29%	18%	11%	
Attended three or more elementary schools from kindergarten to Grade 8	60%	49%	33%	53%	33%	

\* See the Explanation of Terms.

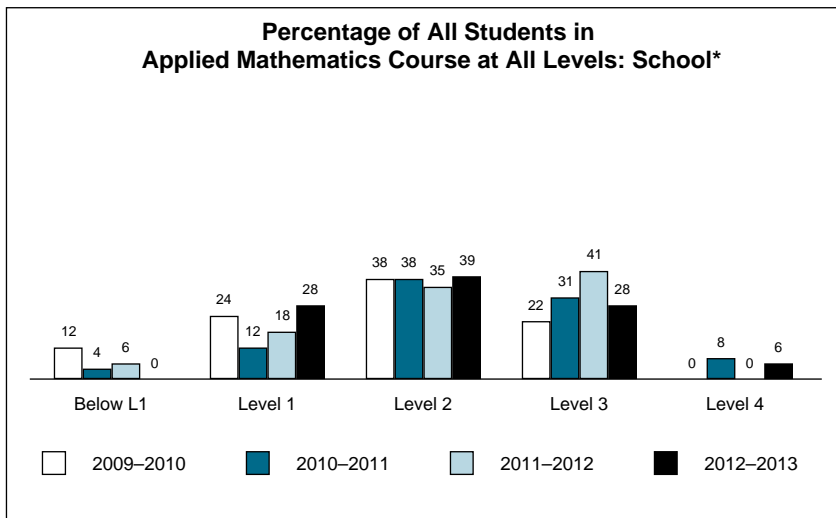
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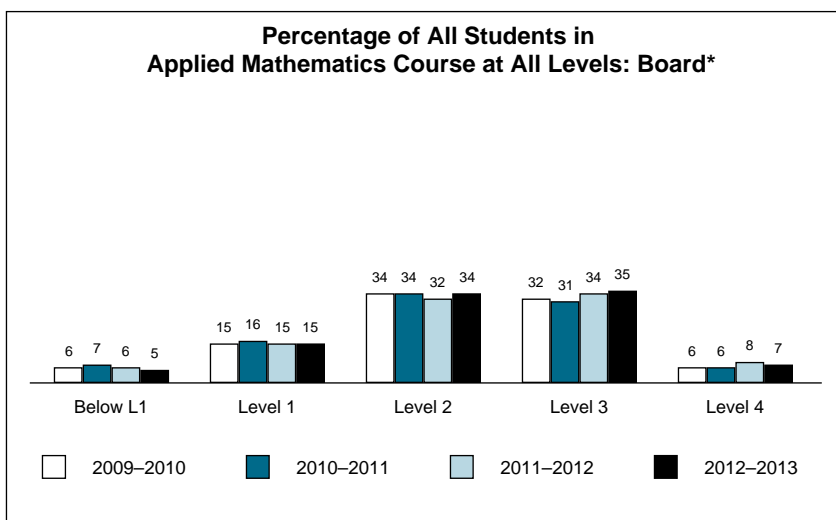
Results over Time, 2009–2010 to 2012–2013

### Applied Mathematics Course for All Students

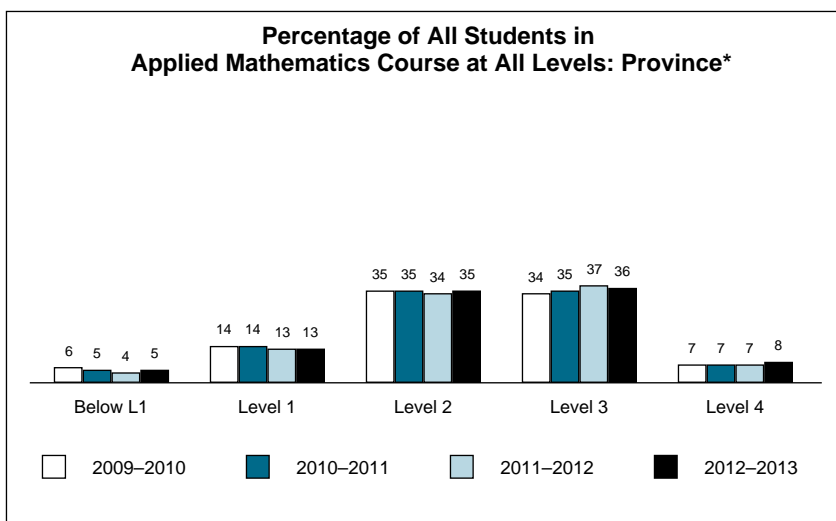
School*				
Year	'09-'10	'10-'11	'11-'12	'12-'13
<i>Number of Students</i>	<b>50</b>	<b>26</b>	<b>17</b>	<b>18</b>
<b>Level 4</b>	0%	8%	0%	6%
<b>Level 3</b>	22%	31%	41%	28%
<b>Level 2</b>	38%	38%	35%	39%
<b>Level 1</b>	24%	12%	18%	28%
<b>Below Level 1</b>	12%	4%	6%	0%
<i>Participating Students</i>	96%	92%	100%	100%
<b>No Data</b>	4%	8%	0%	0%
<b>At or Above Provincial Standard (Levels 3 and 4)†</b>	22%	38%	41%	33%



Board*				
Year	'09-'10	'10-'11	'11-'12	'12-'13
<i>Number of Students</i>	<b>1 099</b>	<b>1 074</b>	<b>1 040</b>	<b>1 100</b>
<b>Level 4</b>	6%	6%	8%	7%
<b>Level 3</b>	32%	31%	34%	35%
<b>Level 2</b>	34%	34%	32%	34%
<b>Level 1</b>	15%	16%	15%	15%
<b>Below Level 1</b>	6%	7%	6%	5%
<i>Participating Students</i>	94%	94%	94%	96%
<b>No Data</b>	6%	6%	6%	4%
<b>At or Above Provincial Standard (Levels 3 and 4)†</b>	38%	37%	42%	42%



Province*				
Year	'09-'10	'10-'11	'11-'12	'12-'13
<i>Number of Students</i>	<b>47 566</b>	<b>44 095</b>	<b>41 799</b>	<b>39 881</b>
<b>Level 4</b>	7%	7%	7%	8%
<b>Level 3</b>	34%	35%	37%	36%
<b>Level 2</b>	35%	35%	34%	35%
<b>Level 1</b>	14%	14%	13%	13%
<b>Below Level 1</b>	6%	5%	4%	5%
<i>Participating Students</i>	95%	95%	95%	96%
<b>No Data</b>	5%	5%	5%	4%
<b>At or Above Provincial Standard (Levels 3 and 4)†</b>	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 school'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	204	231	129	123	89	
Number of classes with students in academic mathematics course	8	9	5	5	4	
<b>Participation in the Assessment</b>						
Students who participated in the assessment	99%	98%	98%	98%	99%	
Participating students who received one or more accommodations*	12%	8%	9%	7%	12%	
Participating students who received one or more special provisions*	6%	2%	0%	0%	0%	
Students who did not complete any part of the assessment (no data)*	1%	2%	2%	2%	1%	
<b>Gender<sup>†</sup> Based on number of students enrolled</b>						
Female	47%	47%	53%	59%	46%	
Male	53%	53%	47%	41%	54%	
Gender not specified	0%	0%	0%	0%	0%	
<b>Student Status<sup>†</sup> Based on number of students enrolled</b>						
English language learners*	11%	8%	17%	11%	17%	
Students with special education needs (excluding gifted)*	13%	9%	9%	11%	12%	
<b>Semester/Full Year Based on number of students enrolled</b>						
First-semester course	49%	46%	42%	67%	25%	
Second-semester course	51%	54%	58%	33%	75%	
Full-year course	0%	0%	0%	0%	0%	
<b>Language and School Background<sup>††</sup> Based on Student Questionnaire data</b>						
	Number of Respondents:	196	223	121	114	83
Speak only or mostly a language other than English at home	13%	11%	9%	9%	6%	
Speak another language as often as English at home	20%	22%	20%	20%	20%	
Attended three or more elementary schools from kindergarten to Grade 8	36%	30%	30%	32%	34%	

\* See the Explanation of Terms.

