

Student Questionnaire: Academic Program – All Students School Results

School: Cardinal Carter Academy for the Arts (694550)

Board: Toronto Catholic District School Board (67059)

Attitudes Toward Mathematics

Number of Respondents	School*		Board*		Province*	
	#	% [†]	#	% [†]	#	% [†]
	161		4 435		97 060	
1. Indicate the degree to which you agree or disagree with each of the following statements.						
a. I like mathematics.						
Strongly agree or agree	91	57%	2 477	56%	51 933	54%
Undecided	40	25%	1 121	25%	24 084	25%
Disagree or strongly disagree	30	19%	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	83	52%	2 218	50%	50 336	52%
Undecided	51	32%	1 453	33%	28 641	30%
Disagree or strongly disagree	27	17%	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	126	78%	3 254	73%	70 198	72%
Undecided	23	14%	826	19%	17 354	18%
Disagree or strongly disagree	11	7%	335	8%	9 081	9%
no response/ambiguous response	1	1%	20	<1%	427	<1%
d. The mathematics I learn now is very useful for everyday life.						
Strongly agree or agree	66	41%	1 834	41%	34 857	36%
Undecided	48	30%	1 406	32%	31 445	32%
Disagree or strongly disagree	47	29%	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*	
	161		4 435		97 060	
	#	%†	#	%†	#	%†
e. I need to keep taking mathematics for the kind of job I want after I leave school.						
Strongly agree or agree	73	45%	2 492	56%	54 493	56%
Undecided	59	37%	1 330	30%	28 602	29%
Disagree or strongly disagree	29	18%	582	13%	13 385	14%
no response/ambiguous response	0	0%	31	1%	580	1%
f. Mathematics is boring.						
Strongly agree or agree	46	29%	1 205	27%	30 127	31%
Undecided	46	29%	1 264	29%	27 003	28%
Disagree or strongly disagree	69	43%	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	43	27%	1 147	26%	26 296	27%
Undecided	48	30%	1 400	32%	28 105	29%
Disagree or strongly disagree	70	43%	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*	
	161		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	106	66%	3 006	68%	64 672	67%
Undecided	30	19%	975	22%	21 197	22%
Hard or very hard	25	16%	392	9%	10 127	10%
no response/ambiguous response	0	0%	62	1%	1 064	1%
b. Algebra (e.g., solving equations, simplifying expressions with polynomials)						
Very easy or easy	108	67%	2 801	63%	59 076	61%
Undecided	24	15%	881	20%	19 377	20%
Hard or very hard	28	17%	706	16%	17 631	18%
no response/ambiguous response	1	1%	47	1%	976	1%
c. Linear relations (e.g., scatter plots, lines of best fit)						
Very easy or easy	99	61%	2 482	56%	53 292	55%
Undecided	44	27%	1 232	28%	25 595	26%
Hard or very hard	18	11%	676	15%	17 162	18%
no response/ambiguous response	0	0%	45	1%	1 011	1%
d. Analytic geometry (e.g., slope, y-intercept, equations of lines)						
Very easy or easy	88	55%	2 149	48%	42 499	44%
Undecided	45	28%	1 138	26%	24 787	26%
Hard or very hard	28	17%	1 096	25%	28 688	30%
no response/ambiguous response	0	0%	52	1%	1 086	1%
e. Measurement (e.g., perimeter, area, volume)						
Very easy or easy	130	81%	3 395	77%	73 933	76%
Undecided	22	14%	687	15%	14 742	15%
Hard or very hard	9	6%	297	7%	7 182	7%
no response/ambiguous response	0	0%	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*	
	161		4 435		97 060	
	#	%†	#	%†	#	%†
f. Geometry (e.g., angles, parallel lines, quadrilaterals)						
Very easy or easy	108	67%	2 542	57%	59 734	62%
Undecided	29	18%	1 139	26%	22 673	23%
Hard or very hard	24	15%	694	16%	13 396	14%
no response/ambiguous response	0	0%	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*	
	#	%†	#	%†	#	%†
3a. Do you have a computer <i>at home</i> that you use for mathematics school work?						
Yes	73	45%	2 271	51%	52 066	54%
No	87	54%	2 115	48%	44 138	45%
no response/ambiguous response	1	1%	49	1%	856	1%
b. Do you have a scientific calculator <i>at home</i> that you use for mathematics school work?						
Yes	151	94%	3 907	88%	84 030	87%
No	10	6%	481	11%	12 251	13%
no response/ambiguous response	0	0%	47	1%	779	1%
c. Do you have a graphing calculator <i>at home</i> that you use for mathematics school work?						
Yes	11	7%	695	16%	8 530	9%
No	149	93%	3 683	83%	87 513	90%
no response/ambiguous response	1	1%	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.	64	40%	1 183	27%	22 240	23%
I usually spend <i>between 31 and 45 minutes</i> on mathematics homework.	60	37%	1 691	38%	35 082	36%
I usually spend <i>30 minutes or less</i> on mathematics homework.	35	22%	1 434	32%	36 184	37%
I am not usually assigned any mathematics homework.	2	1%	72	2%	2 504	3%
no response/ambiguous response	0	0%	55	1%	1 050	1%
b. How often do you complete all of your mathematics homework?						
Never or seldom	13	8%	477	11%	11 686	12%
Sometimes	16	10%	1 156	26%	22 897	24%
Often or always	132	82%	2 744	62%	61 317	63%
no response/ambiguous response	0	0%	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*	
	161		4 435		97 060	
	#	%†	#	%†	#	%†
5. What languages do you speak at home?						
Only or mostly English	118	73%	2 794	63%	73 668	76%
Another language (or languages) as often as English	29	18%	960	22%	13 524	14%
Mostly or only another language (or other languages)	13	8%	617	14%	8 608	9%
no response/ambiguous response	1	1%	64	1%	1 260	1%
6. How old are you?						
13 years or younger	1	1%	28	1%	932	1%
14 years	118	73%	2 704	61%	63 423	65%
15 years	41	25%	1 595	36%	30 494	31%
16 years or older	1	1%	49	1%	1 090	1%
no response/ambiguous response	0	0%	59	1%	1 121	1%
7. How often have you been absent from your Grade 9 mathematics class this year?						
Never	41	25%	805	18%	14 035	14%
One to four times	101	63%	2 529	57%	57 266	59%
Five to nine times	12	7%	715	16%	17 737	18%
10 or more times	7	4%	323	7%	6 767	7%
no response/ambiguous response	0	0%	63	1%	1 255	1%
8. How often have you been late for your Grade 9 mathematics class this year?						
Never	73	45%	2 075	47%	44 197	46%
One to four times	72	45%	1 608	36%	37 436	39%
Five to nine times	7	4%	380	9%	8 676	9%
10 or more times	8	5%	305	7%	5 412	6%
no response/ambiguous response	1	1%	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*	
	161		4 435		97 060	
	#	%†	#	%†	#	%†
9. How many elementary schools (kindergarten to Grade 8) did you attend?						
One school	48	30%	1 754	40%	27 105	28%
Two schools	60	37%	1 412	32%	34 270	35%
Three schools	31	19%	687	15%	18 558	19%
Four schools	16	10%	286	6%	8 643	9%
Five schools or more	5	3%	226	5%	7 176	7%
no response/ambiguous response	1	1%	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

