

School Board Report



Grade 9 Assessment of Mathematics, 2018–2019

Board: Greater Essex County DSB (66028)

On behalf of EQAO, I am pleased to share the results of the 2018–2019 Grade 9 Assessment of Mathematics. You will also find data from previous years along with demographic and attitudinal information as context for interpreting the achievement results.

EQAO's independent data are grounded in our assessment of every student in relation to *Ontario Curriculum* learning expectations and are provided at the school, board, provincial and individual student levels to inform educators' professional practice. We believe that, through evidence-informed decisions based on achievement, attitudinal, contextual and behavioural data, it is possible to foster equitable and inclusive learning models benefiting each student.

Analyzing EQAO data over the years provides a larger context that acknowledges special circumstances affecting student achievement. For example, school boards have been investigating the impact student attendance and loss of instructional time has on student achievement; when looking at the most recent data, you may wish to identify any potential relationship between lost time and student achievement.

In 2018, EQAO made changes to its accommodation policies, including eliminating the requirement for an IEP to access accommodations students normally receive during regular classroom instruction. An important reason for this change was to reduce the workload related to EQAO assessments for teachers, administrators, and parents and guardians while maintaining the integrity and comparability of our data. After considering all of our assessment administration, we noted that 13 000 fewer IEPs were indicated in our Student Data Collection in 2018 than in 2017. The agency hopes to continue implementing meaningful changes in the years to come to address the concerns of the education community.

As always, we look forward to continuing our work with you in support of student learning, and we thank you for your dedication to the meaningful education of each child and youth of this province.

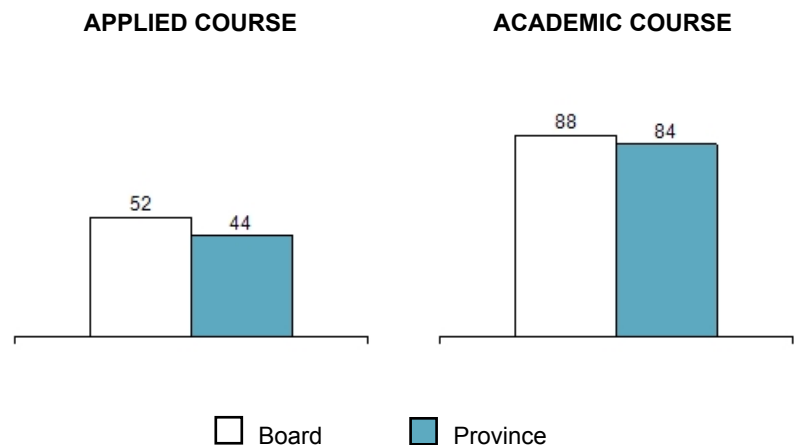
Kind regards,

Norah Marsh
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), 2018–2019



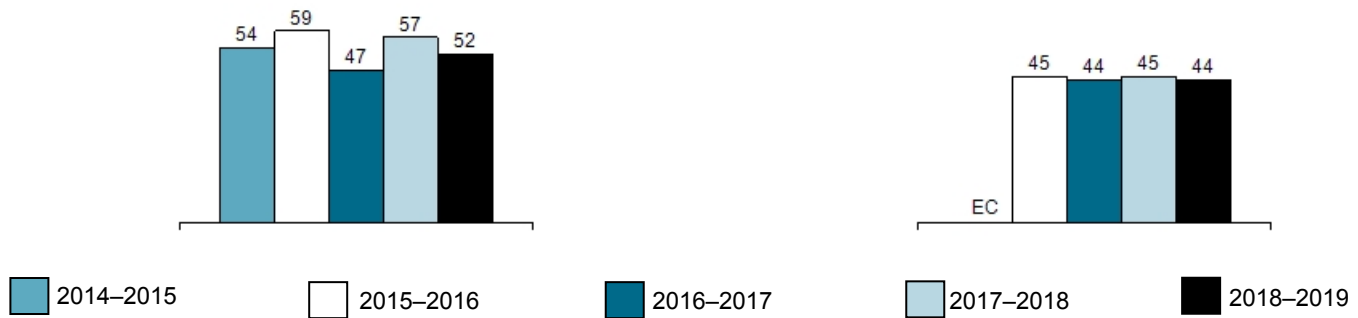
Grade 9 Assessment of Mathematics, 2018–2019

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

APPLIED MATHEMATICS

Board

Province



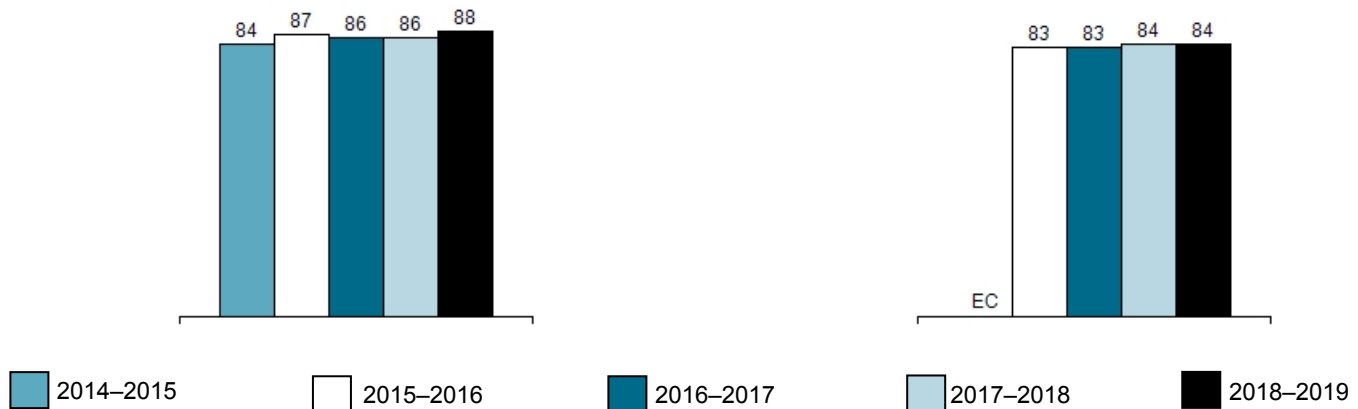
Total Number of Students

	<u>2014–2015</u>	<u>2015–2016</u>	<u>2016–2017</u>	<u>2017–2018</u>	<u>2018–2019</u>
Board	794	769	772	792	800
Province	EC	36 005	34 797	33 451	33 573

ACADEMIC MATHEMATICS

Board

Province



Total Number of Students

	<u>2014–2015</u>	<u>2015–2016</u>	<u>2016–2017</u>	<u>2017–2018</u>	<u>2018–2019</u>
Board	1 736	1 720	1 651	1 749	1 809
Province	EC	97 347	96 449	96 996	100 425

Grade 9 Assessment of Mathematics, 2018–2019

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 or boards where fewer than 10 students participated 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 by gender;
- student questionnaire results; and
- an explanation of all terms used in this report.

HOW TO USE THIS REPORT

- Examine the contextual information to understand the similarities and differences between this school, the board and the province; the board and the province. Consider the challenges that any differences might present.
- Examine the results for applied and academic mathematics.
 - Are these results consistent with what you would expect?
 - How do the school results compare to the board and province; the board results compare to the province?
 - How do these results compare over time?
 - What influence might students' attitudes have on student performance (refer to the questionnaire results)?
- Speak to the school or board staff about the goals for school improvement related to mathematics.

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

Learn more about us at www.eqao.com.

Grade 9 Assessment of Mathematics, 2018–2019

Contextual Information, Applied Course

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

Board			Province	
Enrolment				
Number of students in applied mathematics course	800		33 573	
Number of classes with students in applied mathematics course	48		2 375	
Number of schools with applied mathematics classes	14		686	
	Number	Percent	Number	Percent
Participation in the Assessment				
Students who participated in the assessment	780	98%	32 230	96%
Participating students who received one or more accommodations*	115	15%	4 802	15%
Participating students who received special provisions*§	0	0%	1 273	4%
Students who did not complete any part of the assessment (no data)*	20	2%	1 343	4%
Gender† Based on number of students enrolled				
Female	361	45%	14 383	43%
Male	439	55%	19 185	57%
Gender not specified	0	0%	5	<1%
Student Status† Based on number of students enrolled				
English language learners*	74	9%	4 122	12%
Students with special education needs (excluding gifted)*	260	32%	13 644	41%
Semester/Full Year Based on number of students enrolled				
First-semester course	326	41%	15 053	45%
Second-semester course	474	59%	16 624	50%
Full-year course	0	0%	1 896	6%
Language and School Background†† Based on Student Questionnaire data				
Number of Respondents:		671	28 618	
Speak only or mostly a language other than English at home	37	6%	2 011	7%
Speak another language as often as English at home	71	11%	3 752	13%
Attended three or more elementary schools from kindergarten to Grade 8	236	35%	11 089	39%

* See the Explanation of Terms.

† Contextual data pertaining to "gender" and "student status" are based on information provided by schools and/or boards through the Student Data Collection process.

†† Contextual data pertaining to "school background" and "language" are gathered from the Student Questionnaire completed by students.

§ Beginning in 2017–2018, the special provisions category includes extended periodic supervised breaks only.

Grade 9 Assessment of Mathematics, 2018–2019

Contextual Information, Applied Course (continued)

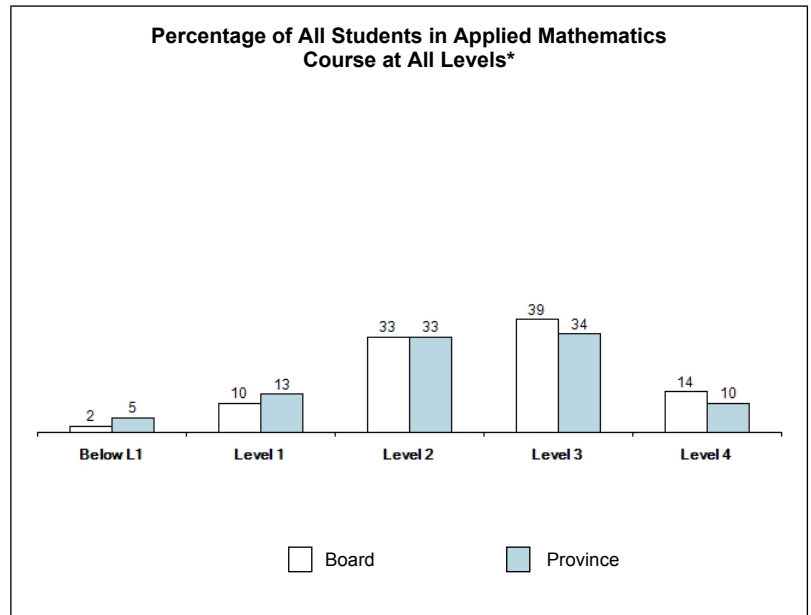
	Board		Province	
	Number	Percent	Number	Percent
Year Student Entered Current School†				
Year of the assessment	652	82%	30 074	90%
Year prior to the assessment	117	15%	2 748	8%
2 years prior to the assessment	20	2%	548	2%
3 or more years prior to the assessment	11	1%	154	<1%
Data not available	0	0%	49	<1%
Year Student Entered Current Board†				
Year of the assessment	100	12%	5 455	16%
Year prior to the assessment	51	6%	2 281	7%
2 years prior to the assessment	40	5%	1 714	5%
3 or more years prior to the assessment	609	76%	23 756	71%
Data not available	0	0%	367	1%

† Contextual data are based on information provided by schools and/or boards through the Student Data Collection process.