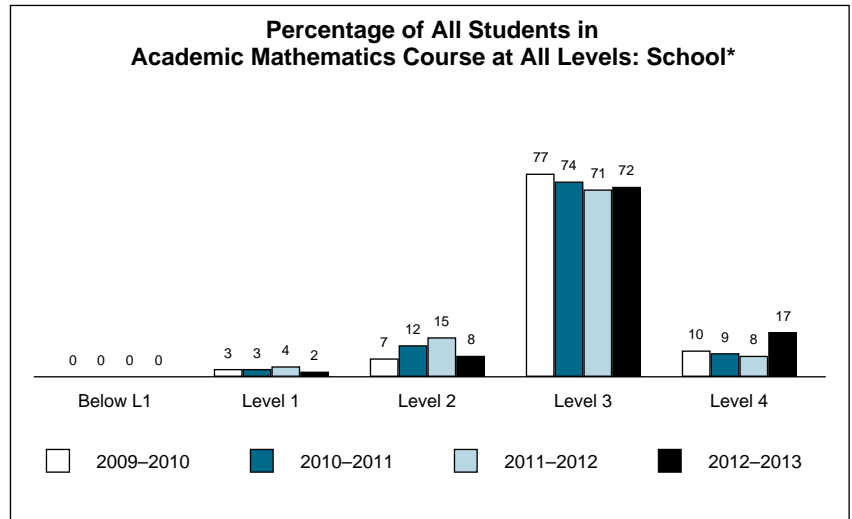
† Contextual data pertaining to "gender" and "student status" are provided by schools and/or boards through the Student Data Collection process. Some data may be missing because they were not provided by the school or the board.

†† 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.

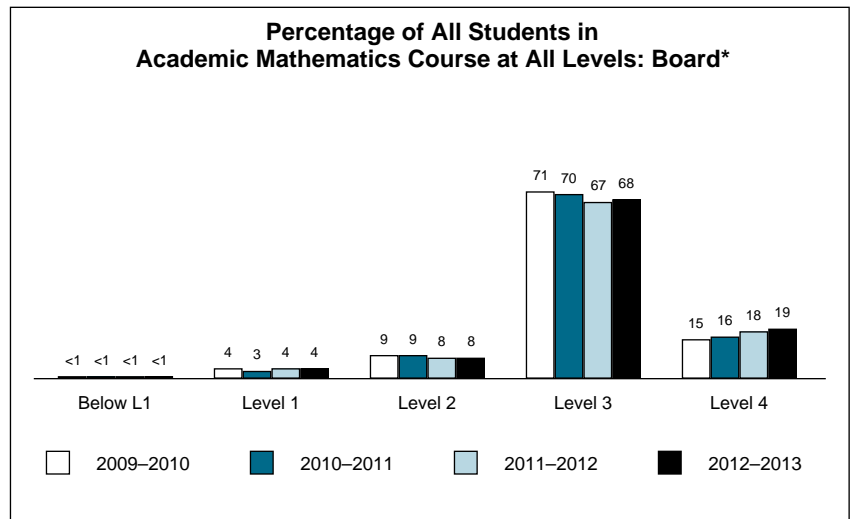
Results over Time, 2009–2010 to 2012–2013

Academic Mathematics Course for All Students

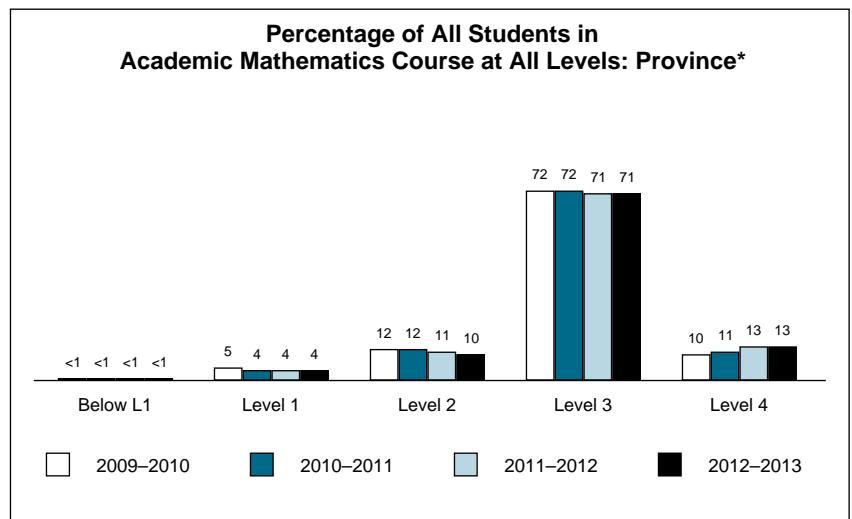
School*				
Year	'09-'10	'10-'11	'11-'12	'12-'13
<i>Number of Students</i>	231	129	123	89
Level 4	10%	9%	8%	17%
Level 3	77%	74%	71%	72%
Level 2	7%	12%	15%	8%
Level 1	3%	3%	4%	2%
Below Level 1	0%	0%	0%	0%
<i>Participating Students</i>	98%	98%	98%	99%
No Data	2%	2%	2%	1%
<b>At or Above Provincial Standard (Levels 3 and 4)†</b>	87%	83%	79%	89%



Board*				
Year	'09-'10	'10-'11	'11-'12	'12-'13
<i>Number of Students</i>	4 159	4 125	4 076	4 102
Level 4	15%	16%	18%	19%
Level 3	71%	70%	67%	68%
Level 2	9%	9%	8%	8%
Level 1	4%	3%	4%	4%
Below Level 1	<1%	<1%	<1%	<1%
<i>Participating Students</i>	99%	99%	99%	99%
No Data	1%	1%	1%	1%
<b>At or Above Provincial Standard (Levels 3 and 4)†</b>	86%	86%	86%	86%



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%
<b>At or Above Provincial Standard (Levels 3 and 4)†</b>	82%	83%	84%	84%

