

EQAO Grade 9 Assessment of Mathematics, 2007–2008

Student Questionnaire: Academic Program – All Students School Results

School: St Patrick Catholic SS (838268)

Board: Toronto Catholic District School Board (67059)

Attitudes Toward Mathematics

Number of Respondents	School*		Board*		Province*	
	#	%†	#	%†	#	%†
1. Indicate the degree to which you agree or disagree with each of the following statements.						
a. I like mathematics.						
Strongly agree or agree	16	53%	2 477	56%	51 933	54%
Undecided	8	27%	1 121	25%	24 084	25%
Disagree or strongly disagree	6	20%	827	19%	20 752	21%
no response/ambiguous response	0	0%	10	<1%	291	<1%
b. I am good at mathematics.						
Strongly agree or agree	7	23%	2 218	50%	50 336	52%
Undecided	17	57%	1 453	33%	28 641	30%
Disagree or strongly disagree	6	20%	747	17%	17 694	18%
no response/ambiguous response	0	0%	17	<1%	389	<1%
c. I understand most of the mathematics I am taught.						
Strongly agree or agree	15	50%	3 254	73%	70 198	72%
Undecided	10	33%	826	19%	17 354	18%
Disagree or strongly disagree	5	17%	335	8%	9 081	9%
no response/ambiguous response	0	0%	20	<1%	427	<1%
d. The mathematics I learn now is very useful for everyday life.						
Strongly agree or agree	13	43%	1 834	41%	34 857	36%
Undecided	10	33%	1 406	32%	31 445	32%
Disagree or strongly disagree	7	23%	1 171	26%	30 215	31%
no response/ambiguous response	0	0%	24	1%	543	1%

* Numbers and percentages are based on the total number of students who completed a questionnaire.

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

Grade 9 Assessment of Mathematics, 2007–2008

Student Questionnaire: Academic Program – All Students

Attitudes Toward Mathematics

<i>Number of Respondents</i>	School*		Board*		Province*	
	#	%†	#	%†	#	%†
e. I need to keep taking mathematics for the kind of job I want after I leave school.						
Strongly agree or agree	16	53%	2 492	56%	54 493	56%
Undecided	7	23%	1 330	30%	28 602	29%
Disagree or strongly disagree	7	23%	582	13%	13 385	14%
no response/ambiguous response	0	0%	31	1%	580	1%
f. Mathematics is boring.						
Strongly agree or agree	7	23%	1 205	27%	30 127	31%
Undecided	12	40%	1 264	29%	27 003	28%
Disagree or strongly disagree	11	37%	1 935	44%	39 250	40%
no response/ambiguous response	0	0%	31	1%	680	1%
g. Mathematics is an easy subject.						
Strongly agree or agree	2	7%	1 147	26%	26 296	27%
Undecided	7	23%	1 400	32%	28 105	29%
Disagree or strongly disagree	21	70%	1 857	42%	41 996	43%
no response/ambiguous response	0	0%	31	1%	663	1%

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Grade 9 Assessment of Mathematics, 2007–2008

Student Questionnaire: Academic Program – All Students

Attitudes Toward Mathematics

<i>Number of Respondents</i>	School*		Board*		Province*	
	30		4 435		97 060	
	#	%†	#	%†	#	%†
2. Indicate how easy or hard you find mathematics questions that deal with the following.						
a. Number sense (e.g., operations with integers, rational numbers, exponents)						
Very easy or easy	16	53%	3 006	68%	64 672	67%
Undecided	9	30%	975	22%	21 197	22%
Hard or very hard	4	13%	392	9%	10 127	10%
no response/ambiguous response	1	3%	62	1%	1 064	1%
b. Algebra (e.g., solving equations, simplifying expressions with polynomials)						
Very easy or easy	15	50%	2 801	63%	59 076	61%
Undecided	9	30%	881	20%	19 377	20%
Hard or very hard	5	17%	706	16%	17 631	18%
no response/ambiguous response	1	3%	47	1%	976	1%
c. Linear relations (e.g., scatter plots, lines of best fit)						
Very easy or easy	14	47%	2 482	56%	53 292	55%
Undecided	7	23%	1 232	28%	25 595	26%
Hard or very hard	8	27%	676	15%	17 162	18%
no response/ambiguous response	1	3%	45	1%	1 011	1%
d. Analytic geometry (e.g., slope, y-intercept, equations of lines)						
Very easy or easy	10	33%	2 149	48%	42 499	44%
Undecided	8	27%	1 138	26%	24 787	26%
Hard or very hard	11	37%	1 096	25%	28 688	30%
no response/ambiguous response	1	3%	52	1%	1 086	1%
e. Measurement (e.g., perimeter, area, volume)						
Very easy or easy	23	77%	3 395	77%	73 933	76%
Undecided	2	7%	687	15%	14 742	15%
Hard or very hard	4	13%	297	7%	7 182	7%
no response/ambiguous response	1	3%	56	1%	1 203	1%