Grade 9 Assessment of Mathematics, 2018–2019

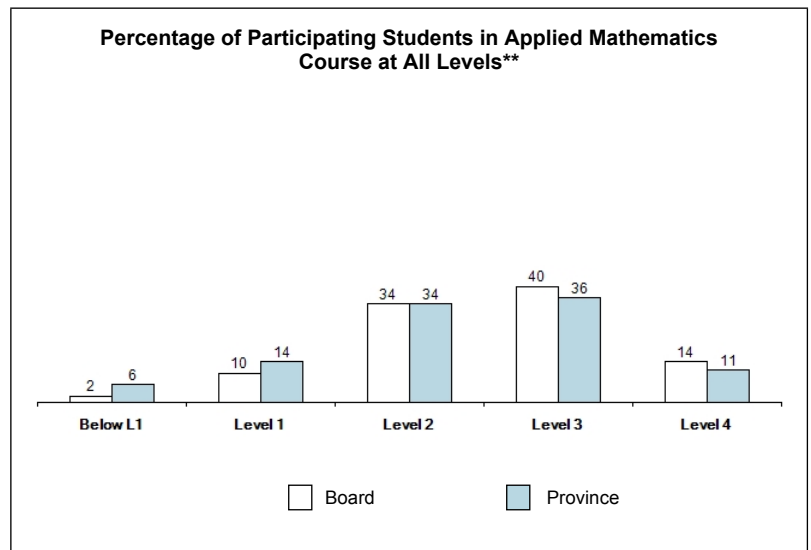
Results for All Students, Applied Course

All Students*			
Number of Students	Board 800		Province 33 573
	#	%	%
Level 4	110	14%	10%
Level 3	309	39%	34%
Level 2	265	33%	33%
Level 1	77	10%	13%
Below Level 1	19	2%	5%
Participating Students	780	98%	96%
No Data	20	2%	4%
At or Above Provincial Standard (Levels 3 and 4)†		52%	44%



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

Participating Students**			
Number of Students	Board 780		Province 32 230
	#	%	%
Level 4	110	14%	11%
Level 3	309	40%	36%
Level 2	265	34%	34%
Level 1	77	10%	14%
Below Level 1	19	2%	6%
At or Above Provincial Standard (Levels 3 and 4)†		54%	46%

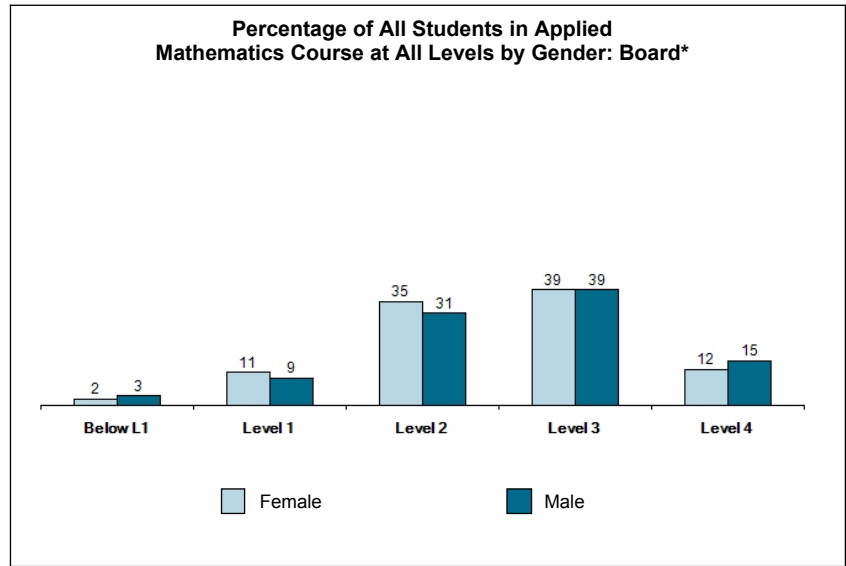


- * Because percentages in tables and graphs are rounded, and because graphs do not show all reporting categories, percentages may not add up to 100.
- ** Because percentages in tables and graphs are rounded, percentages may not add up to 100.
- † The percentages of students at Levels 3 and 4 are rounded and may not add up to the percentage of students meeting the provincial standard.

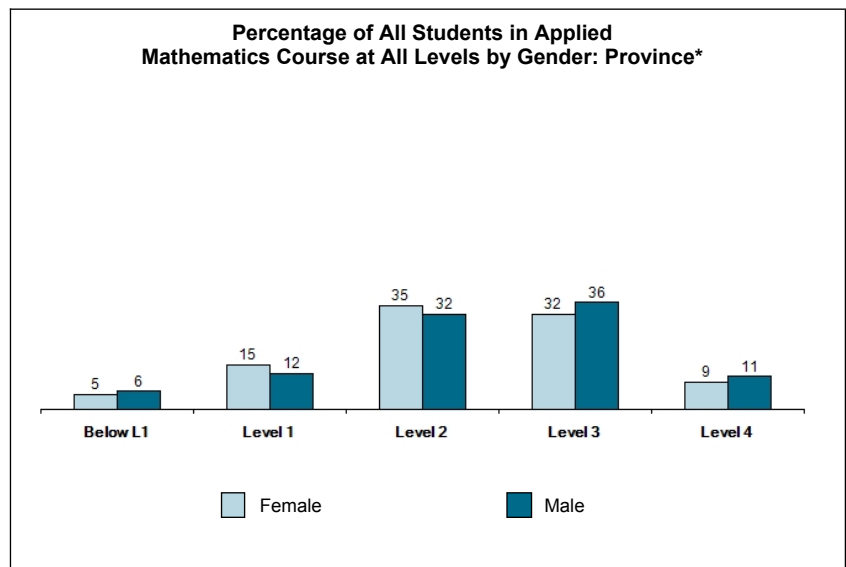
Grade 9 Assessment of Mathematics, 2018–2019

Results by Gender^{††}, Applied Course

All Students: Board by Gender*				
Number of Students	Female 361		Male 439	
	#	%	#	%
Level 4	43	12%	67	15%
Level 3	139	39%	170	39%
Level 2	128	35%	137	31%
Level 1	39	11%	38	9%
Below Level 1	8	2%	11	3%
Participating Students	357	99%	423	96%
No Data	4	1%	16	4%
At or Above Provincial Standard (Levels 3 and 4) [†]		50%	54%	



All Students: Province by Gender*				
Number of Students	Female 14 383		Male 19 185	
	#	%	#	%
Level 4	1 285	9%	2 140	11%
Level 3	4 672	32%	6 817	36%
Level 2	4 994	35%	6 055	32%
Level 1	2 099	15%	2 331	12%
Below Level 1	752	5%	1 080	6%
Participating Students	13 802	96%	18 423	96%
No Data	581	4%	762	4%
At or Above Provincial Standard (Levels 3 and 4) [†]		41%	47%	



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† The percentages of students at Levels 3 and 4 are rounded and may not add up to the percentage of students meeting the provincial standard.

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

Grade 9 Assessment of Mathematics, 2018–2019

Contextual Information, Academic Course

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

Board			Province	
Enrolment				
Number of students in academic mathematics course	1 809		100 425	
Number of classes with students in academic mathematics course	76		4 450	
Number of schools with academic mathematics classes	13		669	
	Number	Percent	Number	Percent
Participation in the Assessment				
Students who participated in the assessment	1 804	100%	99 382	99%
Participating students who received one or more accommodations*	43	2%	3 002	3%
Participating students who received special provisions*§	0	0%	2 474	2%
Students who did not complete any part of the assessment (no data)*	5	<1%	1 043	1%
Gender† Based on number of students enrolled				
Female	906	50%	51 250	51%
Male	903	50%	49 173	49%
Gender not specified	0	0%	2	<1%
Student Status† Based on number of students enrolled				
English language learners*	34	2%	7 517	7%
Students with special education needs (excluding gifted)*	99	5%	8 782	9%
Semester/Full Year Based on number of students enrolled				
First-semester course	827	46%	45 453	45%
Second-semester course	621	34%	45 193	45%
Full-year course	361	20%	9 779	10%
Language and School Background†† Based on Student Questionnaire data				
Number of Respondents:		1 591	91 396	
Speak only or mostly a language other than English at home	106	7%	8 356	9%
Speak another language as often as English at home	231	15%	16 370	18%
Attended three or more elementary schools from kindergarten to Grade 8	431	27%	32 773	36%

* See the Explanation of Terms.

† Contextual data pertaining to "gender" and "student status" are based on information provided by schools and/or boards through the Student Data Collection process.

†† Contextual data pertaining to "school background" and "language" are gathered from the Student Questionnaire completed by students.

§ Beginning in 2017–2018, the special provisions category includes extended periodic supervised breaks only.

Grade 9 Assessment of Mathematics, 2018–2019

Contextual Information, Academic Course (continued)

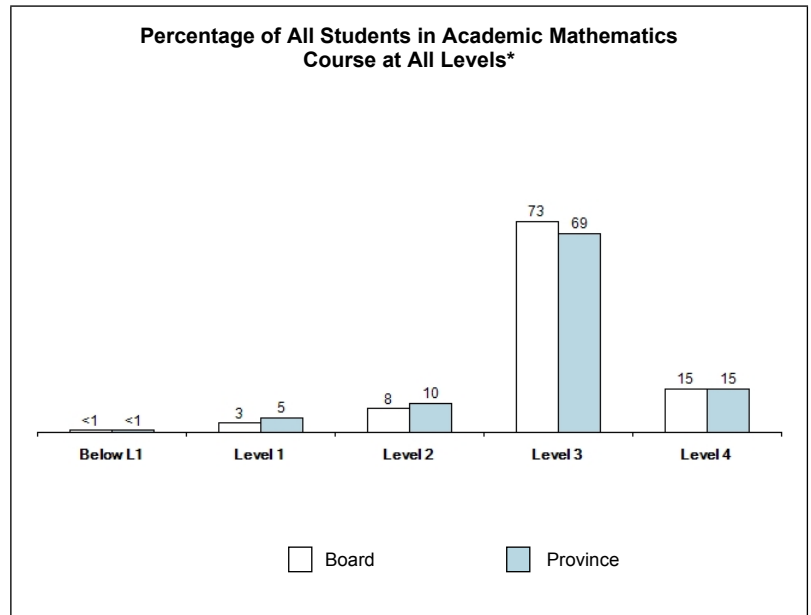
	Board		Province	
	Number	Percent	Number	Percent
Year Student Entered Current School†				
Year of the assessment	1 740	96%	98 153	98%
Year prior to the assessment	56	3%	1 457	1%
2 years prior to the assessment	10	1%	484	<1%
3 or more years prior to the assessment	3	<1%	62	<1%
Data not available	0	0%	269	<1%
Year Student Entered Current Board†				
Year of the assessment	306	17%	16 101	16%
Year prior to the assessment	68	4%	4 004	4%
2 years prior to the assessment	53	3%	4 049	4%
3 or more years prior to the assessment	1 382	76%	75 016	75%
Data not available	0	0%	1 255	1%

† Contextual data are based on information provided by schools and/or boards through the Student Data Collection process.