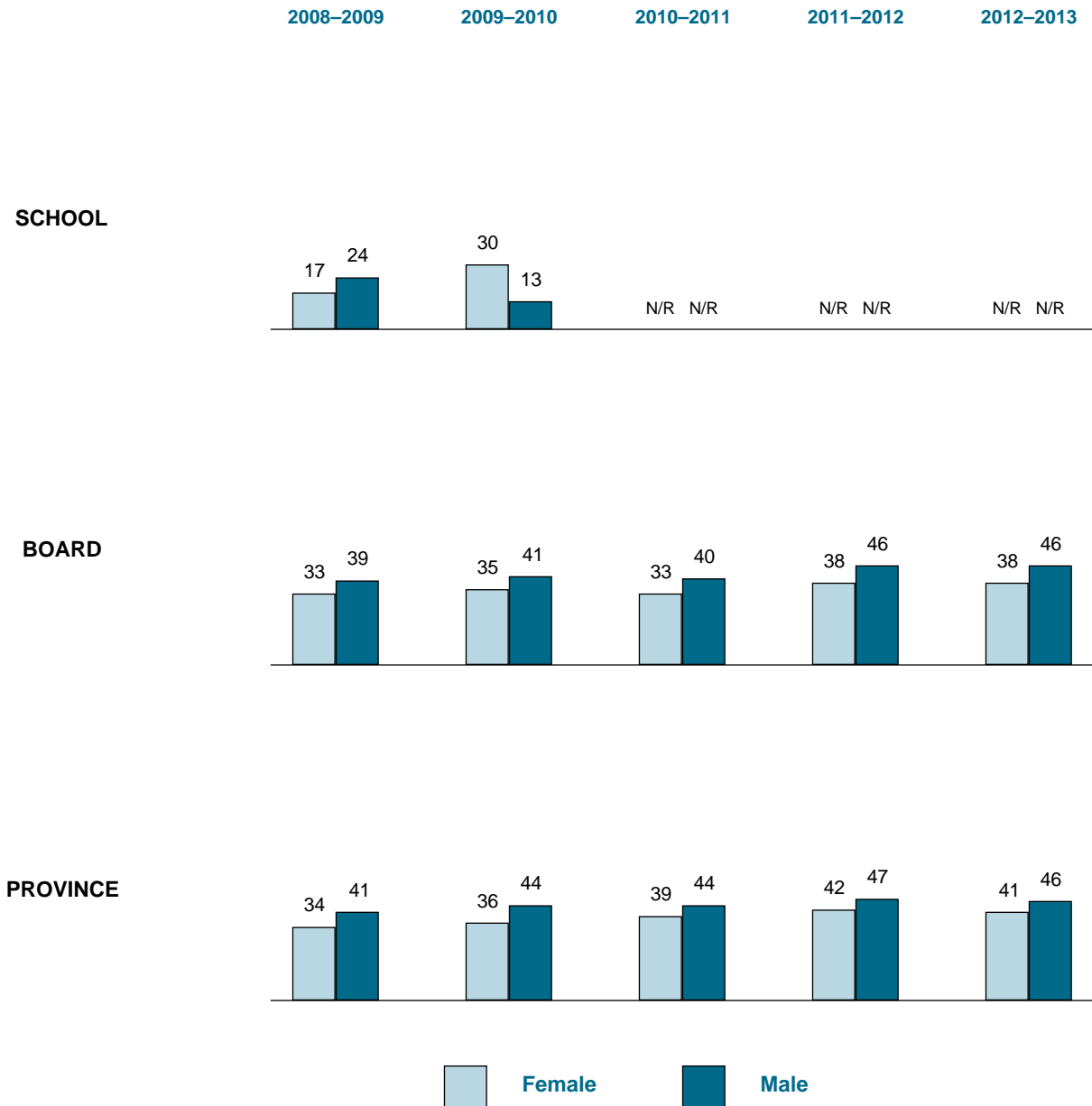


\* Because percentages in tables and graphs are rounded, and because graphs do not show all reporting categories, percentages may not add to 100.

† 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**



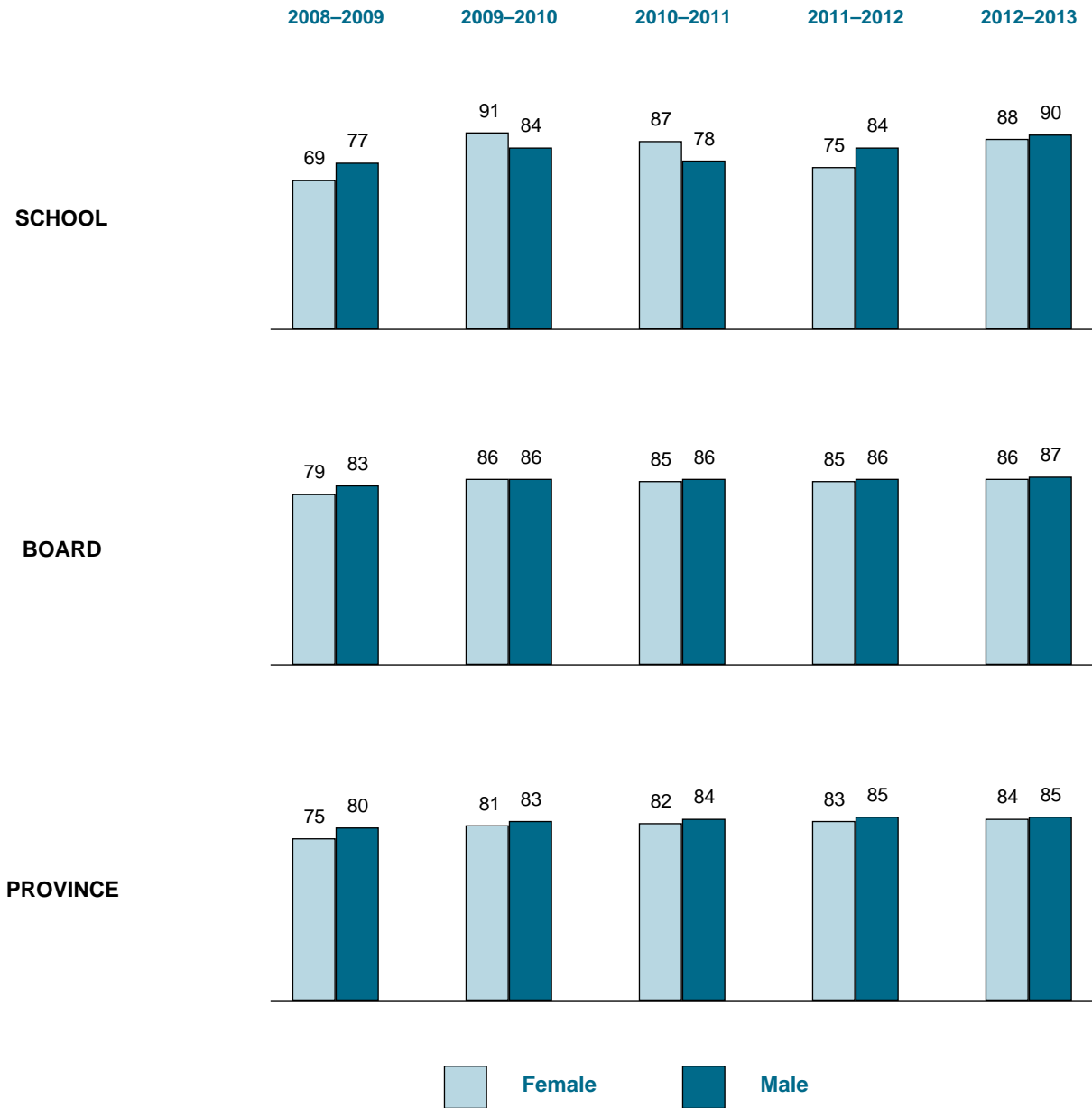
**Total Number of Students in Applied Mathematics Course†**

	2008-2009		2009-2010		2010-2011		2011-2012		2012-2013	
	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
School	24	33	27	23	12	14	10	7	8	10
Board	527	701	502	597	464	610	488	552	505	595
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
School	95	109	109	122	69	60	72	51	41	48
Board	2 061	2 013	2 077	2 082	2 044	2 081	2 086	1 990	2 052	2 044
Province	51 554	49 438	51 972	49 296	50 814	48 464	50 134	47 607	49 986	47 171


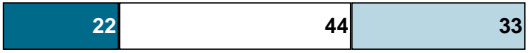
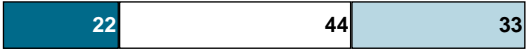

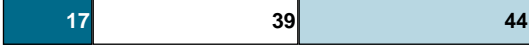




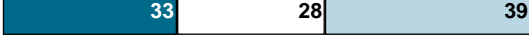
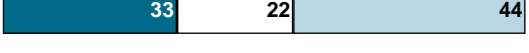
† Includes only students for whom gender data were available.

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

**STUDENT QUESTIONNAIRE RESULTS FOR THIS SCHOOL (# = 18)**

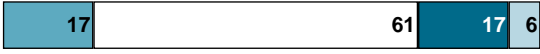



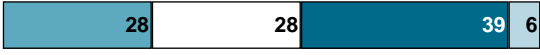
**Strongly Disagree/Disagree**   
  **Neither agree nor disagree**   
  **Agree/Strongly agree**

**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.		6
I am good at mathematics.		6
I am able to answer difficult mathematics questions.		6
Mathematics is one of my favourite subjects.		3
I understand most of the mathematics I am taught.		8
Mathematics is an easy subject.		2
I try to do my best in mathematics class.		13
The mathematics I learn now is useful for everyday life.		5
The mathematics I learn now helps me do work in other subjects.		10
I need to do well in mathematics to study what I want later.		7
I need to keep taking mathematics for the kind of job I want after I leave school.		8

**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)		1
algebra (e.g., solving equations, simplifying expressions with polynomials)		3
linear relations (e.g., scatter plots, lines of best fit)		2
measurement (e.g., perimeter, area, volume)		3
geometry (e.g., angles, parallel lines)		1

\* 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.

