



Grade 9 Assessment of Mathematics, 2004–2005

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

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	#	% ²	#	% ²	#	% ²
	164		4 542		101 324	
1. Indicate the degree to which you agree or disagree with each of the following statements.						
a. I like mathematics.						
Strongly agree or agree	93	57%	2 397	53%	52 695	52%
Undecided	29	18%	1 117	25%	23 974	24%
Disagree or strongly disagree	42	26%	1 017	22%	24 445	24%
no response	0	0%	11	<1%	210	<1%
b. I am good at mathematics.						
Strongly agree or agree	95	58%	2 153	47%	53 107	52%
Undecided	35	21%	1 477	33%	28 755	28%
Disagree or strongly disagree	33	20%	897	20%	19 146	19%
no response	1	1%	15	<1%	316	<1%
c. I understand most of the mathematics I am taught.						
Strongly agree or agree	121	74%	3 212	71%	74 325	73%
Undecided	25	15%	856	19%	16 888	17%
Disagree or strongly disagree	18	11%	453	10%	9 610	9%
no response	0	0%	21	<1%	501	<1%
d. The mathematics I learn now is very useful for everyday life.						
Strongly agree or agree	72	44%	2 009	44%	38 789	38%
Undecided	55	34%	1 422	31%	32 807	32%
Disagree or strongly disagree	37	23%	1 088	24%	29 263	29%
no response	0	0%	23	1%	465	<1%

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

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

Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Academic Program–All Students

Attitudes Toward Mathematics

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	164		4 542		101 324	
	#	% ²	#	% ²	#	% ²
e. I need to keep taking mathematics for the kind of job I want after I leave school.						
Strongly agree or agree	76	46%	2 497	55%	57 942	57%
Undecided	50	30%	1 393	31%	30 201	30%
Disagree or strongly disagree	38	23%	637	14%	12 837	13%
no response	0	0%	15	<1%	344	<1%
f. Mathematics is boring.						
Strongly agree or agree	47	29%	1 284	28%	32 975	33%
Undecided	41	25%	1 323	29%	28 598	28%
Disagree or strongly disagree	76	46%	1 916	42%	39 404	39%
no response	0	0%	19	<1%	347	<1%
g. Mathematics is an easy subject.						
Strongly agree or agree	45	27%	1 163	26%	29 550	29%
Undecided	47	29%	1 298	29%	27 981	28%
Disagree or strongly disagree	72	44%	2 059	45%	43 390	43%
no response	0	0%	22	<1%	403	<1%

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Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Academic Program–All Students

Attitudes Toward Mathematics

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	164		4 542		101 324	
	#	% ²	#	% ²	#	% ²
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	110	67%	3 085	68%	67 512	67%
Undecided	37	23%	1 037	23%	22 435	22%
Hard or very hard	17	10%	401	9%	10 903	11%
no response	0	0%	19	<1%	474	<1%
b. Algebra (e.g., solving equations, simplifying expressions with polynomials)						
Very easy or easy	100	61%	2 677	59%	60 046	59%
Undecided	29	18%	1 014	22%	20 807	21%
Hard or very hard	35	21%	822	18%	19 946	20%
no response	0	0%	29	1%	525	1%
c. Relationships (e.g., scatter plots, lines of best fit)						
Very easy or easy	109	66%	2 547	56%	60 027	59%
Undecided	43	26%	1 379	30%	26 803	26%
Hard or very hard	11	7%	577	13%	13 699	14%
no response	1	1%	39	1%	795	1%
d. Analytic geometry (e.g., slope, y-intercept, equations of lines)						
Very easy or easy	93	57%	1 989	44%	44 689	44%
Undecided	28	17%	1 201	26%	25 297	25%
Hard or very hard	42	26%	1 303	29%	30 349	30%
no response	1	1%	49	1%	989	1%
e. Measurement (e.g., volume, perimeter, surface area)						
Very easy or easy	112	68%	3 310	73%	73 671	73%
Undecided	37	23%	837	18%	17 445	17%
Hard or very hard	15	9%	363	8%	9 502	9%
no response	0	0%	32	1%	706	1%

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

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Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Academic Program–All Students