Grade 9 Assessment of Mathematics, 2018–2019

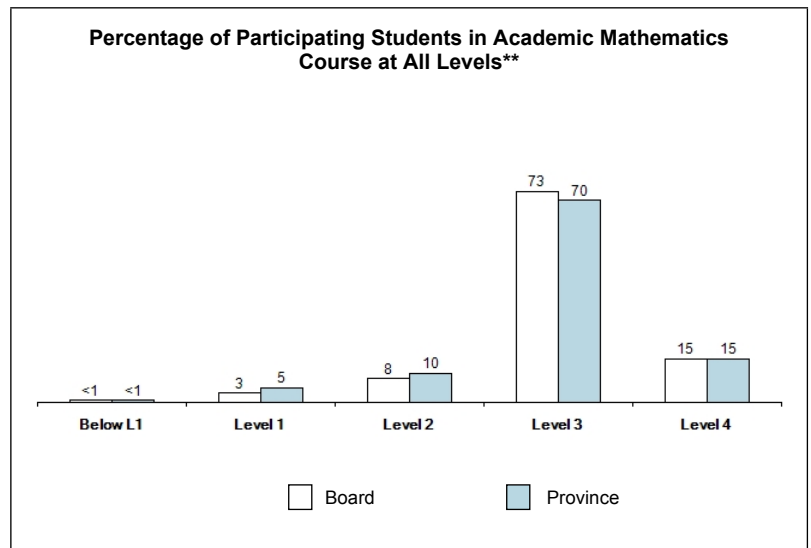
Results for All Students, Academic Course

All Students*			
Number of Students	Board 1 809		Province 100 425
	#	%	%
Level 4	279	15%	15%
Level 3	1 317	73%	69%
Level 2	152	8%	10%
Level 1	49	3%	5%
Below Level 1	7	<1%	<1%
Participating Students	1 804	100%	99%
No Data	5	<1%	1%
At or Above Provincial Standard (Levels 3 and 4)†		88%	84%



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

Participating Students**			
Number of Students	Board 1 804		Province 99 382
	#	%	%
Level 4	279	15%	15%
Level 3	1 317	73%	70%
Level 2	152	8%	10%
Level 1	49	3%	5%
Below Level 1	7	<1%	<1%
At or Above Provincial Standard (Levels 3 and 4)†		88%	85%



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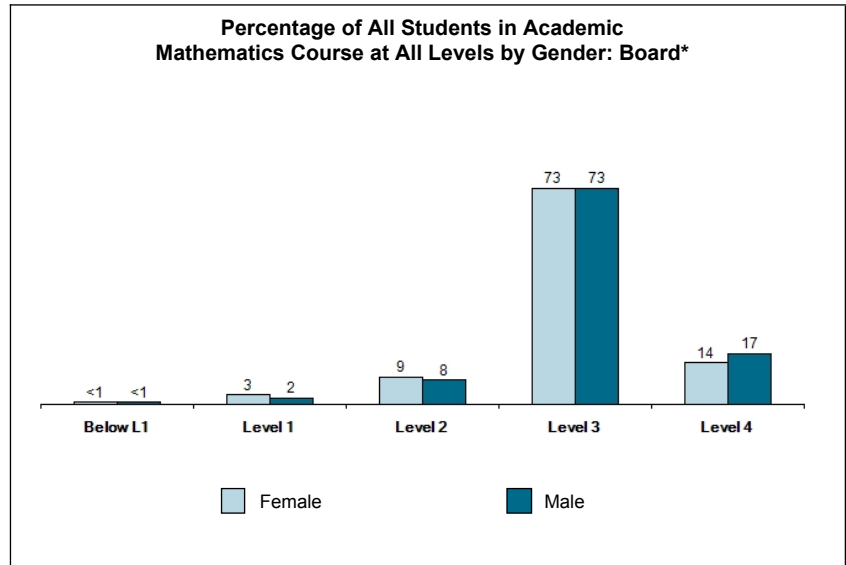
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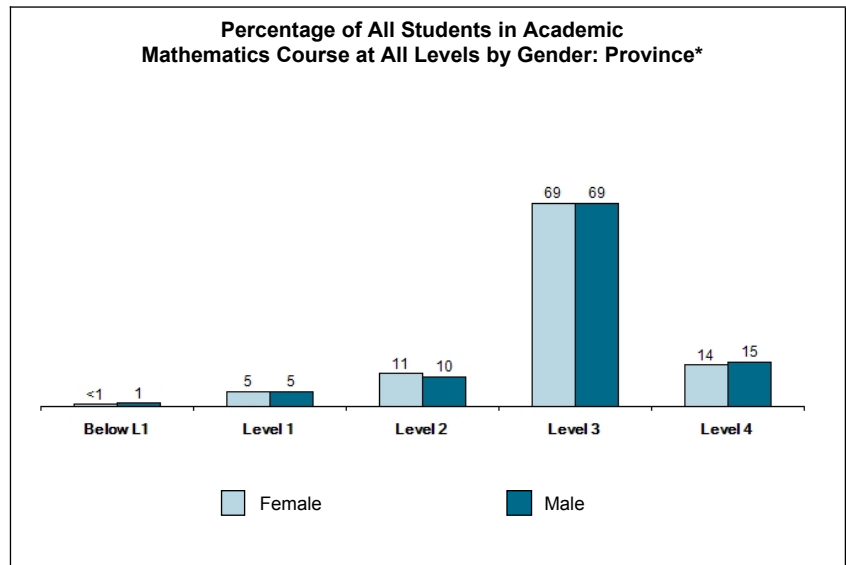
Grade 9 Assessment of Mathematics, 2018–2019

Results by Gender^{††}, Academic Course

All Students: Board by Gender*				
Number of Students	Female 906		Male 903	
	#	%	#	%
Level 4	127	14%	152	17%
Level 3	659	73%	658	73%
Level 2	84	9%	68	8%
Level 1	28	3%	21	2%
Below Level 1	4	<1%	3	<1%
Participating Students	902	100%	902	100%
No Data	4	<1%	1	<1%
At or Above Provincial Standard (Levels 3 and 4) [†]		87%	90%	



All Students: Province by Gender*				
Number of Students	Female 51 250		Male 49 173	
	#	%	#	%
Level 4	7 315	14%	7 309	15%
Level 3	35 328	69%	34 032	69%
Level 2	5 426	11%	4 761	10%
Level 1	2 483	5%	2 295	5%
Below Level 1	166	<1%	265	1%
Participating Students	50 718	99%	48 662	99%
No Data	532	1%	511	1%
At or Above Provincial Standard (Levels 3 and 4) [†]		83%	84%	



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† The percentages of students at Levels 3 and 4 are rounded and may not add up to the percentage of students meeting the provincial standard.

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

Grade 9 Assessment of Mathematics, 2018–2019

Contextual Information over Time: Applied Course

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

	2014–2015	2015–2016	2016–2017	2017–2018	2018–2019
Enrolment					
Number of students in applied mathematics course	794	769	772	792	800
Number of classes with students in applied mathematics course	47	47	46	49	48
Number of schools with applied mathematics classes	15	16	14	14	14
Participation in the Assessment					
Students who participated in the assessment	96%	97%	98%	97%	98%
Participating students who received one or more accommodations*	19%	23%	28%	11%	15%
Participating students who received special provisions*§	2%	5%	8%	1%	0%
Students who did not complete any part of the assessment (no data)*	4%	3%	2%	3%	2%
Gender[†] Based on number of students enrolled					
Female	45%	46%	42%	45%	45%
Male	55%	54%	58%	55%	55%
Gender not specified	0%	0%	0%	0%	0%
Student Status[†] Based on number of students enrolled					
English language learners*	2%	4%	8%	7%	9%
Students with special education needs (excluding gifted)*	24%	25%	30%	27%	32%
Semester/Full Year Based on number of students enrolled					
First-semester course	50%	57%	50%	46%	41%
Second-semester course	42%	40%	46%	51%	59%
Full-year course	8%	3%	4%	3%	0%
Language and School Background^{††} Based on Student Questionnaire data					
Number of Respondents:	707	665	700	683	671
Speak only or mostly a language other than English at home	4%	4%	5%	5%	6%
Speak another language as often as English at home	8%	9%	11%	11%	11%
Attended three or more elementary schools from kindergarten to Grade 8	31%	31%	36%	34%	35%

* See the Explanation of Terms.

† Contextual data pertaining to "gender" and "student status" are based on information provided by schools and/or boards through the Student Data Collection process.

†† Contextual data pertaining to "school background" and "language" are gathered from the Student Questionnaire completed by students.

§ Beginning in 2017–2018, the special provisions category includes extended periodic supervised breaks only.

Grade 9 Assessment of Mathematics, 2018–2019

Contextual Information over Time: Applied Course (continued)

	2014–2015	2015–2016	2016–2017	2017–2018	2018–2019
Year Student Entered Current School†					
Year of the assessment	These items were added in 2015–2016.	85%	83%	84%	82%
Year prior to the assessment		12%	13%	14%	15%
2 years prior to the assessment		2%	3%	2%	2%
3 or more years prior to the assessment		1%	1%	<1%	1%
Data not available		<1%	0%	0%	0%
Year Student Entered Current Board†					
Year of the assessment	These items were added in 2015–2016.	22%	14%	19%	12%
Year prior to the assessment		5%	7%	7%	6%
2 years prior to the assessment		2%	3%	6%	5%
3 or more years prior to the assessment		71%	75%	68%	76%
Data not available		<1%	<1%	<1%	0%

[†] Contextual data are based on information provided by schools and/or boards through the Student Data Collection process.

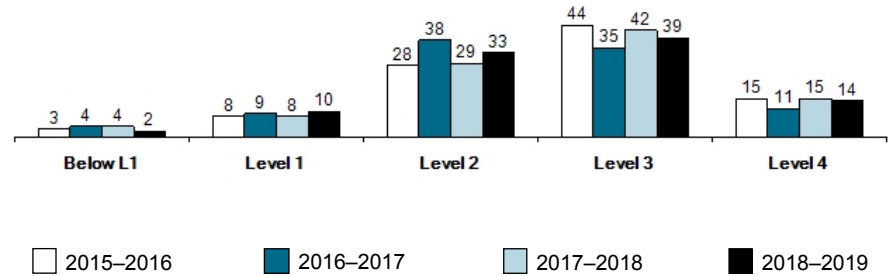
Grade 9 Assessment of Mathematics, 2018–2019

Results for All Students over Time: Applied Course

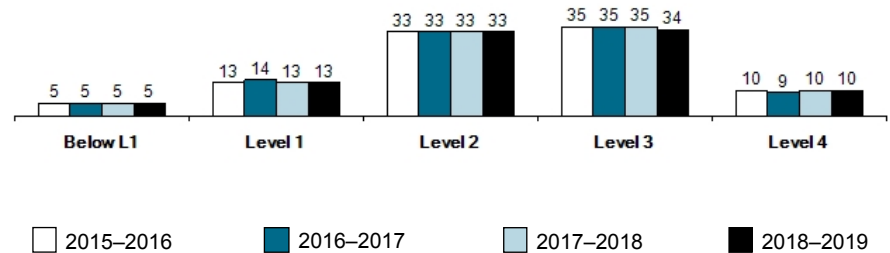
Board*				
Year	'15–'16	'16–'17	'17–'18	'18–'19
<i>Number of Students</i>	769	772	792	800
Level 4	15%	11%	15%	14%
Level 3	44%	35%	42%	39%
Level 2	28%	38%	29%	33%
Level 1	8%	9%	8%	10%
Below Level 1	3%	4%	4%	2%
<i>Participating Students</i>	97%	98%	97%	98%
No Data	3%	2%	3%	2%
At or Above Provincial Standard (Levels 3 and 4)†	59%	47%	57%	52%

Province*				
Year	'15–'16	'16–'17	'17–'18	'18–'19
<i>Number of Students</i>	36 005	34 797	33 451	33 573
Level 4	10%	9%	10%	10%
Level 3	35%	35%	35%	34%
Level 2	33%	33%	33%	33%
Level 1	13%	14%	13%	13%
Below Level 1	5%	5%	5%	5%
<i>Participating Students</i>	96%	96%	96%	96%
No Data	4%	4%	4%	4%
At or Above Provincial Standard (Levels 3 and 4)†	45%	44%	45%	44%

Percentage of All Students in
Applied Mathematics Course at All Levels: Board*



Percentage of All Students in
Applied Mathematics Course at All Levels: Province*



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

† The percentages of students at Levels 3 and 4 are rounded and may not add up to the percentage of students meeting the provincial standard.