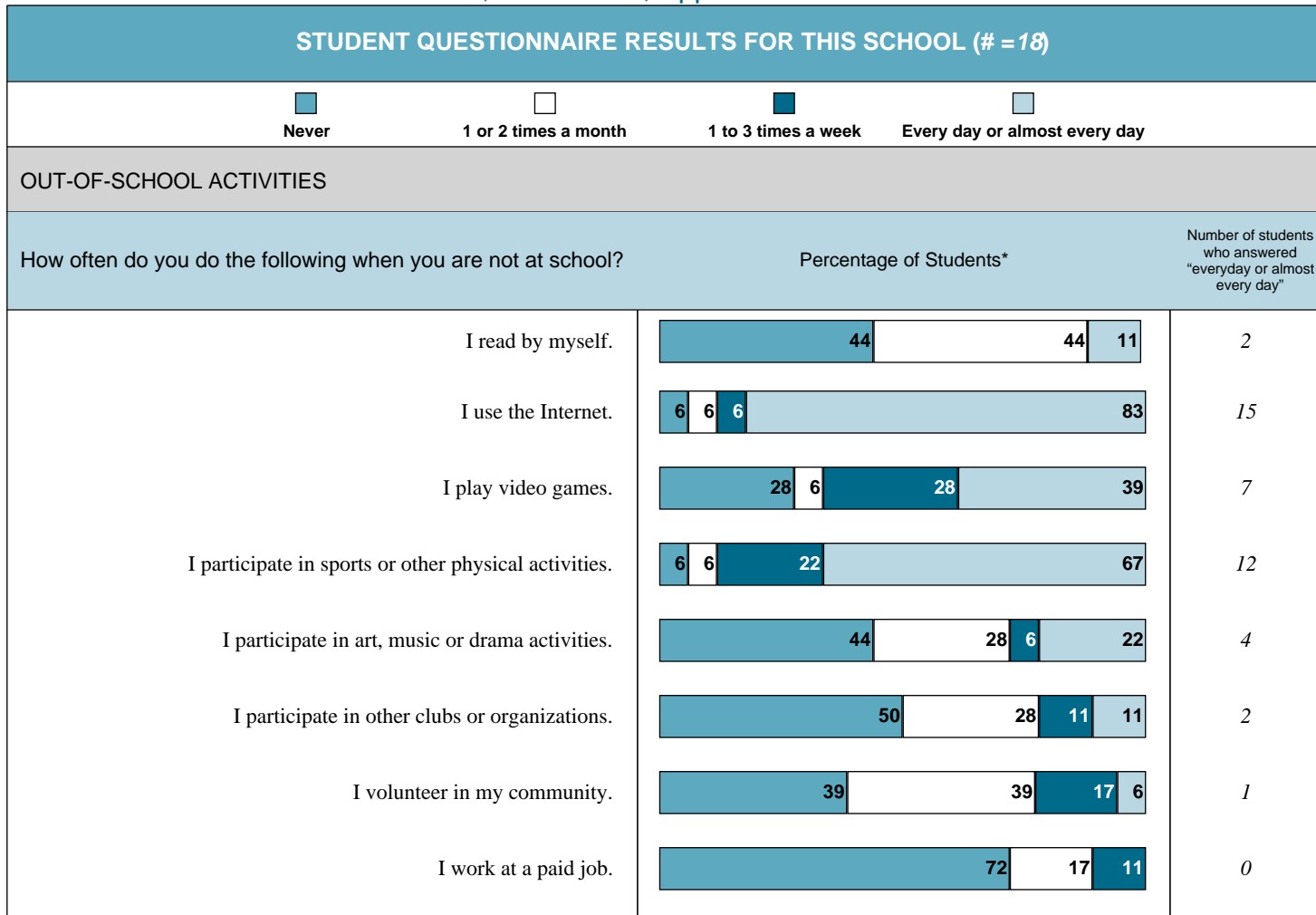


Grade 9 Assessment of Mathematics, 2012–2013, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS SCHOOL (# = 18)					
	<input type="checkbox"/> Never or almost never	<input type="checkbox"/> Sometimes	<input checked="" type="checkbox"/> Often	<input type="checkbox"/> 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.	22	44	28	6	1
I check my mathematics answers to see if they make sense.	17	17	56	11	2
I apply new mathematics concepts to real-life problems.	50	28	11	11	2
I take time to discuss my mathematics assignments with my classmates.	33	39	28		0
I look for more than one way to solve mathematics problems.	28	33	39		0
How often do you complete your mathematics homework?	Percentage of Students*			Number of students	
I am not usually assigned any mathematics homework			28		5
Never or almost never		17			3
Sometimes		17			3
Often			33		6
Always			6		1

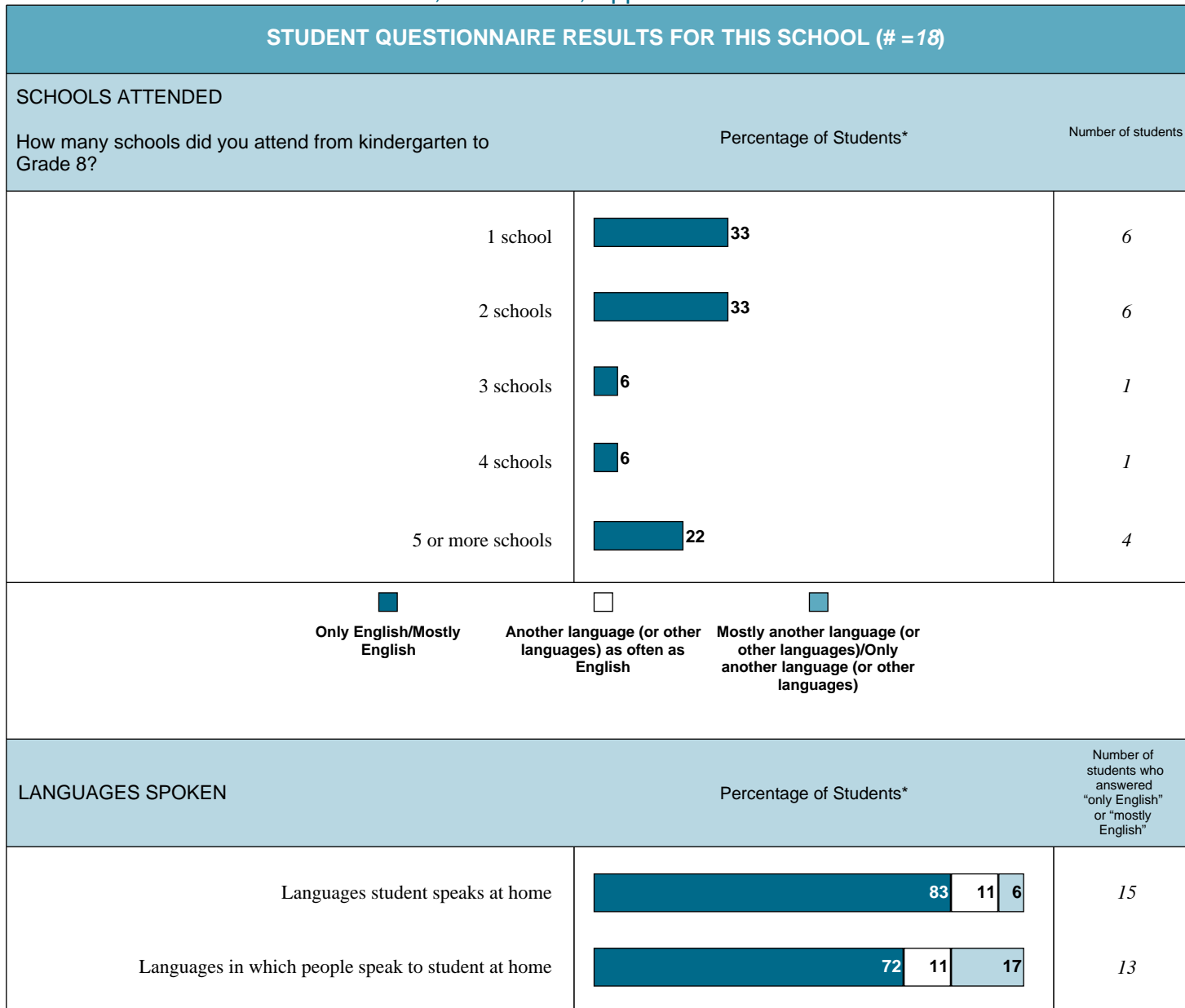
\* Percentages may not add to 100, due to rounding or to ambiguous responses or blanks. Where there is no number in a bar, the percentage of responses is smaller than four.