Attitudes Toward Mathematics

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	164		4 542		101 324	
	#	% ²	#	% ²	#	% ²
f. Geometry (e.g., angles, medians, quadrilaterals)						
Very easy or easy	97	59%	2 849	63%	64 438	64%
Undecided	42	26%	1 152	25%	23 536	23%
Hard or very hard	25	15%	501	11%	12 624	12%
no response	0	0%	40	1%	726	1%

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Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire:
Academic Program–All Students

Background

Number of Respondents	School ¹		Board ¹		Province ¹	
	164		4 542		101 324	
	#	% ²	#	% ²	#	% ²
3a. Do you have a computer <i>at home</i> that you use for mathematics school work?						
Yes	54	33%	2 122	47%	47 184	47%
No	110	67%	2 344	52%	52 462	52%
no response	0	0%	76	2%	1 678	2%
b. Do you have a scientific calculator <i>at home</i> that you use for mathematics school work?						
Yes	151	92%	3 910	86%	86 203	85%
No	13	8%	564	12%	13 452	13%
no response	0	0%	68	1%	1 669	2%
c. Do you have a graphing calculator <i>at home</i> that you use for mathematics school work?						
Yes	8	5%	669	15%	7 183	7%
No	156	95%	3 800	84%	92 428	91%
no response	0	0%	73	2%	1 713	2%
4a. How much time to 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.	49	30%	1 217	27%	21 270	21%
I usually spend <i>between 31 and 45 minutes</i> on mathematics homework.	69	42%	1 774	39%	35 111	35%
I usually spend <i>30 minutes or less</i> on mathematics homework.	44	27%	1 342	30%	39 352	39%
I usually am not assigned any mathematics homework.	1	1%	77	2%	2 399	2%
no response	1	1%	132	3%	3 192	3%
b. How often do you complete all of your mathematics homework?						
Never or seldom	7	4%	366	8%	9 476	9%
Sometimes	29	18%	1 080	24%	22 714	22%
Often or always	126	77%	2 956	65%	65 867	65%
no response	2	1%	140	3%	3 267	3%

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Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Academic Program–All Students

Background

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	164		4 542		101 324	
	#	% ²	#	% ²	#	% ²
5. What languages do you speak at home?						
Only or mostly English.	128	78%	2 823	62%	76 985	76%
Another language (or languages) as often as English	20	12%	985	22%	12 749	13%
Mostly or only another language (or other languages)	15	9%	593	13%	8 358	8%
no response	1	1%	141	3%	3 232	3%
6. How old are you?						
13 years or younger	0	0%	17	<1%	580	1%
14 years	127	77%	2 871	63%	65 340	64%
15 years	36	22%	1 463	32%	31 067	31%
16 years or older	0	0%	50	1%	1 087	1%
no response	1	1%	141	3%	3 250	3%
7. How often have you been absent from your Grade 9 mathematics class this year?						
Never	31	19%	871	19%	13 959	14%
One to four times	96	59%	2 485	55%	57 331	57%
Five to nine times	26	16%	731	16%	19 255	19%
10 or more times	10	6%	317	7%	7 470	7%
no response	1	1%	138	3%	3 309	3%
8. How often have you been late for your Grade 9 mathematics class this year?						
Never	58	35%	2 218	49%	46 039	45%
One to four times	78	48%	1 610	35%	38 560	38%
Five to nine times	16	10%	376	8%	8 267	8%
10 or more times	11	7%	198	4%	5 170	5%
no response	1	1%	140	3%	3 288	3%

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Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Academic Program–All Students

Background

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	164		4 542		101 324	
	#	% ²	#	% ²	#	% ²
9. How many elementary schools (kindergarten to Grade 8) did you attend?						
One school	38	23%	1 748	38%	27 682	27%
Two schools	77	47%	1 468	32%	35 096	35%
Three schools	36	22%	727	16%	19 154	19%
Four schools	11	7%	237	5%	8 654	9%
Five schools or more	1	1%	220	5%	7 393	7%
no response	1	1%	142	3%	3 345	3%

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Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Academic Program– By Gender School Results

School : Cardinal Carter Academy for the Arts (694550)

Board : Toronto Catholic District School Board (67059)