<i>Number of Respondents</i>	School*		Board*		Province*	
	161		4 435		97 060	
	Female 115 %†	Male 46 %†	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	55%	61%	51%	62%	48%	59%
Undecided	25%	24%	27%	23%	27%	23%
Disagree or strongly disagree	20%	15%	22%	15%	25%	18%
no response/ambiguous response	0%	0%	<1%	<1%	<1%	<1%
b. I am good at mathematics.						
Strongly agree or agree	45%	67%	41%	59%	45%	59%
Undecided	35%	24%	36%	29%	32%	27%
Disagree or strongly disagree	20%	9%	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	74%	89%	70%	77%	69%	76%
Undecided	18%	4%	20%	17%	20%	16%
Disagree or strongly disagree	7%	7%	9%	6%	11%	8%
no response/ambiguous response	1%	0%	<1%	1%	<1%	1%
d. The mathematics I learn now is very useful for everyday life.						
Strongly agree or agree	42%	39%	39%	44%	33%	39%
Undecided	27%	37%	32%	32%	34%	30%
Disagree or strongly disagree	31%	24%	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	46%	43%	54%	59%	54%	59%
Undecided	36%	39%	32%	28%	31%	28%
Disagree or strongly disagree	18%	17%	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 115 %†	Male 46 %†	Female 2 307 %†	Male 2 128 %†	Female 49 587 %†	Male 47 469 %†
f. Mathematics is boring.						
Strongly agree or agree	28%	30%	27%	28%	31%	31%
Undecided	26%	35%	29%	28%	28%	27%
Disagree or strongly disagree	46%	35%	44%	43%	40%	41%
no response/ambiguous response	0%	0%	1%	1%	1%	1%
g. Mathematics is an easy subject.						
Strongly agree or agree	23%	35%	20%	32%	22%	32%
Undecided	32%	24%	31%	32%	29%	29%
Disagree or strongly disagree	44%	41%	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*	
	161		4 435		97 060	
	Female 115 %†	Male 46 %†	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	64%	70%	64%	72%	63%	70%
Undecided	19%	17%	24%	19%	24%	20%
Hard or very hard	17%	13%	11%	7%	12%	9%
no response/ambiguous response	0%	0%	1%	2%	1%	1%
b. Algebra (e.g., solving equations, simplifying expressions with polynomials)						
Very easy or easy	69%	63%	63%	63%	62%	60%
Undecided	15%	15%	19%	21%	19%	21%
Hard or very hard	16%	22%	17%	15%	18%	18%
no response/ambiguous response	1%	0%	1%	1%	1%	1%
c. Linear relations (e.g., scatter plots, lines of best fit)						
Very easy or easy	62%	61%	53%	59%	52%	58%
Undecided	27%	28%	29%	26%	28%	25%
Hard or very hard	11%	11%	16%	14%	20%	16%
no response/ambiguous response	0%	0%	1%	1%	1%	1%
d. Analytic geometry (e.g., slope, y-intercept, equations of lines)						
Very easy or easy	54%	57%	47%	50%	41%	46%
Undecided	28%	28%	26%	25%	26%	25%
Hard or very hard	18%	15%	26%	23%	32%	27%
no response/ambiguous response	0%	0%	1%	1%	1%	1%
e. Measurement (e.g., perimeter, area, volume)						
Very easy or easy	82%	78%	75%	78%	74%	78%
Undecided	13%	15%	17%	14%	16%	14%
Hard or very hard	5%	7%	7%	7%	8%	7%
no response/ambiguous response	0%	0%	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 115 %†	Male 46 %†	Female 2 307 %†	Male 2 128 %†	Female 49 587 %†	Male 47 469 %†
f. Geometry (e.g., angles, parallel lines, quadrilaterals)						
Very easy or easy	67%	67%	54%	61%	58%	65%
Undecided	17%	20%	28%	24%	25%	22%
Hard or very hard	16%	13%	17%	14%	16%	12%
no response/ambiguous response	0%	0%	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*	
	161		4 435		97 060	
	Female 115 %†	Male 46 %†	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	46%	43%	53%	50%	55%	52%
No	53%	57%	46%	49%	44%	47%
no response/ambiguous response	1%	0%	1%	1%	1%	1%
b. Do you have a scientific calculator <i>at home</i> that you use for mathematics school work?						
Yes	96%	89%	90%	86%	89%	84%
No	4%	11%	9%	13%	11%	15%
no response/ambiguous response	0%	0%	1%	1%	1%	1%
c. Do you have a graphing calculator <i>at home</i> that you use for mathematics school work?						
Yes	8%	4%	16%	16%	8%	10%
No	92%	93%	83%	83%	91%	89%
no response/ambiguous response	0%	2%	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.	43%	33%	30%	23%	26%	19%
I usually spend <i>between 31 and 45 minutes</i> on mathematics homework.	39%	33%	42%	34%	40%	33%
I usually spend <i>30 minutes or less</i> on mathematics homework.	18%	30%	26%	39%	31%	43%
I am not usually assigned any mathematics homework.	0%	4%	1%	2%	2%	3%
no response/ambiguous response	0%	0%	1%	1%	1%	1%
b. How often do you complete all of your mathematics homework?						
Never or seldom	6%	13%	9%	13%	9%	15%
Sometimes	8%	15%	23%	29%	21%	26%
Often or always	86%	72%	66%	57%	69%	58%
no response/ambiguous response	0%	0%	1%	1%	1%	1%