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 SCHOOL (# = 18)		
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	44	8
No	6	1
Don't know	50	9
<i>Total number of students:</i>		<b>8</b>
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	62	5
No	38	3
<i>Total number of students:</i>		<b>8</b>
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	62	5
No	38	3
Undecided	0	0

\* 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 SCHOOL, BOARD AND PROVINCE (all students, female, male)	School			Board			Province		
	All Students (# = 18)	Female* (# = 8)	Male* (# = 10)	All Students (# = 933)	Female* (# = 431)	Male* (# = 502)	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.	<b>33%</b>	12%	50%	<b>34%</b>	25%	41%	<b>34%</b>	27%	40%
I am good at mathematics.	<b>33%</b>	12%	50%	<b>31%</b>	19%	41%	<b>35%</b>	27%	41%
I am able to answer difficult mathematics questions.	<b>33%</b>	12%	50%	<b>21%</b>	12%	28%	<b>23%</b>	15%	29%
Mathematics is one of my favourite subjects.	<b>17%</b>	12%	20%	<b>20%</b>	14%	25%	<b>21%</b>	17%	25%
I understand most of the mathematics I am taught.	<b>44%</b>	25%	60%	<b>57%</b>	51%	62%	<b>61%</b>	57%	65%
Mathematics is an easy subject.	<b>11%</b>	12%	10%	<b>18%</b>	12%	22%	<b>20%</b>	14%	24%
I try to do my best in mathematics class.	<b>72%</b>	75%	70%	<b>76%</b>	79%	73%	<b>80%</b>	84%	76%
The mathematics I learn now is useful for everyday life.	<b>28%</b>	25%	30%	<b>35%</b>	31%	39%	<b>38%</b>	33%	42%
The mathematics I learn now helps me do work in other subjects.	<b>56%</b>	50%	60%	<b>45%</b>	45%	45%	<b>45%</b>	43%	47%
I need to do well in mathematics to study what I want later.	<b>39%</b>	25%	50%	<b>49%</b>	42%	55%	<b>51%</b>	48%	53%
I need to keep taking mathematics for the kind of job I want after I leave school.	<b>44%</b>	25%	60%	<b>42%</b>	33%	50%	<b>45%</b>	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)	<b>22%</b>	0%	40%	<b>41%</b>	32%	49%	<b>46%</b>	38%	53%
algebra (e.g., solving equations, simplifying expressions with polynomials)	<b>56%</b>	38%	70%	<b>42%</b>	35%	49%	<b>45%</b>	41%	49%
linear relations (e.g., scatter plots, lines of best fit)	<b>56%</b>	38%	70%	<b>59%</b>	51%	66%	<b>60%</b>	54%	64%
measurement (e.g., perimeter, area, volume)	<b>56%</b>	62%	50%	<b>66%</b>	64%	69%	<b>68%</b>	64%	71%
geometry (e.g., angles, parallel lines)	<b>44%</b>	38%	50%	<b>51%</b>	43%	58%	<b>48%</b>	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 SCHOOL, BOARD AND PROVINCE (all students, female, male)	School			Board			Province		
	All Students (# = 18)	Female* (# = 8)	Male* (# = 10)	All Students (# = 933)	Female* (# = 431)	Male* (# = 502)	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.	<b>6%</b>	0%	10%	<b>7%</b>	6%	8%	<b>6%</b>	4%	6%
I check my mathematics answers to see if they make sense.	<b>11%</b>	12%	10%	<b>18%</b>	19%	17%	<b>18%</b>	19%	17%
I apply new mathematics concepts to real-life problems.	<b>11%</b>	0%	20%	<b>6%</b>	5%	8%	<b>5%</b>	3%	6%
I take time to discuss my mathematics assignments with my classmates.	<b>0%</b>	0%	0%	<b>5%</b>	4%	6%	<b>6%</b>	6%	6%
I look for more than one way to solve mathematics problems.	<b>0%</b>	0%	0%	<b>12%</b>	10%	13%	<b>12%</b>	10%	13%
Percentage of students indicating they complete their mathematics homework at the following frequencies: ‡									
I am not usually assigned any mathematics homework	<b>28%</b>	25%	30%	<b>15%</b>	13%	17%	<b>11%</b>	11%	12%
Never or almost never	<b>17%</b>	25%	10%	<b>10%</b>	8%	11%	<b>8%</b>	7%	10%
Sometimes	<b>17%</b>	25%	10%	<b>27%</b>	29%	26%	<b>28%</b>	26%	29%
Often	<b>33%</b>	25%	40%	<b>28%</b>	27%	29%	<b>32%</b>	33%	31%
Always	<b>6%</b>	0%	10%	<b>17%</b>	20%	14%	<b>18%</b>	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 SCHOOL, BOARD AND PROVINCE (all students, female, male)	School			Board			Province		
	All Students (# = 18)	Female* (# = 8)	Male* (# = 10)	All Students (# = 933)	Female* (# = 431)	Male* (# = 502)	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.	<b>11%</b>	12%	10%	<b>20%</b>	23%	18%	<b>19%</b>	26%	14%
I use the Internet.	<b>83%</b>	100%	70%	<b>73%</b>	77%	69%	<b>74%</b>	78%	70%
I play video games.	<b>39%</b>	25%	50%	<b>29%</b>	10%	45%	<b>29%</b>	10%	43%
I participate in sports or other physical activities.	<b>67%</b>	50%	80%	<b>35%</b>	25%	44%	<b>35%</b>	26%	43%
I participate in art, music or drama activities.	<b>22%</b>	38%	10%	<b>17%</b>	19%	15%	<b>18%</b>	24%	13%
I participate in other clubs or organizations.	<b>11%</b>	25%	0%	<b>8%</b>	7%	9%	<b>8%</b>	7%	9%
I volunteer in my community.	<b>6%</b>	12%	0%	<b>6%</b>	7%	5%	<b>5%</b>	6%	5%
I work at a paid job.	<b>0%</b>	0%	0%	<b>7%</b>	4%	10%	<b>8%</b>	6%	9%
<b>SCHOOLS ATTENDED</b>									
Percentage of students indicating the number of schools they attended from kindergarten to Grade 8: ‡									
1 school	<b>33%</b>	12%	50%	<b>12%</b>	12%	12%	<b>26%</b>	25%	26%
2 schools	<b>33%</b>	62%	10%	<b>29%</b>	31%	27%	<b>30%</b>	30%	29%
3 schools	<b>6%</b>	0%	10%	<b>24%</b>	23%	26%	<b>20%</b>	20%	20%
4 schools	<b>6%</b>	0%	10%	<b>14%</b>	14%	14%	<b>11%</b>	11%	11%
5 or more schools	<b>22%</b>	25%	20%	<b>17%</b>	16%	17%	<b>12%</b>	12%	11%
<b>LANGUAGES SPOKEN</b>									
Percentage of students indicating that they speak the following languages at home: ‡									
Only English/Mostly English	<b>83%</b>	88%	80%	<b>72%</b>	70%	74%	<b>79%</b>	79%	79%
Another language (or other languages) as often as English	<b>11%</b>	0%	20%	<b>16%</b>	17%	15%	<b>13%</b>	14%	12%
Mostly another language (or other languages)/ Only another language (or other languages)	<b>6%</b>	12%	0%	<b>9%</b>	10%	8%	<b>6%</b>	6%	7%
Percentage of students indicating the languages people speak to them at home: ‡									
Only English/Mostly English	<b>72%</b>	62%	80%	<b>72%</b>	69%	74%	<b>75%</b>	75%	75%
Another language (or other languages) as often as English	<b>11%</b>	12%	10%	<b>11%</b>	11%	11%	<b>12%</b>	12%	11%
Mostly another language (or other languages)/ Only another language (or other languages)	<b>17%</b>	25%	10%	<b>12%</b>	14%	11%	<b>10%</b>	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 SCHOOL, BOARD AND PROVINCE (all students, female, male)	School			Board			Province		
	All Students (# = 18)	Female* (# = 8)	Male* (# = 10)	All Students (# = 933)	Female* (# = 431)	Male* (# = 502)	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	<b>44%</b>	62%	30%	<b>42%</b>	46%	40%	<b>44%</b>	46%	42%
No	<b>6%</b>	0%	10%	<b>1%</b>	1%	2%	<b>2%</b>	2%	3%
Don't know	<b>50%</b>	38%	60%	<b>52%</b>	48%	56%	<b>51%</b>	49%	53%
Percentage of students indicating they were told how much the assessment will count as part of their class mark: ††									
	All Students (# = 8)	Female* (# = 5)	Male* (# = 3)	All Students (# = 396)	Female* (# = 197)	Male* (# = 199)	All Students (# = 14 800)	Female* (# = 6 991)	Male* (# = 7 807)
Yes	<b>62%</b>	60%	67%	<b>81%</b>	82%	80%	<b>88%</b>	89%	88%
No	<b>38%</b>	40%	33%	<b>19%</b>	18%	19%	<b>11%</b>	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 (# = 8)	Female* (# = 5)	Male* (# = 3)	All Students (# = 396)	Female* (# = 197)	Male* (# = 199)	All Students (# = 14 800)	Female* (# = 6 991)	Male* (# = 7 807)
Yes	<b>62%</b>	80%	33%	<b>73%</b>	73%	74%	<b>76%</b>	78%	75%
No	<b>38%</b>	20%	67%	<b>11%</b>	13%	10%	<b>9%</b>	7%	12%
Undecided	<b>0%</b>	0%	0%	<b>15%</b>	15%	16%	<b>14%</b>	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.