Attitudes Toward Mathematics

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	164		4 542		101 324	
	Female 118 % ²	Male 41 % ²	Female 2 266 % ²	Male 1 953 % ²	Female 50 741 % ²	Male 48 857 % ²
1. Indicate the degree to which you agree or disagree with each of the following statements.						
a. I like mathematics.						
Strongly agree or agree	58%	54%	49%	57%	48%	56%
Undecided	17%	20%	25%	23%	25%	22%
Disagree or strongly disagree	25%	27%	26%	19%	27%	22%
no response	0%	0%	<1%	<1%	<1%	<1%
b. I am good at mathematics.						
Strongly agree or agree	59%	54%	41%	55%	46%	59%
Undecided	20%	24%	35%	29%	31%	26%
Disagree or strongly disagree	19%	22%	24%	16%	23%	15%
no response	1%	0%	<1%	<1%	<1%	<1%
c. I understand most of the mathematics I am taught.						
Strongly agree or agree	76%	68%	67%	74%	70%	77%
Undecided	14%	17%	21%	17%	18%	15%
Disagree or strongly disagree	10%	15%	11%	9%	11%	8%
no response	0%	0%	<1%	<1%	<1%	1%
d. The mathematics I learn now is very useful for everyday life.						
Strongly agree or agree	44%	41%	43%	46%	35%	41%
Undecided	36%	27%	32%	30%	35%	29%
Disagree or strongly disagree	19%	32%	24%	24%	29%	29%
no response	0%	0%	<1%	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.
2. Percentages may not add up to 100, due to rounding.

Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Academic Program–By Gender

Attitudes Toward Mathematics

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	164		4 542		101 324	
	Female 118 % ²	Male 41 % ²	Female 2 266 % ²	Male 1 953 % ²	Female 50 741 % ²	Male 48 857 % ²
e. I need to keep taking mathematics for the kind of job I want after I leave school.						
Strongly agree or agree	47%	46%	53%	58%	54%	60%
Undecided	33%	24%	31%	30%	31%	28%
Disagree or strongly disagree	20%	29%	16%	12%	14%	11%
no response	0%	0%	<1%	<1%	<1%	<1%
f. Mathematics is boring.						
Strongly agree or agree	28%	29%	28%	29%	32%	34%
Undecided	25%	27%	29%	30%	29%	28%
Disagree or strongly disagree	47%	44%	43%	41%	39%	38%
no response	0%	0%	<1%	1%	<1%	<1%
g. Mathematics is an easy subject.						
Strongly agree or agree	28%	27%	21%	31%	24%	35%
Undecided	31%	24%	28%	29%	28%	28%
Disagree or strongly disagree	41%	49%	50%	39%	48%	37%
no response	0%	0%	<1%	1%	<1%	<1%

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Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Academic Program–By Gender

Attitudes Toward Mathematics

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	164		4 542		101 324	
	Female 118 % ²	Male 41 % ²	Female 2 266 % ²	Male 1 953 % ²	Female 50 741 % ²	Male 48 857 % ²
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	69%	61%	65%	72%	63%	71%
Undecided	24%	22%	25%	20%	24%	20%
Hard or very hard	8%	17%	10%	7%	13%	9%
no response	0%	0%	<1%	1%	<1%	1%
b. Algebra (e.g., solving equations, simplifying expressions with polynomials)						
Very easy or easy	65%	49%	60%	57%	59%	59%
Undecided	15%	24%	20%	24%	20%	21%
Hard or very hard	19%	27%	19%	18%	20%	19%
no response	0%	0%	<1%	1%	<1%	1%
c. Relationships (e.g., scatter plots, lines of best fit)						
Very easy or easy	68%	59%	55%	57%	57%	62%
Undecided	26%	29%	31%	30%	28%	25%
Hard or very hard	5%	12%	14%	12%	15%	12%
no response	1%	0%	1%	1%	1%	1%
d. Analytic geometry (e.g., slope, y-intercept, equations of lines)						
Very easy or easy	59%	49%	43%	44%	41%	47%
Undecided	16%	20%	26%	27%	25%	24%
Hard or very hard	25%	29%	30%	28%	33%	27%
no response	0%	2%	1%	1%	1%	1%
e. Measurement (e.g., volume, perimeter, surface area)						
Very easy or easy	64%	78%	70%	76%	70%	76%
Undecided	27%	10%	20%	16%	19%	16%
Hard or very hard	8%	12%	9%	7%	11%	8%
no response	0%	0%	<1%	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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Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Academic Program–By Gender