Grade 9 Assessment of Mathematics, 2018–2019

Contextual Information over Time: Academic Course

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

	2014–2015	2015–2016	2016–2017	2017–2018	2018–2019
Enrolment					
Number of students in academic mathematics course	1 736	1 720	1 651	1 749	1 809
Number of classes with students in academic mathematics course	75	73	71	74	76
Number of schools with academic mathematics classes	14	14	13	13	13
Participation in the Assessment					
Students who participated in the assessment	99%	100%	100%	100%	100%
Participating students who received one or more accommodations*	3%	4%	5%	2%	2%
Participating students who received special provisions*§	2%	1%	1%	<1%	0%
Students who did not complete any part of the assessment (no data)*	1%	<1%	<1%	<1%	<1%
Gender† Based on number of students enrolled					
Female	50%	52%	52%	51%	50%
Male	50%	48%	48%	49%	50%
Gender not specified	0%	0%	0%	0%	0%
Student Status† Based on number of students enrolled					
English language learners*	2%	1%	1%	1%	2%
Students with special education needs (excluding gifted)*	3%	4%	6%	6%	5%
Semester/Full Year Based on number of students enrolled					
First-semester course	37%	42%	50%	45%	46%
Second-semester course	40%	46%	33%	35%	34%
Full-year course	23%	12%	16%	20%	20%
Language and School Background†† Based on Student Questionnaire data					
Number of Respondents:	1 629	1 594	1 535	1 540	1 591
Speak only or mostly a language other than English at home	8%	7%	8%	7%	7%
Speak another language as often as English at home	19%	16%	16%	15%	15%
Attended three or more elementary schools from kindergarten to Grade 8	27%	26%	25%	24%	27%

* See the Explanation of Terms.

† Contextual data pertaining to “gender” and “student status” are based on information provided by schools and/or boards through the Student Data Collection process.

†† Contextual data pertaining to “school background” and “language” are gathered from the Student Questionnaire completed by students.

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Grade 9 Assessment of Mathematics, 2018–2019

Contextual Information over Time: Academic Course (continued)

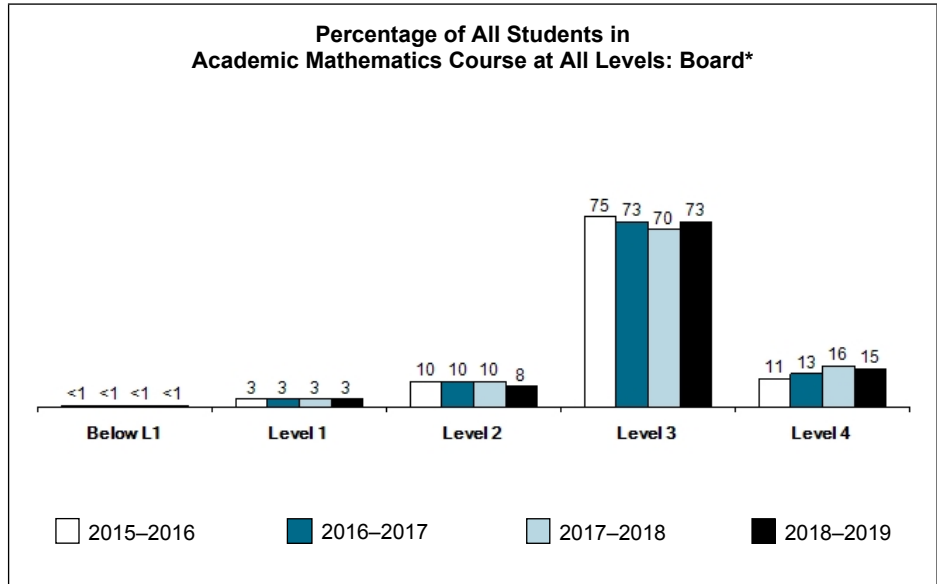
	2014–2015	2015–2016	2016–2017	2017–2018	2018–2019
Year Student Entered Current School†					
Year of the assessment	These items were added in 2015–2016.	98%	97%	97%	96%
Year prior to the assessment		2%	3%	3%	3%
2 years prior to the assessment		0%	<1%	<1%	1%
3 or more years prior to the assessment		0%	<1%	<1%	<1%
Data not available		0%	0%	0%	0%
Year Student Entered Current Board†					
Year of the assessment	These items were added in 2015–2016.	19%	16%	17%	17%
Year prior to the assessment		2%	2%	3%	4%
2 years prior to the assessment		2%	2%	2%	3%
3 or more years prior to the assessment		77%	80%	78%	76%
Data not available		0%	0%	0%	0%

[†] Contextual data are based on information provided by schools and/or boards through the Student Data Collection process.

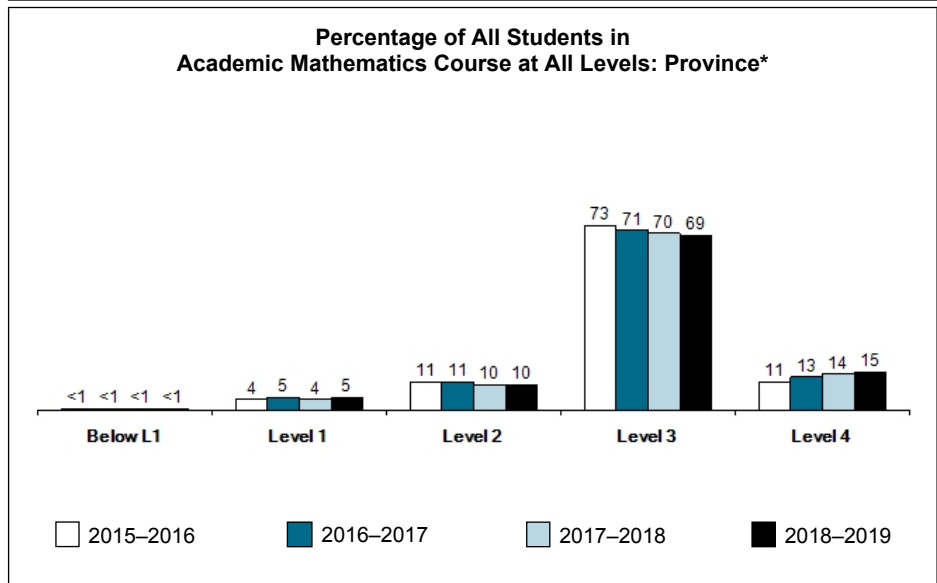
Grade 9 Assessment of Mathematics, 2018–2019

Results for All Students over Time: Academic Course

Board*				
Year	'15–'16	'16–'17	'17–'18	'18–'19
<i>Number of Students</i>	1 720	1 651	1 749	1 809
Level 4	11%	13%	16%	15%
Level 3	75%	73%	70%	73%
Level 2	10%	10%	10%	8%
Level 1	3%	3%	3%	3%
Below Level 1	<1%	<1%	<1%	<1%
<i>Participating Students</i>	100%	100%	100%	100%
No Data	<1%	<1%	<1%	<1%
At or Above Provincial Standard (Levels 3 and 4)†	87%	86%	86%	88%

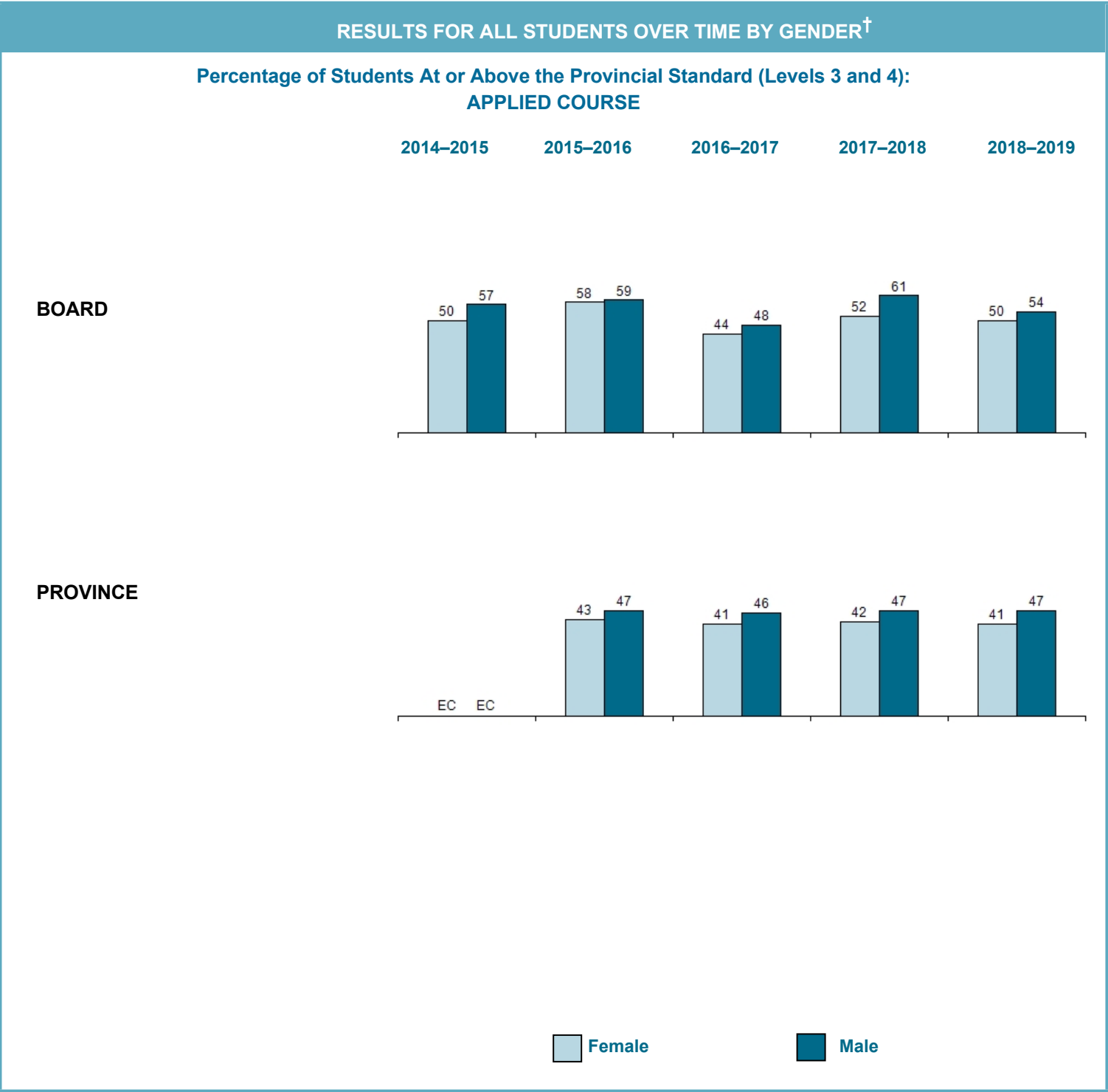


Province*				
Year	'15–'16	'16–'17	'17–'18	'18–'19
<i>Number of Students</i>	97 347	96 449	96 996	100 425
Level 4	11%	13%	14%	15%
Level 3	73%	71%	70%	69%
Level 2	11%	11%	10%	10%
Level 1	4%	5%	4%	5%
Below Level 1	<1%	<1%	<1%	<1%
<i>Participating Students</i>	99%	99%	99%	99%
No Data	1%	1%	1%	1%
At or Above Provincial Standard (Levels 3 and 4)†	83%	83%	84%	84%