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Grade 9 Assessment of Mathematics, 2007–2008

Student Questionnaire: Academic Program – All Students

Attitudes Toward Mathematics

<i>Number of Respondents</i>	School*		Board*		Province*	
	30		4 435		97 060	
	#	%†	#	%†	#	%†
f. Geometry (e.g., angles, parallel lines, quadrilaterals)						
Very easy or easy	17	57%	2 542	57%	59 734	62%
Undecided	9	30%	1 139	26%	22 673	23%
Hard or very hard	3	10%	694	16%	13 396	14%
no response/ambiguous response	1	3%	60	1%	1 257	1%

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Grade 9 Assessment of Mathematics, 2007–2008

Student Questionnaire: Academic Program – All Students

Background

Number of Respondents	School*		Board*		Province*	
	30		4 435		97 060	
	#	%†	#	%†	#	%†
3a. Do you have a computer <i>at home</i> that you use for mathematics school work?						
Yes	13	43%	2 271	51%	52 066	54%
No	15	50%	2 115	48%	44 138	45%
no response/ambiguous response	2	7%	49	1%	856	1%
b. Do you have a scientific calculator <i>at home</i> that you use for mathematics school work?						
Yes	12	40%	3 907	88%	84 030	87%
No	16	53%	481	11%	12 251	13%
no response/ambiguous response	2	7%	47	1%	779	1%
c. Do you have a graphing calculator <i>at home</i> that you use for mathematics school work?						
Yes	3	10%	695	16%	8 530	9%
No	25	83%	3 683	83%	87 513	90%
no response/ambiguous response	2	7%	57	1%	1 017	1%
4a. How much time do you <i>usually</i> spend on mathematics homework (in or out of school) on any given day?						
I usually spend <i>more than 45 minutes</i> on mathematics homework.	3	10%	1 183	27%	22 240	23%
I usually spend <i>between 31 and 45 minutes</i> on mathematics homework.	10	33%	1 691	38%	35 082	36%
I usually spend <i>30 minutes or less</i> on mathematics homework.	11	37%	1 434	32%	36 184	37%
I am not usually assigned any mathematics homework.	4	13%	72	2%	2 504	3%
no response/ambiguous response	2	7%	55	1%	1 050	1%
b. How often do you complete all of your mathematics homework?						
Never or seldom	6	20%	477	11%	11 686	12%
Sometimes	9	30%	1 156	26%	22 897	24%
Often or always	13	43%	2 744	62%	61 317	63%
no response/ambiguous response	2	7%	58	1%	1 160	1%

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Grade 9 Assessment of Mathematics, 2007–2008