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Background

<i>Number of Respondents</i>	School*		Board*		Province*	
	161		4 435		97 060	
	Female 115 %†	Male 46 %†	Female 2 307 %†	Male 2 128 %†	Female 49 587 %†	Male 47 469 %†
5. What languages do you speak at home?						
Only or mostly English	72%	76%	64%	62%	77%	75%
Another language (or languages) as often as English	18%	17%	22%	21%	14%	14%
Mostly or only another language (or other languages)	9%	7%	13%	15%	8%	10%
no response/ambiguous response	1%	0%	2%	1%	1%	1%
6. How old are you?						
13 years or younger	1%	0%	1%	1%	1%	1%
14 years	72%	76%	61%	61%	67%	64%
15 years	26%	24%	36%	36%	31%	32%
16 years or older	1%	0%	1%	1%	1%	1%
no response/ambiguous response	0%	0%	1%	1%	1%	1%
7. How often have you been absent from your Grade 9 mathematics class this year?						
Never	28%	20%	17%	20%	12%	17%
One to four times	61%	67%	59%	55%	60%	58%
Five to nine times	8%	7%	16%	16%	19%	17%
10 or more times	3%	7%	7%	7%	7%	7%
no response/ambiguous response	0%	0%	2%	1%	1%	1%
8. How often have you been late for your Grade 9 mathematics class this year?						
Never	48%	39%	50%	43%	47%	44%
One to four times	44%	46%	36%	36%	39%	38%
Five to nine times	5%	2%	7%	10%	8%	10%
10 or more times	2%	13%	5%	9%	5%	6%
no response/ambiguous response	1%	0%	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*	
	161		4 435		97 060	
	Female 115 %†	Male 46 %†	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	26%	39%	39%	40%	28%	28%
Two schools	38%	35%	32%	31%	36%	35%
Three schools	20%	17%	16%	15%	19%	19%
Four schools	13%	2%	7%	6%	9%	9%
Five schools or more	2%	7%	5%	5%	7%	7%
no response/ambiguous response	1%	0%	2%	2%	1%	1%

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