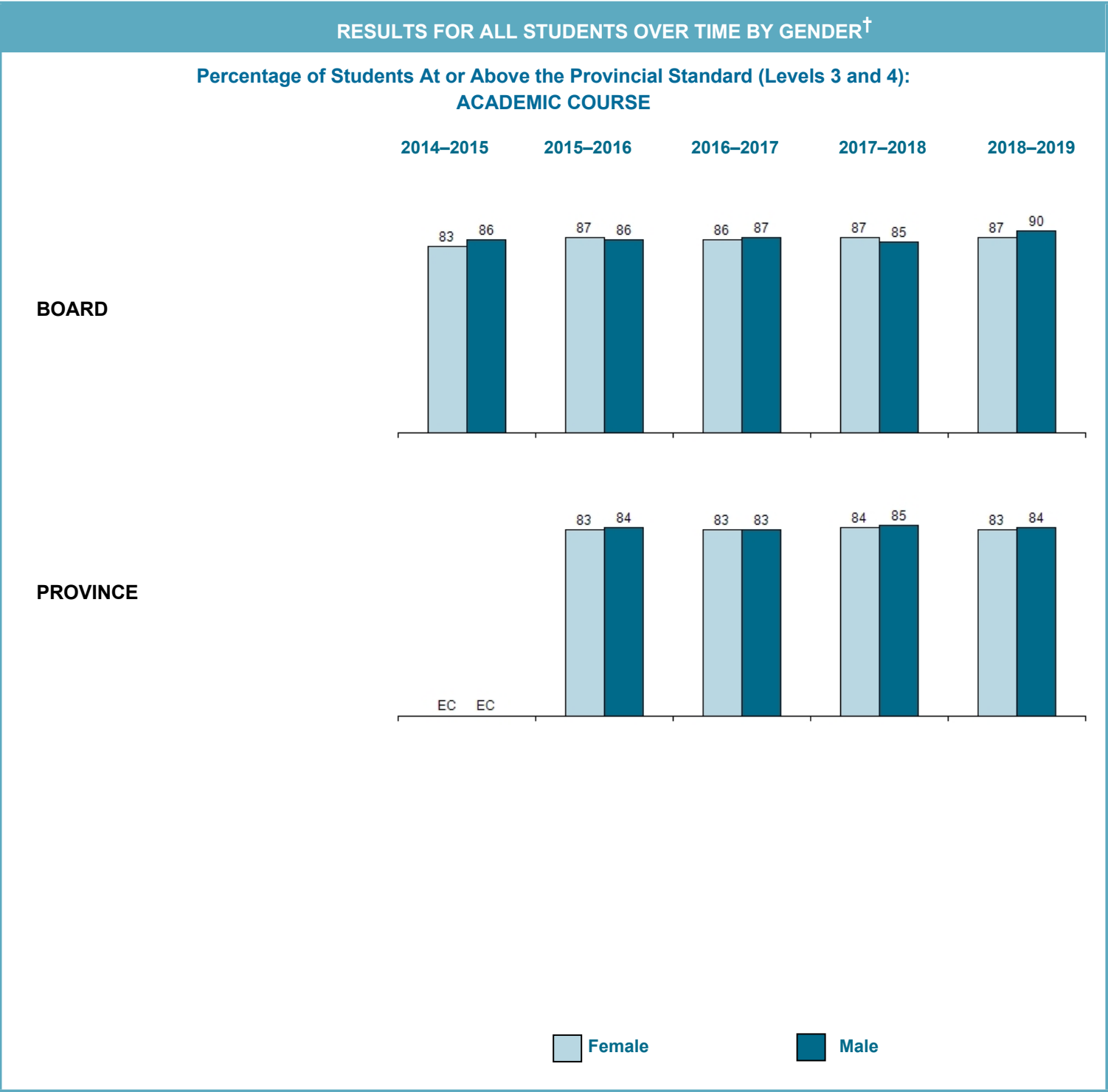
* Because percentages in tables and graphs are rounded, and because graphs do not show all reporting categories, percentages may not add up to 100.

† The percentages of students at Levels 3 and 4 are rounded and may not add up to the percentage of students meeting the provincial standard.



Total Number of Students in Applied Mathematics Course†										
	2014–2015		2015–2016		2016–2017		2017–2018		2018–2019	
	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Board	359	435	352	417	326	446	359	433	361	439
Province	EC	EC	15 748	20 257	15 212	19 585	14 646	18 804	14 383	19 185

† Includes only students for whom gender data were available.

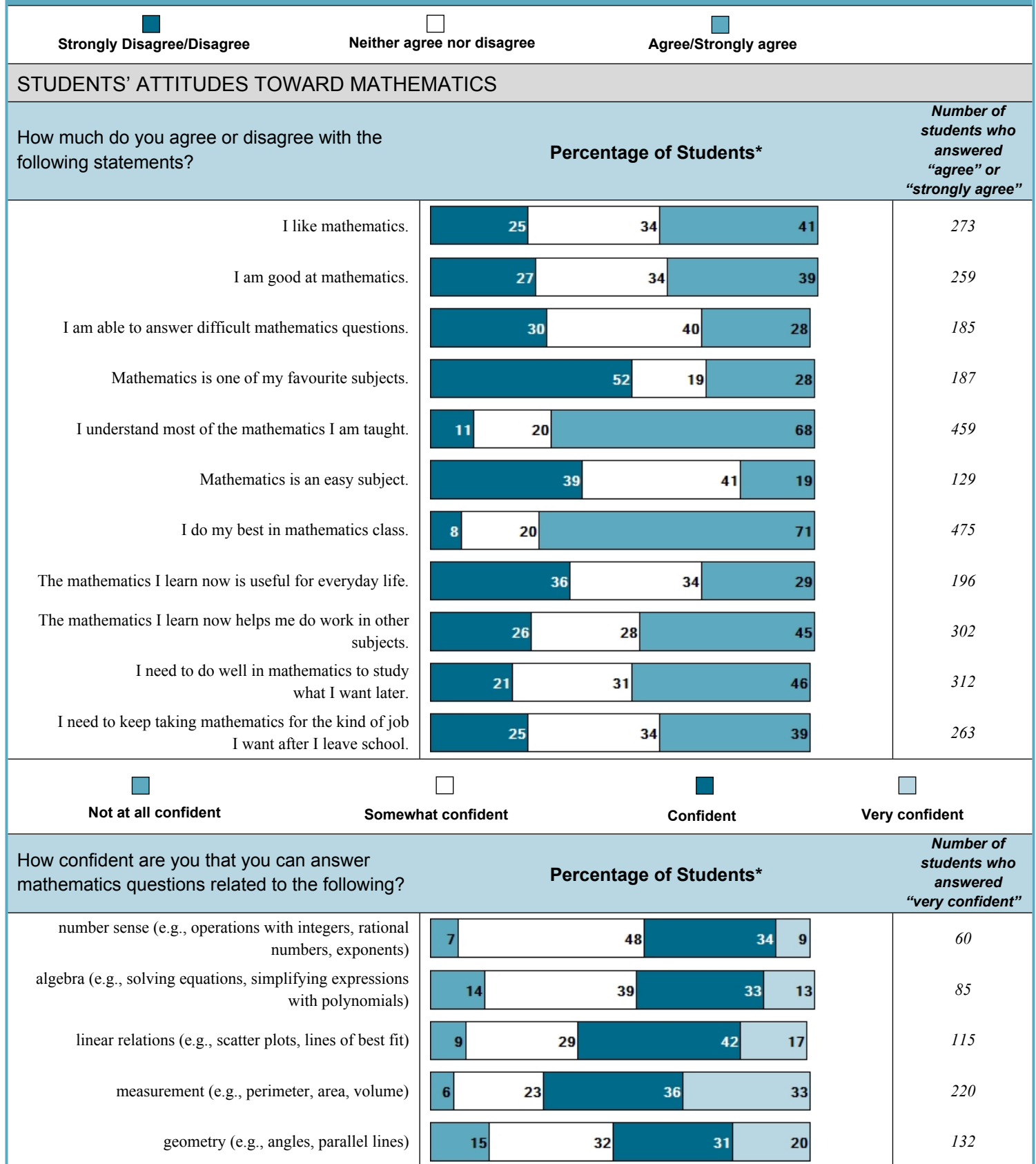


Total Number of Students in Academic Mathematics Course†										
	2014–2015		2015–2016		2016–2017		2017–2018		2018–2019	
	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Board	870	866	891	829	857	794	886	863	906	903
Province	EC	EC	49 817	47 530	49 388	47 061	49 957	47 039	51 250	49 173

† Includes only students for whom gender data were available.

Grade 9 Assessment of Mathematics, 2018–2019, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# = 671)



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

Grade 9 Assessment of Mathematics, 2018–2019, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# = 671)



Never or almost never



Sometimes



Often



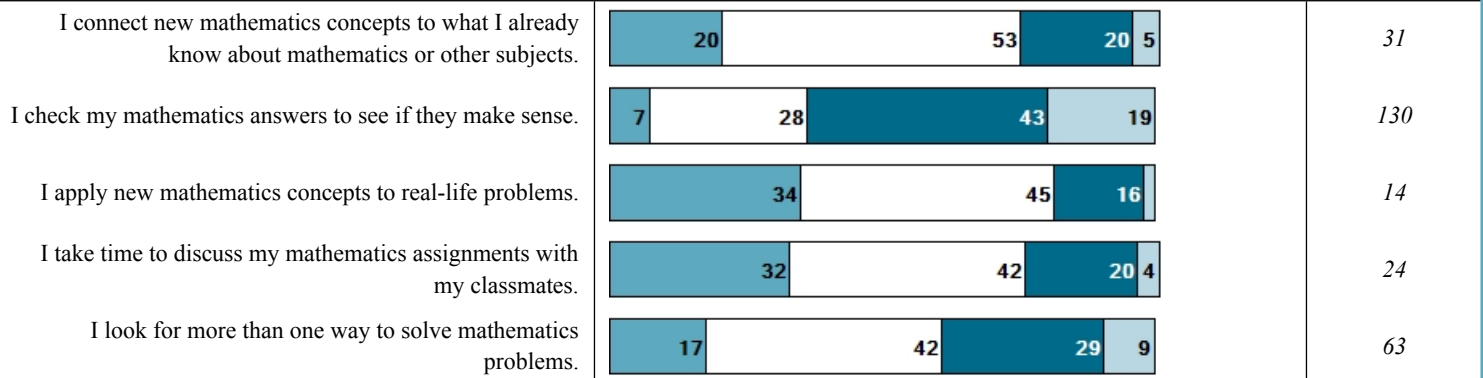
Very Often

DOING MATHEMATICS

How often do you do the following when studying mathematics or working on a mathematics problem?