Student Questionnaire: Academic Program – All Students

Background

<i>Number of Respondents</i>	School*		Board*		Province*	
	30		4 435		97 060	
	#	%†	#	%†	#	%†
5. What languages do you speak at home?						
Only or mostly English	12	40%	2 794	63%	73 668	76%
Another language (or languages) as often as English	9	30%	960	22%	13 524	14%
Mostly or only another language (or other languages)	7	23%	617	14%	8 608	9%
no response/ambiguous response	2	7%	64	1%	1 260	1%
6. How old are you?						
13 years or younger	1	3%	28	1%	932	1%
14 years	11	37%	2 704	61%	63 423	65%
15 years	14	47%	1 595	36%	30 494	31%
16 years or older	2	7%	49	1%	1 090	1%
no response/ambiguous response	2	7%	59	1%	1 121	1%
7. How often have you been absent from your Grade 9 mathematics class this year?						
Never	6	20%	805	18%	14 035	14%
One to four times	16	53%	2 529	57%	57 266	59%
Five to nine times	5	17%	715	16%	17 737	18%
10 or more times	1	3%	323	7%	6 767	7%
no response/ambiguous response	2	7%	63	1%	1 255	1%
8. How often have you been late for your Grade 9 mathematics class this year?						
Never	8	27%	2 075	47%	44 197	46%
One to four times	14	47%	1 608	36%	37 436	39%
Five to nine times	1	3%	380	9%	8 676	9%
10 or more times	5	17%	305	7%	5 412	6%
no response/ambiguous response	2	7%	67	2%	1 339	1%

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Grade 9 Assessment of Mathematics, 2007–2008

Student Questionnaire: Academic Program – All Students

Background

<i>Number of Respondents</i>	School*		Board*		Province*	
	30		4 435		97 060	
	#	%†	#	%†	#	%†
9. How many elementary schools (kindergarten to Grade 8) did you attend?						
One school	6	20%	1 754	40%	27 105	28%
Two schools	15	50%	1 412	32%	34 270	35%
Three schools	3	10%	687	15%	18 558	19%
Four schools	1	3%	286	6%	8 643	9%
Five schools or more	1	3%	226	5%	7 176	7%
no response/ambiguous response	4	13%	70	2%	1 308	1%

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Grade 9 Assessment of Mathematics, 2007–2008

Student Questionnaire: Academic Program – By Gender

Attitudes Toward Mathematics

Number of Respondents	School*		Board*		Province*	
	30		4 435		97 060	
	Female 8 %†	Male 22 %†	Female 2 307 %†	Male 2 128 %†	Female 49 587 %†	Male 47 469 %†
1. Indicate the degree to which you agree or disagree with each of the following statements.						
a. I like mathematics.						
Strongly agree or agree	25%	64%	51%	62%	48%	59%
Undecided	62%	14%	27%	23%	27%	23%
Disagree or strongly disagree	12%	23%	22%	15%	25%	18%
no response/ambiguous response	0%	0%	<1%	<1%	<1%	<1%
b. I am good at mathematics.						
Strongly agree or agree	0%	32%	41%	59%	45%	59%
Undecided	75%	50%	36%	29%	32%	27%
Disagree or strongly disagree	25%	18%	22%	11%	23%	13%
no response/ambiguous response	0%	0%	<1%	<1%	<1%	<1%
c. I understand most of the mathematics I am taught.						
Strongly agree or agree	50%	50%	70%	77%	69%	76%
Undecided	38%	32%	20%	17%	20%	16%
Disagree or strongly disagree	12%	18%	9%	6%	11%	8%
no response/ambiguous response	0%	0%	<1%	1%	<1%	1%
d. The mathematics I learn now is very useful for everyday life.						
Strongly agree or agree	50%	41%	39%	44%	33%	39%
Undecided	12%	41%	32%	32%	34%	30%
Disagree or strongly disagree	38%	18%	29%	24%	32%	30%
no response/ambiguous response	0%	0%	1%	1%	<1%	1%
e. I need to keep taking mathematics for the kind of job I want after I leave school.						
Strongly agree or agree	38%	59%	54%	59%	54%	59%
Undecided	25%	23%	32%	28%	31%	28%
Disagree or strongly disagree	38%	18%	14%	12%	15%	12%
no response/ambiguous response	0%	0%	1%	1%	<1%	1%

* Numbers and percentages are based on the total number of students who completed a questionnaire and for whom gender data were available.

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Note: N/R "Not reported" indicates that the number of students responding to the questionnaire is so small (fewer than six in a group) that identification of individual results might be possible; therefore, results are not reported.