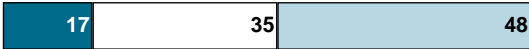

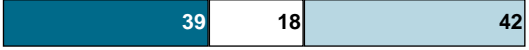









Grade 9 Assessment of Mathematics, 2012–2013, Academic Course

**STUDENT QUESTIONNAIRE RESULTS FOR THIS SCHOOL (# =83)**





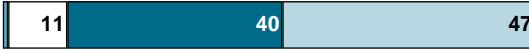

**Strongly Disagree/Disagree**    
  **Neither agree nor disagree**    
  **Agree/Strongly agree**

**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.		45
I am good at mathematics.		40
I am able to answer difficult mathematics questions.		47
Mathematics is one of my favourite subjects.		35
I understand most of the mathematics I am taught.		67
Mathematics is an easy subject.		29
I try to do my best in mathematics class.		70
The mathematics I learn now is useful for everyday life.		30
The mathematics I learn now helps me do work in other subjects.		54
I need to do well in mathematics to study what I want later.		56
I need to keep taking mathematics for the kind of job I want after I leave school.		59

**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)		25
algebra (e.g., solving equations, simplifying expressions with polynomials)		30
linear relations (e.g., scatter plots, lines of best fit)		16
analytic geometry (e.g., slope, y-intercept, equations of lines)		26
measurement (e.g., perimeter, area, volume)		39
geometry (e.g., angles, parallel lines)		31

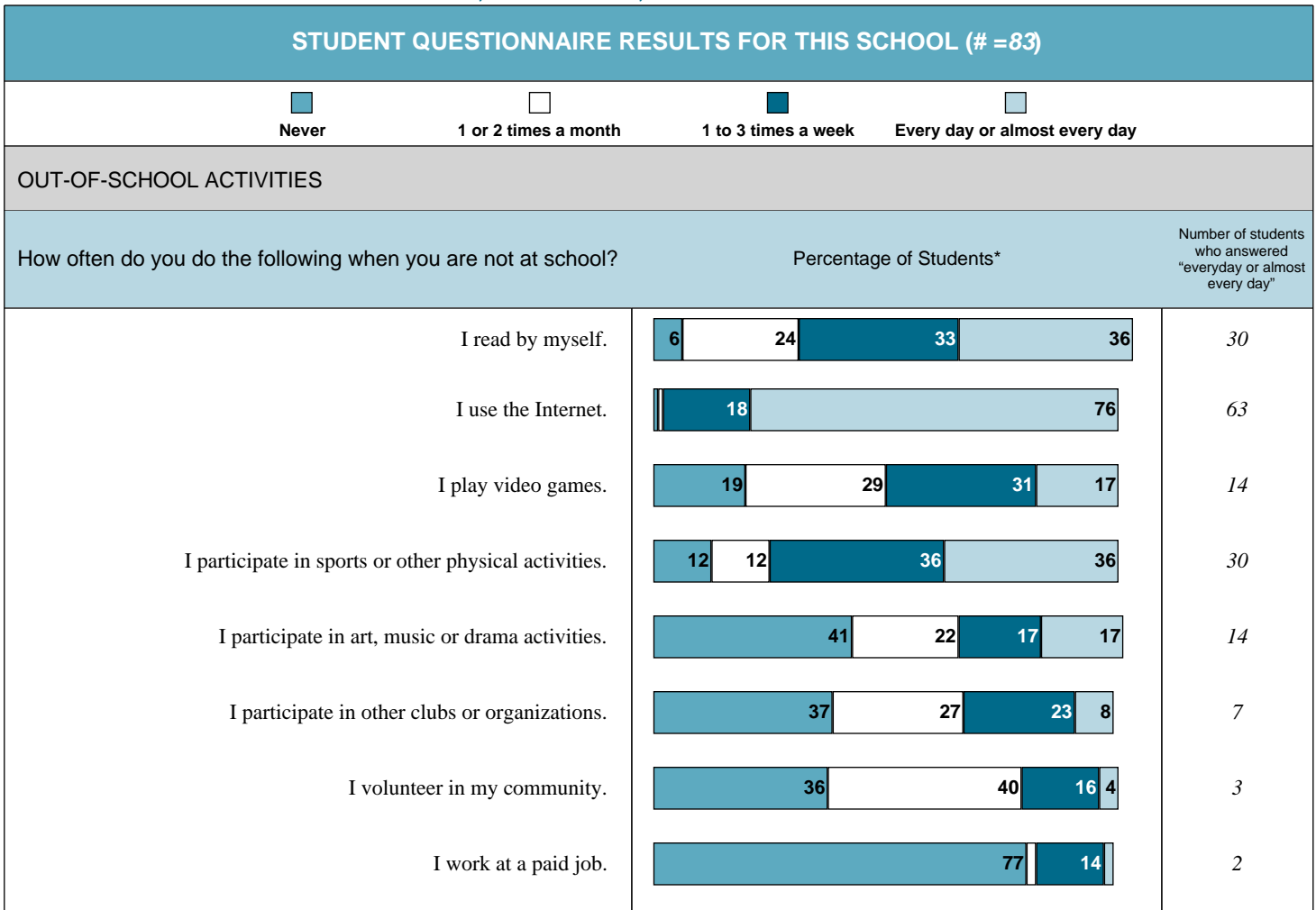
\* Percentages may not add to 100, due to rounding or to ambiguous responses or blanks. Where there is no number in a bar, the percentage of responses is smaller than four.