Percentage of Students*

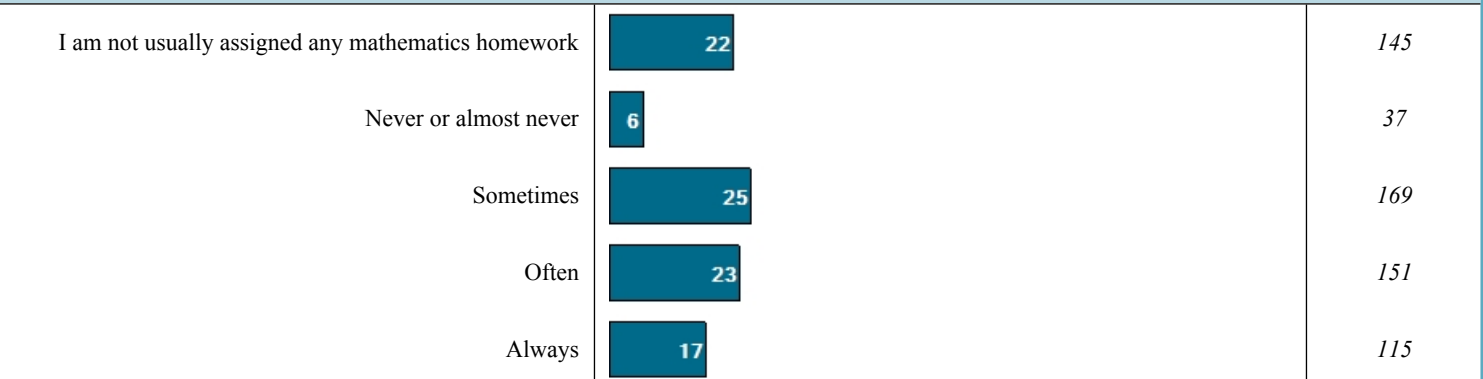
Number of students who answered "very often"



How often do you complete your mathematics homework?

Percentage of Students*

Number of students




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

Grade 9 Assessment of Mathematics, 2018–2019, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# = 671)


Never


1 or 2 times a month


1 to 3 times a week

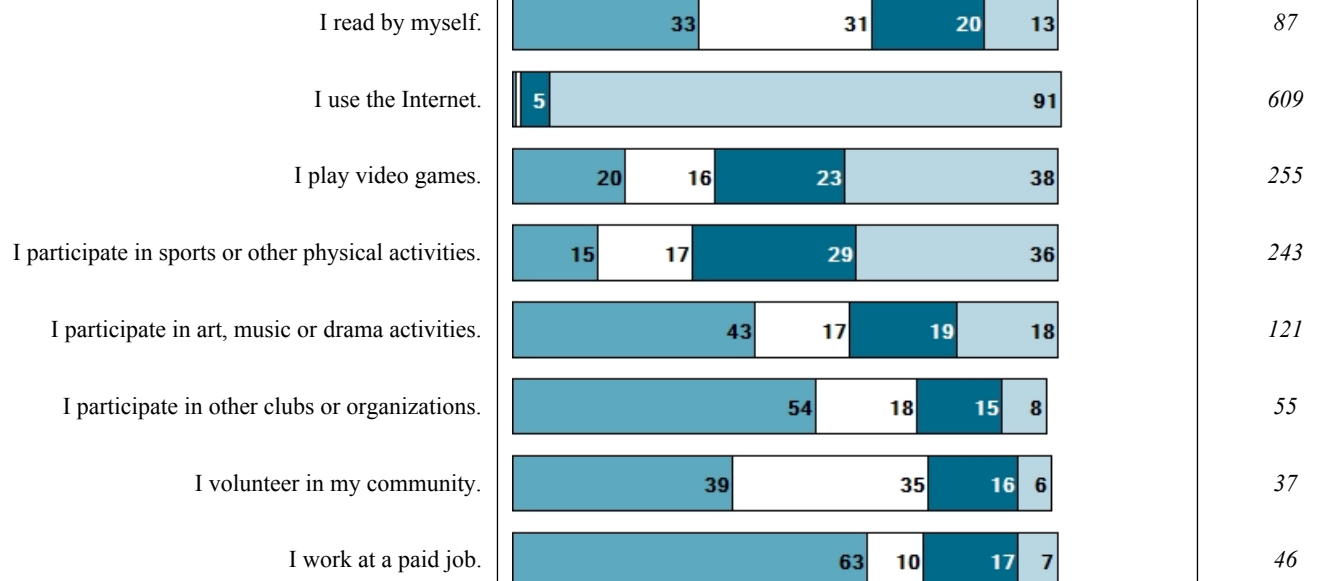

Every day or almost every day

OUT-OF-SCHOOL ACTIVITIES

How often do you do the following when you are not at school?

Percentage of Students*

Number of students who answered "every day or almost every day"



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

Grade 9 Assessment of Mathematics, 2018–2019, Applied Course

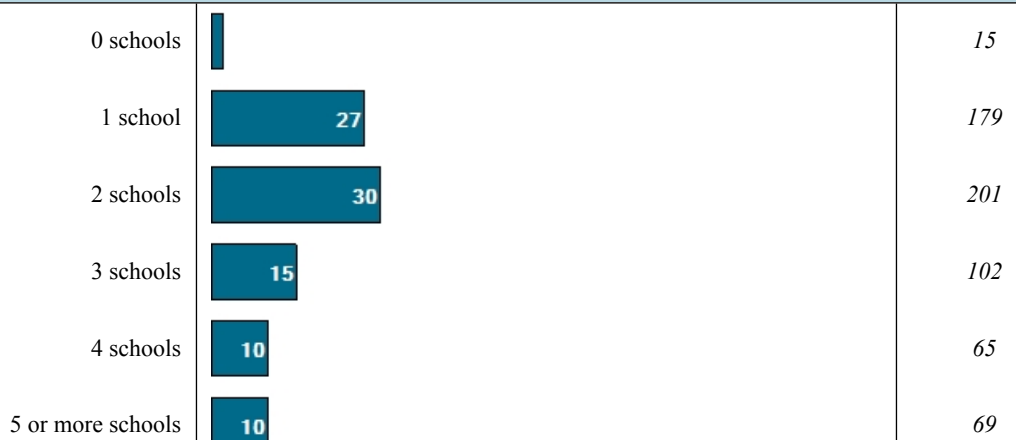
STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# = 671)

SCHOOLS ATTENDED

How many schools did you attend from kindergarten to Grade 8 (home-schooling is counted as one school)?

Percentage of Students*

Number of students



Only English/Mostly English

Another language (or other languages) as often as English

Mostly another language (or other languages)/Only another language (or other languages)

LANGUAGES SPOKEN

Percentage of Students*

Number of students who answered "only English" or "mostly English"



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

Grade 9 Assessment of Mathematics, 2018–2019, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# = 671)

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

45

299

No

1

5

Don't know

48

324

Total number of students

299

Were you told how much the Grade 9 Assessment of Mathematics will count as part of your class mark (e.g., 5%)?†

Percentage of Students*

Number of students

Yes

90

270

No

9

28

Total number of students

299

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

232

No

11

32

Undecided

12

35

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

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

Grade 9 Assessment of Mathematics, 2018–2019, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 671)	Female* (# = 313)	Male* (# = 358)	All Students (# = 28 618)	Female* (# = 12 493)	Male* (# = 16 121)
STUDENTS' ATTITUDES TOWARD MATHEMATICS						
Percentage of students indicating they "agree" or "strongly agree" with the following statements:†						
I like mathematics.	41%	36%	45%	35%	29%	40%
I am good at mathematics.	39%	31%	45%	32%	25%	38%
I am able to answer difficult mathematics questions.	28%	15%	38%	25%	16%	32%
Mathematics is one of my favourite subjects.	28%	25%	30%	22%	18%	24%
I understand most of the mathematics I am taught.	68%	65%	72%	59%	55%	63%
Mathematics is an easy subject.	19%	16%	22%	17%	12%	21%
I do my best in mathematics class.	71%	72%	70%	69%	74%	66%
The mathematics I learn now is useful for everyday life.	29%	28%	30%	30%	28%	32%
The mathematics I learn now helps me do work in other subjects.	45%	45%	45%	45%	44%	46%
I need to do well in mathematics to study what I want later.	46%	45%	47%	49%	46%	51%
I need to keep taking mathematics for the kind of job I want after I leave school.	39%	38%	40%	40%	38%	42%
Percentage of students indicating they feel "confident" or "very confident" that they can answer mathematics questions related to the following:‡						
number sense (e.g., operations with integers, rational numbers, exponents)	43%	34%	51%	41%	33%	47%
algebra (e.g., solving equations, simplifying expressions with polynomials)	46%	44%	47%	43%	40%	45%
linear relations (e.g., scatter plots, lines of best fit)	59%	48%	69%	56%	50%	60%
measurement (e.g., perimeter, area, volume)	69%	61%	76%	64%	60%	68%
geometry (e.g., angles, parallel lines)	51%	42%	58%	47%	40%	53%

* Includes only students for whom gender data were available.

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

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

Grade 9 Assessment of Mathematics, 2018–2019, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 671)	Female* (# = 313)	Male* (# = 358)	All Students (# = 28 618)	Female* (# = 12 493)	Male* (# = 16 121)
DOING MATHEMATICS						
Percentage of students indicating they do the following “very often” when studying mathematics or working on a mathematics problem:†						
I connect new mathematics concepts to what I already know about mathematics or other subjects.	5%	3%	6%	4%	4%	4%
I check my mathematics answers to see if they make sense.	19%	20%	19%	17%	19%	16%
I apply new mathematics concepts to real-life problems.	2%	2%	2%	3%	3%	4%
I take time to discuss my mathematics assignments with my classmates.	4%	3%	4%	5%	6%	4%
I look for more than one way to solve mathematics problems.	9%	7%	11%	10%	10%	11%
Percentage of students indicating they complete their mathematics homework at the following frequencies:‡						
I am not usually assigned any mathematics homework	22%	24%	19%	13%	13%	14%
Never or almost never	6%	6%	5%	8%	6%	10%
Sometimes	25%	23%	27%	27%	25%	29%
Often	23%	22%	23%	28%	29%	27%
Always	17%	18%	16%	16%	19%	14%

* Includes only students for whom gender data were available.

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

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

Grade 9 Assessment of Mathematics, 2018–2019, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 671)	Female* (# = 313)	Male* (# = 358)	All Students (# = 28 618)	Female* (# = 12 493)	Male* (# = 16 121)
OUT-OF-SCHOOL ACTIVITIES						
Percentage of students indicating they do the following “every day or almost every day” when they are not at school:†						
I read by myself.	13%	18%	9%	14%	20%	10%
I use the Internet.	91%	93%	89%	87%	89%	86%
I play video games.	38%	17%	56%	36%	14%	53%
I participate in sports or other physical activities.	36%	27%	45%	34%	25%	42%
I participate in art, music or drama activities.	18%	24%	13%	18%	25%	13%
I participate in other clubs or organizations.	8%	6%	10%	8%	7%	9%
I volunteer in my community.	6%	5%	6%	5%	5%	5%
I work at a paid job.	7%	5%	8%	7%	6%	8%
SCHOOLS ATTENDED						
Percentage of students indicating the number of schools they attended from kindergarten to Grade 8 (home-schooling is counted as one school):‡						
0 schools	2%	2%	3%	2%	2%	2%
1 school	27%	28%	26%	26%	24%	27%
2 schools	30%	27%	32%	29%	29%	29%
3 schools	15%	16%	15%	18%	18%	18%
4 schools	10%	10%	10%	10%	11%	10%
5 or more schools	10%	14%	7%	11%	12%	9%
LANGUAGES SPOKEN						
Percentage of students indicating that they speak the following languages at home:‡						
Only English/Mostly English	78%	81%	74%	75%	75%	75%
Another language (or other languages) as often as English	11%	10%	11%	13%	14%	12%
Mostly another language (or other languages)/ Only another language (or other languages)	6%	5%	6%	7%	7%	7%
Percentage of students indicating the languages people speak to them at home:‡						
Only English/Mostly English	74%	78%	70%	70%	70%	71%
Another language (or other languages) as often as English	9%	10%	8%	11%	12%	10%
Mostly another language (or other languages)/ Only another language (or other languages)	8%	5%	10%	11%	11%	11%

* Includes only students for whom gender data were available.