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

Grade 9 Assessment of Mathematics, 2007–2008

Student Questionnaire: Academic Program – By Gender

Attitudes Toward Mathematics

<i>Number of Respondents</i>	School*		Board*		Province*	
	Female 8 %†	Male 22 %†	Female 2 307 %†	Male 2 128 %†	Female 49 587 %†	Male 47 469 %†
f. Mathematics is boring.						
Strongly agree or agree	12%	27%	27%	28%	31%	31%
Undecided	38%	41%	29%	28%	28%	27%
Disagree or strongly disagree	50%	32%	44%	43%	40%	41%
no response/ambiguous response	0%	0%	1%	1%	1%	1%
g. Mathematics is an easy subject.						
Strongly agree or agree	0%	9%	20%	32%	22%	32%
Undecided	0%	32%	31%	32%	29%	29%
Disagree or strongly disagree	100%	59%	48%	35%	49%	37%
no response/ambiguous response	0%	0%	1%	1%	1%	1%

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Student Questionnaire: Academic Program – By Gender

Attitudes Toward Mathematics

Number of Respondents	School*		Board*		Province*	
	30		4 435		97 060	
	Female 8 %†	Male 22 %†	Female 2 307 %†	Male 2 128 %†	Female 49 587 %†	Male 47 469 %†
2. Indicate how easy or hard you find mathematics questions that deal with the following.						
a. Number sense (e.g., operations with integers, rational numbers, exponents)						
Very easy or easy	62%	50%	64%	72%	63%	70%
Undecided	38%	27%	24%	19%	24%	20%
Hard or very hard	0%	18%	11%	7%	12%	9%
no response/ambiguous response	0%	5%	1%	2%	1%	1%
b. Algebra (e.g., solving equations, simplifying expressions with polynomials)						
Very easy or easy	38%	55%	63%	63%	62%	60%
Undecided	50%	23%	19%	21%	19%	21%
Hard or very hard	12%	18%	17%	15%	18%	18%
no response/ambiguous response	0%	5%	1%	1%	1%	1%
c. Linear relations (e.g., scatter plots, lines of best fit)						
Very easy or easy	25%	55%	53%	59%	52%	58%
Undecided	38%	18%	29%	26%	28%	25%
Hard or very hard	38%	23%	16%	14%	20%	16%
no response/ambiguous response	0%	5%	1%	1%	1%	1%
d. Analytic geometry (e.g., slope, y-intercept, equations of lines)						
Very easy or easy	25%	36%	47%	50%	41%	46%
Undecided	25%	27%	26%	25%	26%	25%
Hard or very hard	50%	32%	26%	23%	32%	27%
no response/ambiguous response	0%	5%	1%	1%	1%	1%
e. Measurement (e.g., perimeter, area, volume)						
Very easy or easy	88%	73%	75%	78%	74%	78%
Undecided	0%	9%	17%	14%	16%	14%
Hard or very hard	12%	14%	7%	7%	8%	7%
no response/ambiguous response	0%	5%	1%	1%	1%	1%

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Grade 9 Assessment of Mathematics, 2007–2008

Student Questionnaire: Academic Program – By Gender

Attitudes Toward Mathematics

<i>Number of Respondents</i>	School*		Board*		Province*	
	Female 8 %†	Male 22 %†	Female 2 307 %†	Male 2 128 %†	Female 49 587 %†	Male 47 469 %†
f. Geometry (e.g., angles, parallel lines, quadrilaterals)						
Very easy or easy	50%	59%	54%	61%	58%	65%
Undecided	38%	27%	28%	24%	25%	22%
Hard or very hard	12%	9%	17%	14%	16%	12%
no response/ambiguous response	0%	5%	1%	1%	1%	1%

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Grade 9 Assessment of Mathematics, 2007–2008