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

STUDENT QUESTIONNAIRE RESULTS FOR THIS SCHOOL (# =83)					
	<input type="checkbox"/> Never or almost never	<input type="checkbox"/> Sometimes	<input checked="" type="checkbox"/> Often	<input type="checkbox"/> 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.	6	28	53	12	10
I check my mathematics answers to see if they make sense.	24	33	40		33
I apply new mathematics concepts to real-life problems.	30	46	17	6	5
I take time to discuss my mathematics assignments with my classmates.	29	33	28	10	8
I look for more than one way to solve mathematics problems.	7	33	39	19	16
How often do you complete your mathematics homework?	Percentage of Students*			Number of students	
I am not usually assigned any mathematics homework	0				0
Never or almost never	0				0
Sometimes		12			10
Often			46		38
Always				41	34

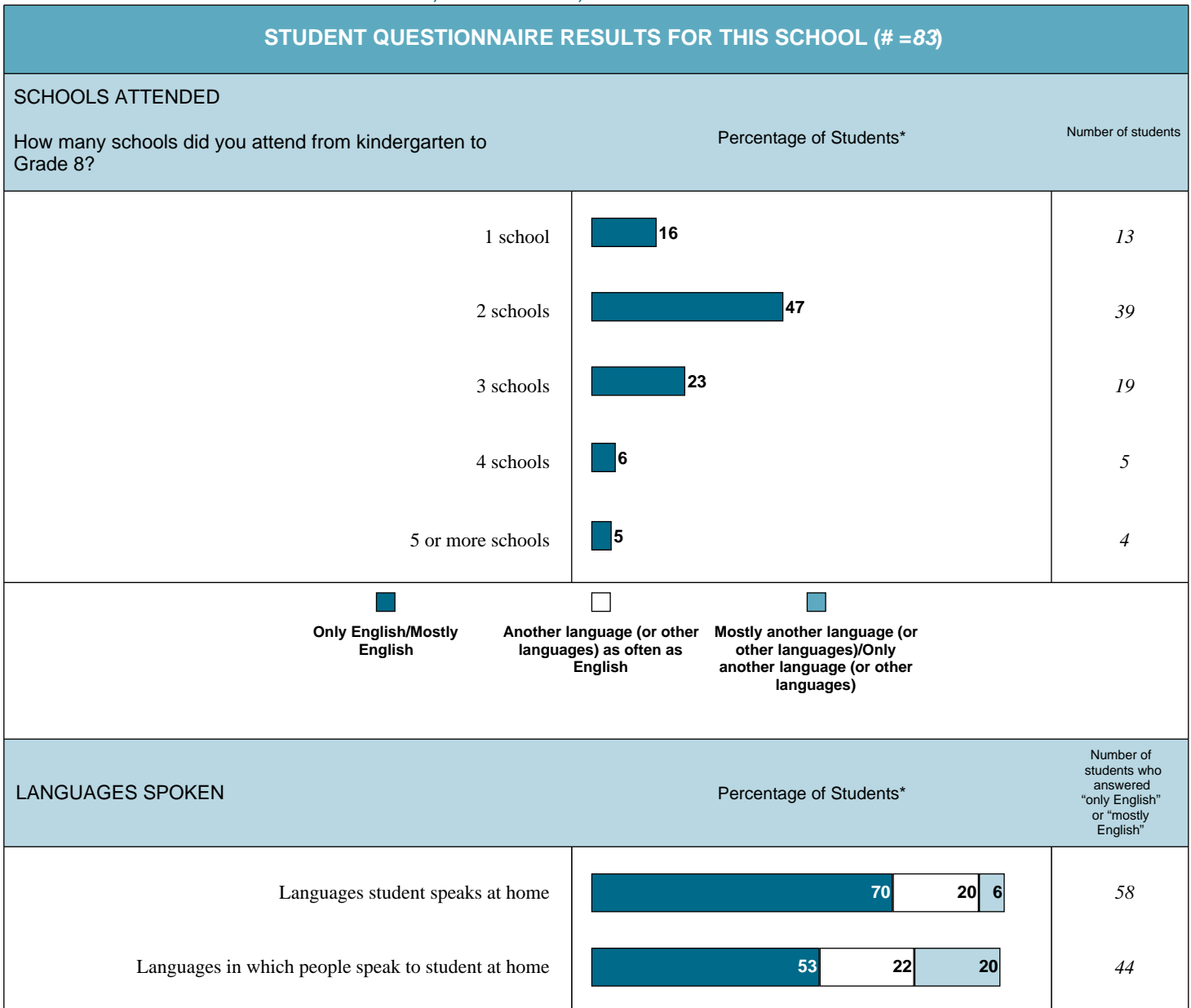
\* Percentages may not add to 100, due to rounding or to ambiguous responses or blanks. Where there is no number in a bar, the percentage of responses is smaller than four.

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 SCHOOL (# =83)		
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	71	59
No	2	2
Don't know	22	18
<i>Total number of students:</i>		<b>59</b>
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	78	46
No	22	13
<i>Total number of students:</i>		<b>59</b>
Does counting the Grade 9 Assessment of Mathematics as part of your class mark motivate you to take the assessment more seriously? †	Percentage of Students*	Number of students
Yes	78	46
No	8	5
Undecided	14	8