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

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

Grade 9 Assessment of Mathematics, 2018–2019, Applied Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 671)	Female* (# = 313)	Male* (# = 358)	All Students (# = 28 618)	Female* (# = 12 493)	Male* (# = 16 121)
USE OF THE ASSESSMENT IN CLASS MARKS						
Percentage of students indicating their teacher will count some or all parts of the Grade 9 Assessment of Mathematics as part of their class mark:†						
Yes	45%	49%	41%	43%	47%	40%
No	1%	<1%	1%	1%	1%	1%
Don't know	48%	47%	49%	51%	48%	53%
Percentage of students indicating they were told how much the Grade 9 Assessment of Mathematics will count as part of their class mark:‡						
	All Students (# = 299)	Female* (# = 152)	Male* (# = 147)	All Students (# = 12 310)	Female* (# = 5 814)	Male* (# = 6 496)
Yes	90%	92%	88%	89%	90%	88%
No	9%	8%	11%	10%	9%	11%
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 (# = 299)	Female* (# = 152)	Male* (# = 147)	All Students (# = 12 310)	Female* (# = 5 814)	Male* (# = 6 496)
Yes	78%	79%	76%	76%	78%	75%
No	11%	9%	13%	9%	7%	11%
Undecided	12%	12%	11%	14%	15%	14%

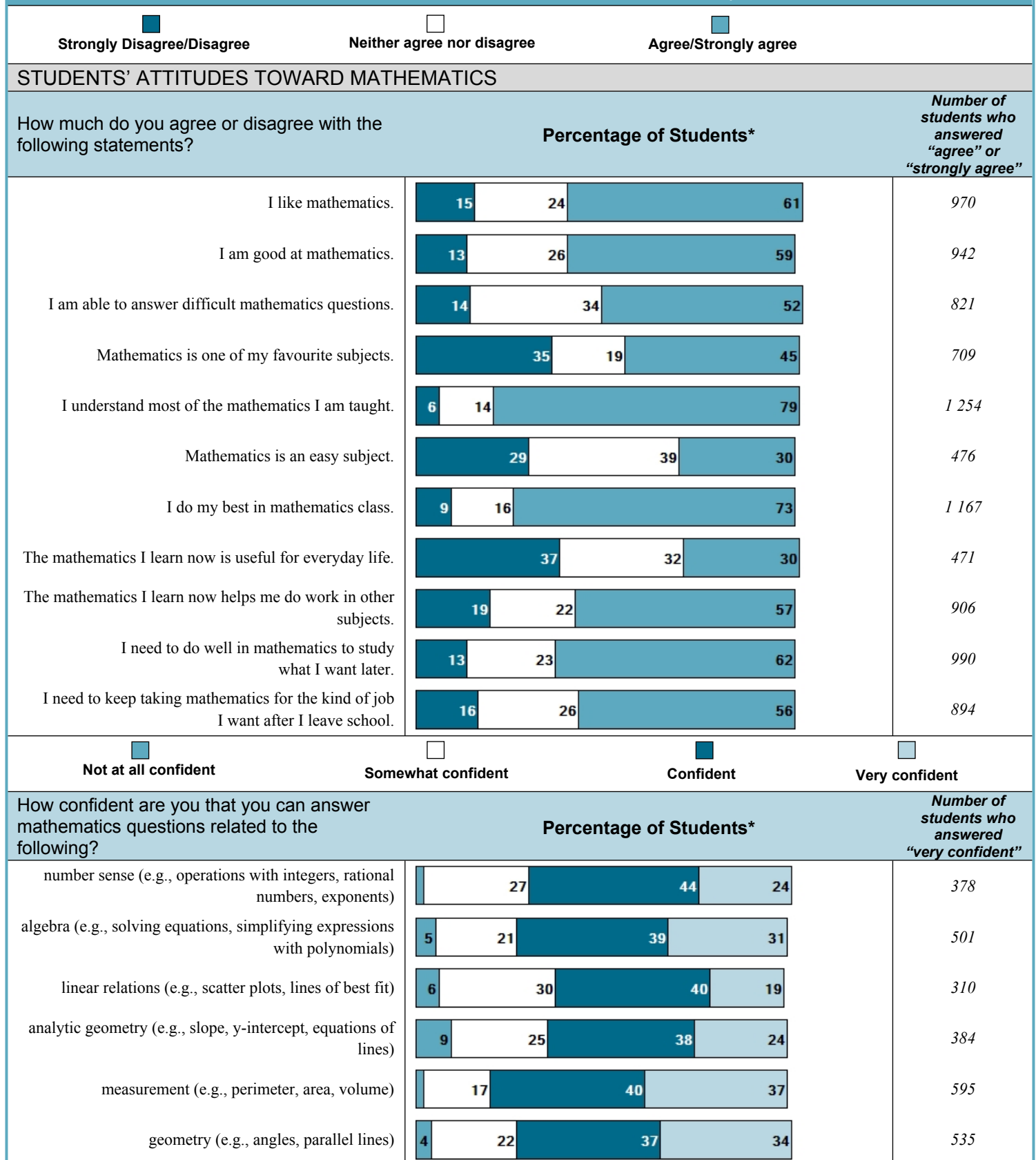
* Includes only students for whom gender data were available.

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

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

Grade 9 Assessment of Mathematics, 2018–2019, Academic Course

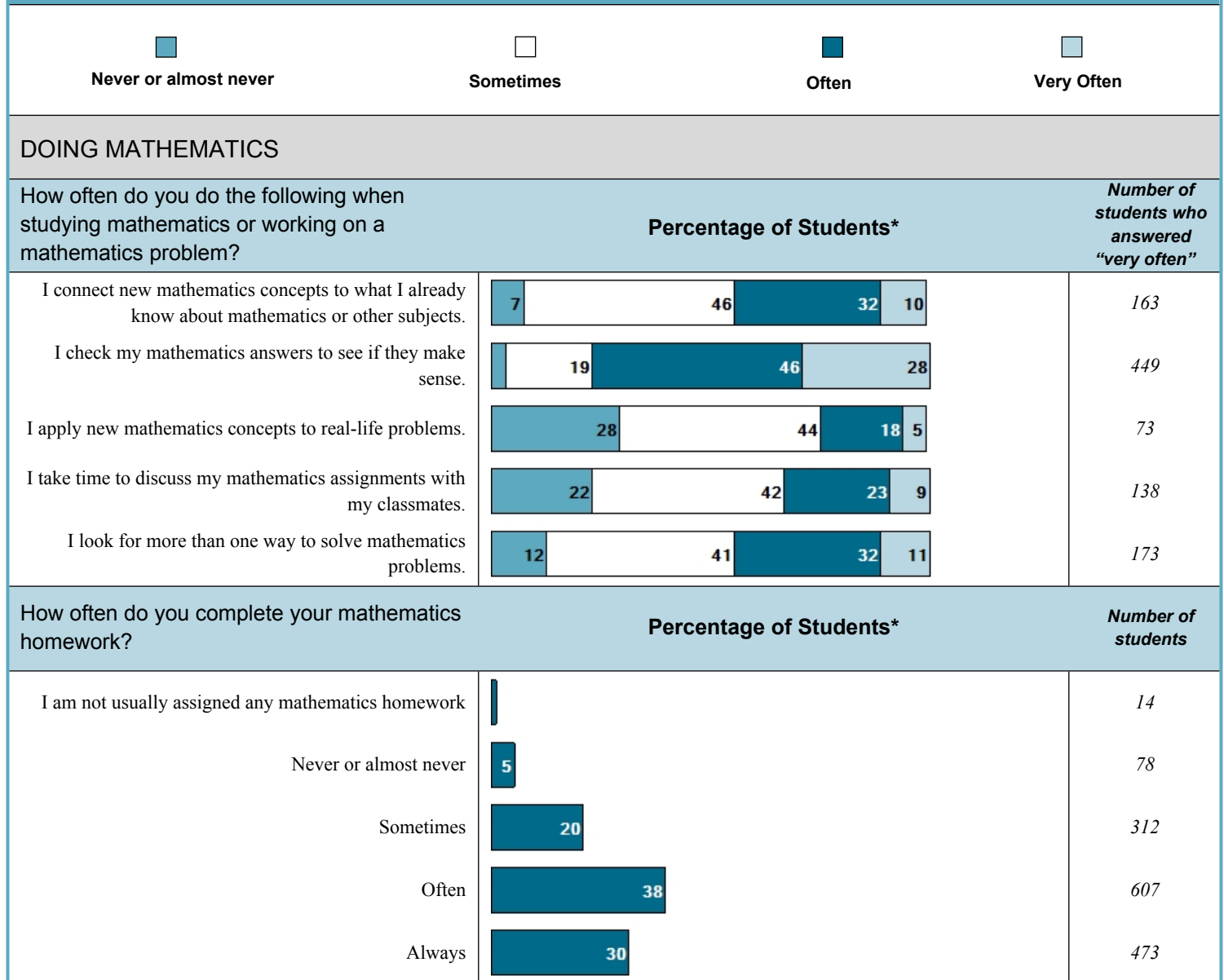
STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# = 1 591)



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

Grade 9 Assessment of Mathematics, 2018–2019, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# = 1 591)



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

Grade 9 Assessment of Mathematics, 2018–2019, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# = 1 591)



Never



1 or 2 times a month



1 to 3 times a week



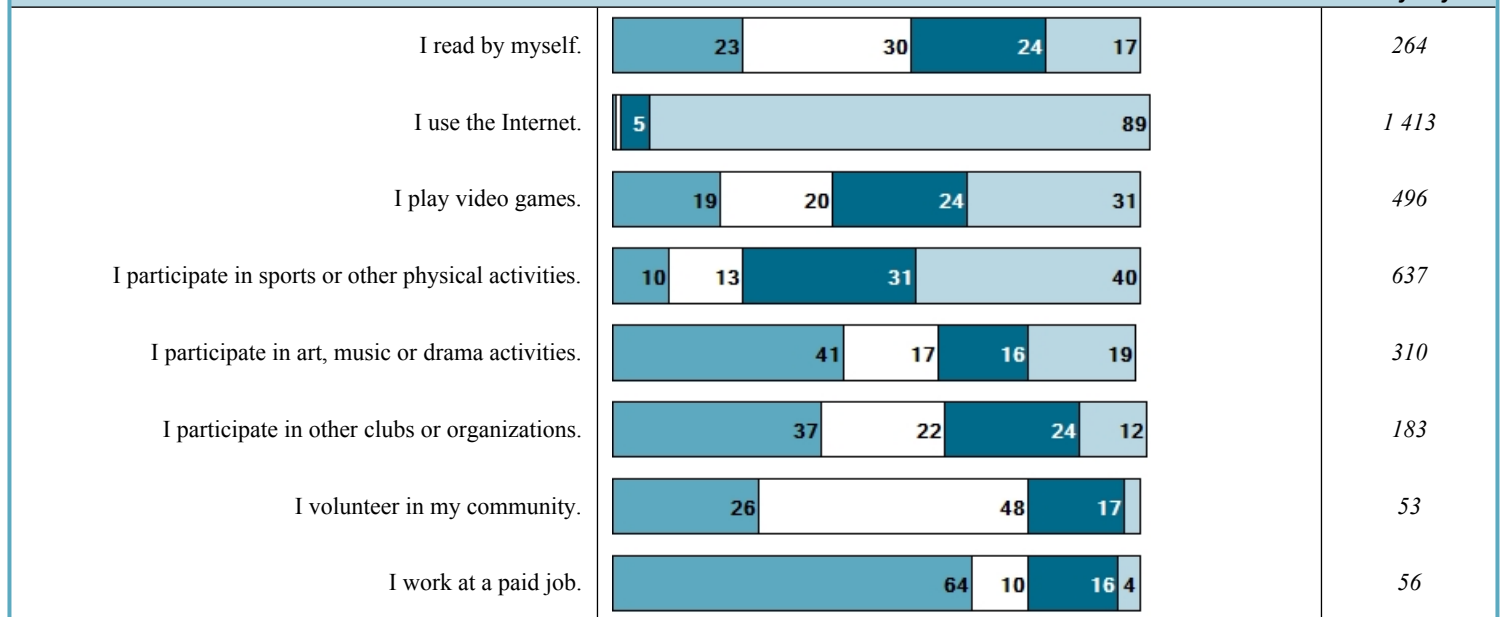
Every day or almost every day

OUT-OF-SCHOOL ACTIVITIES

How often do you do the following when you are not at school?