Student Questionnaire: Academic Program – By Gender

Background

Number of Respondents	School*		Board*		Province*	
	30		4 435		97 060	
	Female 8 %†	Male 22 %†	Female 2 307 %†	Male 2 128 %†	Female 49 587 %†	Male 47 469 %†
3a. Do you have a computer <i>at home</i> that you use for mathematics school work?						
Yes	38%	45%	53%	50%	55%	52%
No	62%	45%	46%	49%	44%	47%
no response/ambiguous response	0%	9%	1%	1%	1%	1%
b. Do you have a scientific calculator <i>at home</i> that you use for mathematics school work?						
Yes	38%	41%	90%	86%	89%	84%
No	62%	50%	9%	13%	11%	15%
no response/ambiguous response	0%	9%	1%	1%	1%	1%
c. Do you have a graphing calculator <i>at home</i> that you use for mathematics school work?						
Yes	12%	9%	16%	16%	8%	10%
No	88%	82%	83%	83%	91%	89%
no response/ambiguous response	0%	9%	1%	1%	1%	1%
4a. How much time do you <i>usually</i> spend on mathematics homework (in or out of school) on any given day?						
I usually spend <i>more than 45 minutes</i> on mathematics homework.	12%	9%	30%	23%	26%	19%
I usually spend <i>between 31 and 45 minutes</i> on mathematics homework.	50%	27%	42%	34%	40%	33%
I usually spend <i>30 minutes or less</i> on mathematics homework.	25%	41%	26%	39%	31%	43%
I am not usually assigned any mathematics homework.	12%	14%	1%	2%	2%	3%
no response/ambiguous response	0%	9%	1%	1%	1%	1%
b. How often do you complete all of your mathematics homework?						
Never or seldom	0%	27%	9%	13%	9%	15%
Sometimes	50%	23%	23%	29%	21%	26%
Often or always	50%	41%	66%	57%	69%	58%
no response/ambiguous response	0%	9%	1%	1%	1%	1%

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Student Questionnaire: Academic Program – By Gender

Background

<i>Number of Respondents</i>	School*		Board*		Province*	
	30		4 435		97 060	
	Female 8 %†	Male 22 %†	Female 2 307 %†	Male 2 128 %†	Female 49 587 %†	Male 47 469 %†
5. What languages do you speak at home?						
Only or mostly English	38%	41%	64%	62%	77%	75%
Another language (or languages) as often as English	38%	27%	22%	21%	14%	14%
Mostly or only another language (or other languages)	25%	23%	13%	15%	8%	10%
no response/ambiguous response	0%	9%	2%	1%	1%	1%
6. How old are you?						
13 years or younger	0%	5%	1%	1%	1%	1%
14 years	25%	41%	61%	61%	67%	64%
15 years	62%	41%	36%	36%	31%	32%
16 years or older	12%	5%	1%	1%	1%	1%
no response/ambiguous response	0%	9%	1%	1%	1%	1%
7. How often have you been absent from your Grade 9 mathematics class this year?						
Never	25%	18%	17%	20%	12%	17%
One to four times	75%	45%	59%	55%	60%	58%
Five to nine times	0%	23%	16%	16%	19%	17%
10 or more times	0%	5%	7%	7%	7%	7%
no response/ambiguous response	0%	9%	2%	1%	1%	1%
8. How often have you been late for your Grade 9 mathematics class this year?						
Never	38%	23%	50%	43%	47%	44%
One to four times	50%	45%	36%	36%	39%	38%
Five to nine times	0%	5%	7%	10%	8%	10%
10 or more times	12%	18%	5%	9%	5%	6%
no response/ambiguous response	0%	9%	2%	1%	1%	1%

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Grade 9 Assessment of Mathematics, 2007–2008

Student Questionnaire: Academic Program – By Gender

Background

<i>Number of Respondents</i>	School*		Board*		Province*	
	30		4 435		97 060	
	Female 8 %†	Male 22 %†	Female 2 307 %†	Male 2 128 %†	Female 49 587 %†	Male 47 469 %†
9. How many elementary schools (kindergarten to Grade 8) did you attend?						
One school	12%	23%	39%	40%	28%	28%
Two schools	75%	41%	32%	31%	36%	35%
Three schools	0%	14%	16%	15%	19%	19%
Four schools	12%	0%	7%	6%	9%	9%
Five schools or more	0%	5%	5%	5%	7%	7%
no response/ambiguous response	0%	18%	2%	2%	1%	1%

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