\* 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 SCHOOL, BOARD AND PROVINCE (all students, female, male)	School			Board			Province		
	All Students (# = 83)	Female* (# = 39)	Male* (# = 44)	All Students (# = 3 730)	Female* (# = 1 865)	Male* (# = 1 860)	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.	<b>54%</b>	41%	66%	<b>56%</b>	50%	61%	<b>56%</b>	50%	62%
I am good at mathematics.	<b>48%</b>	36%	59%	<b>56%</b>	49%	63%	<b>56%</b>	49%	63%
I am able to answer difficult mathematics questions.	<b>57%</b>	41%	70%	<b>50%</b>	40%	60%	<b>47%</b>	38%	56%
Mathematics is one of my favourite subjects.	<b>42%</b>	41%	43%	<b>40%</b>	35%	45%	<b>39%</b>	34%	45%
I understand most of the mathematics I am taught.	<b>81%</b>	82%	80%	<b>76%</b>	72%	80%	<b>75%</b>	72%	78%
Mathematics is an easy subject.	<b>35%</b>	28%	41%	<b>30%</b>	24%	36%	<b>31%</b>	25%	37%
I try to do my best in mathematics class.	<b>84%</b>	87%	82%	<b>85%</b>	90%	81%	<b>85%</b>	89%	81%
The mathematics I learn now is useful for everyday life.	<b>36%</b>	28%	43%	<b>37%</b>	32%	42%	<b>36%</b>	32%	42%
The mathematics I learn now helps me do work in other subjects.	<b>65%</b>	56%	73%	<b>58%</b>	55%	61%	<b>56%</b>	54%	58%
I need to do well in mathematics to study what I want later.	<b>67%</b>	64%	70%	<b>65%</b>	61%	69%	<b>64%</b>	61%	68%
I need to keep taking mathematics for the kind of job I want after I leave school.	<b>71%</b>	67%	75%	<b>59%</b>	55%	63%	<b>59%</b>	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)	<b>64%</b>	49%	77%	<b>71%</b>	63%	79%	<b>71%</b>	64%	78%
algebra (e.g., solving equations, simplifying expressions with polynomials)	<b>67%</b>	59%	75%	<b>72%</b>	68%	75%	<b>71%</b>	69%	74%
linear relations (e.g., scatter plots, lines of best fit)	<b>59%</b>	41%	75%	<b>64%</b>	58%	70%	<b>60%</b>	53%	67%
analytic geometry (e.g., slope, y-intercept, equations of lines)	<b>59%</b>	49%	68%	<b>67%</b>	62%	71%	<b>61%</b>	57%	66%
measurement (e.g., perimeter, area, volume)	<b>87%</b>	90%	84%	<b>80%</b>	76%	84%	<b>81%</b>	77%	85%
geometry (e.g., angles, parallel lines)	<b>75%</b>	67%	82%	<b>73%</b>	69%	78%	<b>71%</b>	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 SCHOOL, BOARD AND PROVINCE (all students, female, male)	School			Board			Province		
	All Students (# = 83)	Female* (# = 39)	Male* (# = 44)	All Students (# = 3 730)	Female* (# = 1 865)	Male* (# = 1 860)	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.	<b>12%</b>	8%	16%	<b>15%</b>	13%	17%	<b>13%</b>	12%	14%
I check my mathematics answers to see if they make sense.	<b>40%</b>	31%	48%	<b>32%</b>	35%	30%	<b>31%</b>	33%	28%
I apply new mathematics concepts to real-life problems.	<b>6%</b>	5%	7%	<b>7%</b>	4%	9%	<b>6%</b>	4%	8%
I take time to discuss my mathematics assignments with my classmates.	<b>10%</b>	10%	9%	<b>11%</b>	12%	10%	<b>11%</b>	11%	10%
I look for more than one way to solve mathematics problems.	<b>19%</b>	10%	27%	<b>13%</b>	10%	16%	<b>14%</b>	12%	17%
Percentage of students indicating they complete their mathematics homework at the following frequencies: ‡									
I am not usually assigned any mathematics homework	<b>0%</b>	0%	0%	<b>2%</b>	2%	1%	<b>1%</b>	1%	2%
Never or almost never	<b>0%</b>	0%	0%	<b>5%</b>	3%	7%	<b>6%</b>	4%	8%
Sometimes	<b>12%</b>	13%	11%	<b>21%</b>	17%	25%	<b>21%</b>	18%	25%
Often	<b>46%</b>	38%	52%	<b>39%</b>	38%	41%	<b>38%</b>	38%	38%
Always	<b>41%</b>	46%	36%	<b>31%</b>	37%	24%	<b>31%</b>	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 SCHOOL, BOARD AND PROVINCE (all students, female, male)	School			Board			Province		
	All Students (# = 83)	Female* (# = 39)	Male* (# = 44)	All Students (# = 3 730)	Female* (# = 1 865)	Male* (# = 1 860)	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.	<b>36%</b>	46%	27%	<b>33%</b>	38%	28%	<b>26%</b>	33%	19%
I use the Internet.	<b>76%</b>	79%	73%	<b>83%</b>	84%	83%	<b>80%</b>	82%	78%
I play video games.	<b>17%</b>	5%	27%	<b>22%</b>	5%	39%	<b>22%</b>	6%	39%
I participate in sports or other physical activities.	<b>36%</b>	21%	50%	<b>39%</b>	35%	44%	<b>40%</b>	33%	47%
I participate in art, music or drama activities.	<b>17%</b>	21%	14%	<b>20%</b>	25%	16%	<b>20%</b>	24%	14%
I participate in other clubs or organizations.	<b>8%</b>	5%	11%	<b>9%</b>	8%	9%	<b>11%</b>	10%	11%
I volunteer in my community.	<b>4%</b>	8%	0%	<b>4%</b>	4%	4%	<b>4%</b>	5%	4%
I work at a paid job.	<b>2%</b>	3%	2%	<b>3%</b>	3%	4%	<b>4%</b>	4%	5%
<b>SCHOOLS ATTENDED</b>									
Percentage of students indicating the number of schools they attended from kindergarten to Grade 8: ‡									
1 school	<b>16%</b>	15%	16%	<b>13%</b>	13%	13%	<b>27%</b>	27%	27%
2 schools	<b>47%</b>	44%	50%	<b>35%</b>	35%	34%	<b>32%</b>	32%	32%
3 schools	<b>23%</b>	26%	20%	<b>24%</b>	23%	25%	<b>19%</b>	19%	20%
4 schools	<b>6%</b>	8%	5%	<b>13%</b>	13%	13%	<b>10%</b>	10%	10%
5 or more schools	<b>5%</b>	3%	7%	<b>11%</b>	9%	12%	<b>8%</b>	8%	8%
<b>LANGUAGES SPOKEN</b>									
Percentage of students indicating that they speak the following languages at home: ‡									
Only English/Mostly English	<b>70%</b>	74%	66%	<b>68%</b>	67%	69%	<b>72%</b>	73%	71%
Another language (or other languages) as often as English	<b>20%</b>	21%	20%	<b>18%</b>	18%	17%	<b>16%</b>	16%	16%
Mostly another language (or other languages)/ Only another language (or other languages)	<b>6%</b>	0%	11%	<b>10%</b>	9%	11%	<b>9%</b>	8%	10%
Percentage of students indicating the languages people speak to them at home: ‡									
Only English/Mostly English	<b>53%</b>	54%	52%	<b>62%</b>	61%	63%	<b>66%</b>	67%	65%
Another language (or other languages) as often as English	<b>22%</b>	21%	23%	<b>15%</b>	15%	15%	<b>15%</b>	15%	14%
Mostly another language (or other languages)/ Only another language (or other languages)	<b>20%</b>	18%	23%	<b>17%</b>	17%	18%	<b>15%</b>	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 SCHOOL, BOARD AND PROVINCE (all students, female, male)	School			Board			Province		
	All Students (# = 83)	Female* (# = 39)	Male* (# = 44)	All Students (# = 3 730)	Female* (# = 1 865)	Male* (# = 1 860)	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	<b>71%</b>	74%	68%	<b>71%</b>	72%	69%	<b>69%</b>	71%	66%
No	<b>2%</b>	5%	0%	<b>2%</b>	2%	2%	<b>2%</b>	1%	2%
Don't know	<b>22%</b>	13%	30%	<b>23%</b>	20%	26%	<b>26%</b>	23%	28%
Percentage of students indicating they were told how much the assessment will count as part of their class mark: ††									
	All Students (# = 59)	Female* (# = 29)	Male* (# = 30)	All Students (# = 2 633)	Female* (# = 1 340)	Male* (# = 1 290)	All Students (# = 61 078)	Female* (# = 32 680)	Male* (# = 28 397)
Yes	<b>78%</b>	76%	80%	<b>89%</b>	88%	89%	<b>94%</b>	94%	93%
No	<b>22%</b>	24%	20%	<b>11%</b>	12%	10%	<b>6%</b>	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 (# = 59)	Female* (# = 29)	Male* (# = 30)	All Students (# = 2 633)	Female* (# = 1 340)	Male* (# = 1 290)	All Students (# = 61 078)	Female* (# = 32 680)	Male* (# = 28 397)
Yes	<b>78%</b>	83%	73%	<b>78%</b>	81%	74%	<b>78%</b>	80%	75%
No	<b>8%</b>	7%	10%	<b>11%</b>	8%	14%	<b>10%</b>	7%	13%
Undecided	<b>14%</b>	10%	17%	<b>11%</b>	11%	12%	<b>12%</b>	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

**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 *The Ontario Curriculum, Grades 9 and 10: Mathematics*, 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 *above* the provincial standard.

**Level 3 (70–79%)** The student has demonstrated a high level of achievement. Achievement is *at* the provincial standard.

**Level 2 (60–69%)** The student has demonstrated some of the required knowledge and skills. Achievement is *below, but approaching*, the provincial standard.

**Level 1 (50–59%)** The student has demonstrated a passable level of achievement. Achievement is *below* 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 *English Language Learners: ESL and ELD Programs and Services: Policies and Procedures for Ontario Elementary and Secondary Schools, Kindergarten to Grade 12 (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 *Guide for Accommodations and Special Provisions*.

**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 *Guide for Accommodations and Special Provisions*.

**N/R** "Not reported" indicates that the number of students participating (fewer than 10 in a group) or responding to the Student Questionnaire is so small (fewer than six in a group) that identification of individual student results might be possible; therefore, results are not reported.

**N/D** "No data available" is used to indicate that there were no students in the course for the years specified.

**W** Results are being withheld by EQAO. For further information, please contact the school principal.