Attitudes Toward Mathematics

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	164		4 542		101 324	
	Female 118 % ²	Male 41 % ²	Female 2 266 % ²	Male 1 953 % ²	Female 50 741 % ²	Male 48 857 % ²
f. Geometry (e.g., angles, medians, quadrilaterals)						
Very easy or easy	63%	49%	59%	66%	60%	67%
Undecided	20%	41%	27%	23%	25%	21%
Hard or very hard	17%	10%	13%	10%	14%	11%
no response	0%	0%	1%	1%	1%	1%

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Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Academic Program–By Gender

Background

Number of Respondents	School ¹		Board ¹		Province ¹	
	164		4 542		101 324	
	Female 118 % ²	Male 41 % ²	Female 2 266 % ²	Male 1 953 % ²	Female 50 741 % ²	Male 48 857 % ²
3a. Do you have a computer <i>at home</i> that you use for mathematics school work?						
Yes	37%	17%	48%	44%	47%	46%
No	63%	83%	51%	54%	51%	52%
no response	0%	0%	1%	2%	1%	2%
b. Do you have a scientific calculator <i>at home</i> that you use for mathematics school work?						
Yes	92%	95%	88%	83%	87%	83%
No	8%	5%	10%	15%	11%	15%
no response	0%	0%	1%	2%	1%	2%
c. Do you have a graphing calculator <i>at home</i> that you use for mathematics school work?						
Yes	3%	10%	12%	14%	6%	8%
No	97%	90%	87%	84%	92%	90%
no response	0%	0%	1%	2%	1%	2%
4a. How much time to 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.	35%	17%	30%	22%	24%	18%
I usually spend <i>between 31 and 45 minutes</i> on mathematics homework.	43%	39%	42%	36%	38%	31%
I usually spend <i>30 minutes or less</i> on mathematics homework.	20%	44%	25%	37%	33%	45%
I usually am not assigned any mathematics homework.	1%	0%	1%	2%	1%	3%
no response	1%	0%	2%	3%	3%	3%
b. How often do you complete all of your mathematics homework?						
Never or seldom	3%	7%	7%	10%	7%	12%
Sometimes	12%	32%	22%	27%	20%	25%
Often or always	83%	61%	68%	61%	70%	60%
no response	2%	0%	3%	3%	3%	3%

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Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Academic Program–By Gender

Background

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	164		4 542		101 324	
	Female 118 % ²	Male 41 % ²	Female 2 266 % ²	Male 1 953 % ²	Female 50 741 % ²	Male 48 857 % ²
5. What languages do you speak at home?						
Only or mostly English.	79%	76%	63%	62%	77%	75%
Another language (or languages) as often as English	10%	17%	22%	21%	13%	12%
Mostly or only another language (or other languages)	10%	7%	12%	13%	7%	9%
no response	1%	0%	3%	3%	3%	3%
6. How old are you?						
13 years or younger	0%	0%	<1%	<1%	1%	1%
14 years	77%	83%	62%	63%	65%	64%
15 years	22%	17%	34%	32%	30%	31%
16 years or older	0%	0%	1%	1%	1%	1%
no response	1%	0%	3%	3%	3%	3%
7. How often have you been absent from your Grade 9 mathematics class this year?						
Never	15%	32%	17%	22%	12%	16%
One to four times	62%	49%	56%	52%	58%	55%
Five to nine times	14%	17%	16%	16%	20%	18%
10 or more times	8%	2%	8%	7%	8%	7%
no response	1%	0%	3%	3%	3%	3%
8. How often have you been late for your Grade 9 mathematics class this year?						
Never	31%	49%	49%	46%	46%	45%
One to four times	50%	39%	37%	36%	39%	38%
Five to nine times	12%	5%	8%	9%	8%	8%
10 or more times	6%	7%	4%	6%	4%	6%
no response	1%	0%	3%	3%	3%	3%

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Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Academic Program–By Gender

Background

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	164		4 542		101 324	
	Female 118 % ²	Male 41 % ²	Female 2 266 % ²	Male 1 953 % ²	Female 50 741 % ²	Male 48 857 % ²
9. How many elementary schools (kindergarten to Grade 8) did you attend?						
One school	25%	15%	38%	39%	27%	27%
Two schools	42%	59%	32%	32%	35%	35%
Three schools	24%	20%	16%	16%	19%	19%
Four schools	7%	7%	6%	5%	9%	9%
Five schools or more	1%	0%	6%	4%	7%	7%
no response	1%	0%	3%	3%	3%	3%

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