Percentage of Students*

Number of students who answered "every day or almost every day"



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

Grade 9 Assessment of Mathematics, 2018–2019, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# = 1 591)

SCHOOLS ATTENDED

How many schools did you attend from kindergarten to Grade 8 (home-schooling is counted as one school)?

Percentage of Students*

Number of students

0 schools



9

1 school



579

2 schools



461

3 schools



203

4 schools



119

5 or more schools



109



Only English/Mostly English



Another language (or other languages) as often as English



Mostly another language (or other languages)/Only another language (or other languages)

LANGUAGES SPOKEN

Percentage of Students*

Number of students who answered "only English" or "mostly English"

Languages student speaks at home



1 136

Languages in which people speak to student at home



1 042

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

Grade 9 Assessment of Mathematics, 2018–2019, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR THIS BOARD (# = 1 591)

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

1 125

No

1

6

Don't know

21

337

Total number of students

1 125

Were you told how much the Grade 9 Assessment of Mathematics will count as part of your class mark (e.g., 5%)?†

Percentage of Students*

Number of students

Yes

95

1 069

No

4

50

Total number of students

1 125

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

81

914

No

8

87

Undecided

10

118

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

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

Grade 9 Assessment of Mathematics, 2018–2019, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 1 591)	Female* (# = 806)	Male* (# = 785)	All Students (# = 91 396)	Female* (# = 47 009)	Male* (# = 44 386)
STUDENTS' ATTITUDES TOWARD MATHEMATICS						
Percentage of students indicating they "agree" or "strongly agree" with the following statements:†						
I like mathematics.	61%	58%	64%	57%	52%	63%
I am good at mathematics.	59%	54%	65%	54%	48%	60%
I am able to answer difficult mathematics questions.	52%	43%	60%	49%	41%	58%
Mathematics is one of my favourite subjects.	45%	42%	48%	41%	36%	47%
I understand most of the mathematics I am taught.	79%	78%	80%	75%	72%	77%
Mathematics is an easy subject.	30%	26%	34%	29%	24%	35%
I do my best in mathematics class.	73%	75%	71%	73%	77%	69%
The mathematics I learn now is useful for everyday life.	30%	30%	30%	28%	26%	31%
The mathematics I learn now helps me do work in other subjects.	57%	57%	57%	56%	54%	57%
I need to do well in mathematics to study what I want later.	62%	59%	65%	63%	61%	65%
I need to keep taking mathematics for the kind of job I want after I leave school.	56%	54%	59%	57%	55%	59%
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)	68%	61%	74%	68%	61%	75%
algebra (e.g., solving equations, simplifying expressions with polynomials)	70%	68%	72%	70%	68%	72%
linear relations (e.g., scatter plots, lines of best fit)	60%	55%	65%	61%	55%	67%
analytic geometry (e.g., slope, y-intercept, equations of lines)	62%	59%	65%	62%	58%	66%
measurement (e.g., perimeter, area, volume)	77%	74%	81%	77%	73%	82%
geometry (e.g., angles, parallel lines)	71%	69%	72%	70%	66%	75%

* Includes only students for whom gender data were available.

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

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

Grade 9 Assessment of Mathematics, 2018–2019, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 1 591)	Female* (# = 806)	Male* (# = 785)	All Students (# = 91 396)	Female* (# = 47 009)	Male* (# = 44 386)
DOING MATHEMATICS						
Percentage of students indicating they do the following “very often” when studying mathematics or working on a mathematics problem:†						
I connect new mathematics concepts to what I already know about mathematics or other subjects.	10%	11%	10%	12%	12%	12%
I check my mathematics answers to see if they make sense.	28%	30%	26%	32%	35%	29%
I apply new mathematics concepts to real-life problems.	5%	4%	6%	5%	4%	6%
I take time to discuss my mathematics assignments with my classmates.	9%	10%	7%	12%	13%	11%
I look for more than one way to solve mathematics problems.	11%	10%	12%	13%	12%	14%
Percentage of students indicating they complete their mathematics homework at the following frequencies:‡						
I am not usually assigned any mathematics homework	1%	<1%	1%	2%	2%	2%
Never or almost never	5%	3%	7%	6%	3%	8%
Sometimes	20%	16%	24%	22%	18%	26%
Often	38%	38%	38%	36%	36%	36%
Always	30%	36%	23%	29%	35%	23%

* Includes only students for whom gender data were available.

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

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

Grade 9 Assessment of Mathematics, 2018–2019, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 1 591)	Female* (# = 806)	Male* (# = 785)	All Students (# = 91 396)	Female* (# = 47 009)	Male* (# = 44 386)
OUT-OF-SCHOOL ACTIVITIES						
Percentage of students indicating they do the following “every day or almost every day” when they are not at school:†						
I read by myself.	17%	22%	11%	18%	23%	13%
I use the Internet.	89%	91%	87%	92%	93%	92%
I play video games.	31%	10%	53%	27%	9%	47%
I participate in sports or other physical activities.	40%	34%	46%	41%	33%	48%
I participate in art, music or drama activities.	19%	25%	14%	20%	25%	14%
I participate in other clubs or organizations.	12%	11%	12%	12%	11%	13%
I volunteer in my community.	3%	4%	3%	4%	4%	4%
I work at a paid job.	4%	3%	4%	4%	4%	4%
SCHOOLS ATTENDED						
Percentage of students indicating the number of schools they attended from kindergarten to Grade 8 (home-schooling is counted as one school):‡						
0 schools	1%	<1%	1%	<1%	<1%	1%
1 school	36%	36%	37%	26%	26%	26%
2 schools	29%	29%	29%	33%	33%	33%
3 schools	13%	13%	13%	19%	20%	19%
4 schools	7%	7%	8%	9%	9%	9%
5 or more schools	7%	9%	5%	7%	8%	7%
LANGUAGES SPOKEN						
Percentage of students indicating that they speak the following languages at home:‡						
Only English/Mostly English	71%	72%	71%	69%	69%	68%
Another language (or other languages) as often as English	15%	15%	14%	18%	18%	17%
Mostly another language (or other languages)/ Only another language (or other languages)	7%	7%	6%	9%	8%	10%
Percentage of students indicating the languages people speak to them at home:‡						
Only English/Mostly English	65%	66%	65%	61%	61%	60%
Another language (or other languages) as often as English	12%	12%	11%	16%	16%	15%
Mostly another language (or other languages)/ Only another language (or other languages)	14%	15%	13%	18%	17%	18%

* Includes only students for whom gender data were available.

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

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

Grade 9 Assessment of Mathematics, 2018–2019, Academic Course

STUDENT QUESTIONNAIRE RESULTS FOR BOARD AND PROVINCE (all students, female, male)	Board			Province		
	All Students (# = 1 591)	Female* (# = 806)	Male* (# = 785)	All Students (# = 91 396)	Female* (# = 47 009)	Male* (# = 44 386)
USE OF THE ASSESSMENT IN CLASS MARKS						
Percentage of students indicating their teacher will count some or all parts of the Grade 9 Assessment of Mathematics as part of their class mark:†						
Yes	71%	75%	66%	68%	71%	64%
No	<1%	<1%	1%	1%	1%	1%
Don't know	21%	18%	24%	27%	24%	30%
Percentage of students indicating they were told how much the Grade 9 Assessment of Mathematics will count as part of their class mark:‡						
	All Students (# = 1 125)	Female* (# = 604)	Male* (# = 521)	All Students (# = 62 124)	Female* (# = 33 563)	Male* (# = 28 560)
Yes	95%	95%	96%	95%	95%	95%
No	4%	5%	4%	5%	5%	5%
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 (# = 1 125)	Female* (# = 604)	Male* (# = 521)	All Students (# = 62 124)	Female* (# = 33 563)	Male* (# = 28 560)
Yes	81%	82%	81%	79%	81%	77%
No	8%	6%	10%	9%	7%	12%
Undecided	10%	11%	9%	11%	12%	11%

* Includes only students for whom gender data were available.

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

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

Grade 9 Assessment of Mathematics, 2018–2019

EXPLANATION OF TERMS

All Students	Results are reported for all students in the course.
Participating Students	Results are reported only for those students who took part in the assessment (excludes the “no data” category).
Provincial Standard	The Ministry of Education, in <i>The Ontario Curriculum, Grades 9 and 10: Mathematics</i> , has set Level 3 as the provincial standard.
Level 4 (80–100%)	The student has demonstrated a very high to outstanding level of achievement. Achievement is <i>above</i> the provincial standard.
Level 3 (70–79%)	The student has demonstrated a high level of achievement. Achievement is <i>at</i> the provincial standard.
Level 2 (60–69%)	The student has demonstrated some of the required knowledge and skills. Achievement is <i>below, but approaching</i> , the provincial standard.
Level 1 (50–59%)	The student has demonstrated a passable level of achievement. Achievement is <i>below</i> the provincial standard.
Below Level 1/ Below L1	The student has not demonstrated sufficient achievement of curriculum expectations (below 50%).
No Data	Students who did not have a result due to absence or other reasons.
English Language Learners	Students who have been identified by the school in accordance with <i>English Language Learners: ESL and ELD Programs and Services: Policies and Procedures for Ontario Elementary and Secondary Schools, Kindergarten to Grade 12</i> (2007).
Students Receiving Special Provisions	Students identified by the school as receiving special provisions. Detailed information about special provisions is available in EQAO's <i>Administration and Accommodation Guide</i> .
Students with Special Education Needs (excluding gifted)	Students who have been formally identified by an Identification, Placement and Review Committee, as well as students who have an Individual Education Plan. Students whose sole identified exceptionality is giftedness are not included.
Students Receiving One or More Accommodations	Students identified by the school as receiving accommodations. Detailed information about special accommodations is available in EQAO's <i>Administration and Accommodation Guide</i> .
N/R	“Not reported” indicates that the number of students participating (fewer than 10 in a group) or responding to the Student Questionnaire (fewer than six in a group) is so small that identification of individual student results might be possible; therefore, results are not reported.
N/D	“No data available” is used to indicate that there were no students in the course for the years specified.
W	Results are being withheld by EQAO. For further information, please contact personnel at the board.
EC	Due to exceptional circumstances in 2015, provincial data are unavailable to report provincial results.
NP	Non-participating indicates that due to exceptional circumstances, some or all of the school's or board's students did not participate.