



Education
Quality and
Accountability
Office

Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Applied Program–All Students School Results

School : Cardinal Newman HS (694193)

Board : Toronto Catholic District School Board (67059)

Attitudes Toward Mathematics

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	#	% ²	#	% ²	#	% 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	39	56%	721	34%	15 306	33%
Undecided	14	20%	581	27%	11 502	25%
Disagree or strongly disagree	17	24%	829	39%	19 187	42%
no response	0	0%	15	1%	190	<1%
b. I am good at mathematics.						
Strongly agree or agree	29	41%	589	27%	15 110	33%
Undecided	26	37%	813	38%	15 196	33%
Disagree or strongly disagree	15	21%	722	34%	15 593	34%
no response	0	0%	22	1%	286	1%
c. I understand most of the mathematics I am taught.						
Strongly agree or agree	54	77%	1 276	59%	27 763	60%
Undecided	7	10%	542	25%	10 902	24%
Disagree or strongly disagree	8	11%	305	14%	7 118	15%
no response	1	1%	23	1%	402	1%
d. The mathematics I learn now is very useful for everyday life.						
Strongly agree or agree	43	61%	1 009	47%	17 588	38%
Undecided	21	30%	602	28%	13 973	30%
Disagree or strongly disagree	6	9%	513	24%	14 245	31%
no response	0	0%	22	1%	379	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: Applied Program–All Students

Attitudes Toward Mathematics

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	70		2 146		46 185	
	#	% 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	31	44%	973	45%	19 371	42%
Undecided	22	31%	629	29%	15 755	34%
Disagree or strongly disagree	17	24%	515	24%	10 749	23%
no response	0	0%	29	1%	310	1%
f. Mathematics is boring.						
Strongly agree or agree	22	31%	888	41%	21 288	46%
Undecided	16	23%	572	27%	11 185	24%
Disagree or strongly disagree	32	46%	663	31%	13 395	29%
no response	0	0%	23	1%	317	1%
g. Mathematics is an easy subject.						
Strongly agree or agree	15	21%	343	16%	9 846	21%
Undecided	24	34%	617	29%	12 948	28%
Disagree or strongly disagree	31	44%	1 160	54%	23 029	50%
no response	0	0%	26	1%	362	1%

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Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Applied Program–All Students

Attitudes Toward Mathematics

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	70		2 146		46 185	
	#	% 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	37	53%	1 029	48%	22 299	48%
Undecided	23	33%	760	35%	14 657	32%
Hard or very hard	9	13%	321	15%	8 744	19%
no response	1	1%	36	2%	485	1%
b. Algebra (e.g., solving equations, simplifying expressions with polynomials)						
Very easy or easy	27	39%	807	38%	18 488	40%
Undecided	27	39%	667	31%	12 843	28%
Hard or very hard	16	23%	637	30%	14 339	31%
no response	0	0%	35	2%	515	1%
c. Relationships (e.g., scatter plots, lines of best fit)						
Very easy or easy	60	86%	1 101	51%	25 812	56%
Undecided	6	9%	666	31%	12 303	27%
Hard or very hard	4	6%	337	16%	7 415	16%
no response	0	0%	42	2%	655	1%
d. Analytic geometry (e.g., slope, y-intercept, equations of lines)						
Very easy or easy	35	50%	919	43%	18 751	41%
Undecided	17	24%	596	28%	13 207	29%
Hard or very hard	18	26%	586	27%	13 432	29%
no response	0	0%	45	2%	795	2%
e. Measurement (e.g., volume, perimeter, surface area)						
Very easy or easy	35	50%	1 170	55%	27 850	60%
Undecided	18	26%	586	27%	10 515	23%
Hard or very hard	17	24%	346	16%	7 185	16%
no response	0	0%	44	2%	635	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: Applied Program–All Students

Attitudes Toward Mathematics

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	70		2 146		46 185	
	#	% ²	#	% ²	#	% ²
f. Geometry (e.g., angles, medians, quadrilaterals)						
Very easy or easy	28	40%	888	41%	20 606	45%
Undecided	23	33%	723	34%	14 523	31%
Hard or very hard	18	26%	490	23%	10 405	23%
no response	1	1%	45	2%	651	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: Applied Program–All Students

Background

Number of Respondents	School ¹		Board ¹		Province ¹	
	70		2 146		46 185	
	#	% ²	#	% ²	#	% ²
3a. Do you have a computer <i>at home</i> that you use for mathematics school work?						
Yes	30	43%	766	36%	17 183	37%
No	40	57%	1 303	61%	27 682	60%
no response	0	0%	77	4%	1 320	3%
b. Do you have a scientific calculator <i>at home</i> that you use for mathematics school work?						
Yes	48	69%	1 570	73%	33 084	72%
No	22	31%	499	23%	11 780	26%
no response	0	0%	77	4%	1 321	3%
c. Do you have a graphing calculator <i>at home</i> that you use for mathematics school work?						
Yes	5	7%	219	10%	3 030	7%
No	65	93%	1 847	86%	41 799	91%
no response	0	0%	80	4%	1 356	3%
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.	5	7%	339	16%	5 363	12%
I usually spend <i>between 31 and 45 minutes</i> on mathematics homework.	20	29%	575	27%	9 568	21%
I usually spend <i>30 minutes or less</i> on mathematics homework.	35	50%	952	44%	21 650	47%
I usually am not assigned any mathematics homework.	6	9%	170	8%	7 064	15%
no response	4	6%	110	5%	2 540	6%
b. How often do you complete all of your mathematics homework?						
Never or seldom	9	13%	251	12%	6 755	15%
Sometimes	19	27%	785	37%	14 106	31%
Often or always	38	54%	1 000	47%	22 846	49%
no response	4	6%	110	5%	2 478	5%

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Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Applied Program–All Students

Background

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	70		2 146		46 185	
	#	% ²	#	% ²	#	% ²
5. What languages do you speak at home?						
Only or mostly English.	53	76%	1 185	55%	36 433	79%
Another language (or languages) as often as English	10	14%	523	24%	4 626	10%
Mostly or only another language (or other languages)	4	6%	327	15%	2 686	6%
no response	3	4%	111	5%	2 440	5%
6. How old are you?						
13 years or younger	0	0%	3	<1%	128	<1%
14 years	47	67%	996	46%	22 348	48%
15 years	16	23%	807	38%	16 554	36%
16 years or older	4	6%	230	11%	4 681	10%
no response	3	4%	110	5%	2 474	5%
7. How often have you been absent from your Grade 9 mathematics class this year?						
Never	12	17%	294	14%	4 422	10%
One to four times	34	49%	916	43%	20 489	44%
Five to nine times	15	21%	494	23%	10 757	23%
10 or more times	6	9%	330	15%	7 990	17%
no response	3	4%	112	5%	2 527	5%
8. How often have you been late for your Grade 9 mathematics class this year?						
Never	25	36%	627	29%	13 218	29%
One to four times	30	43%	802	37%	18 074	39%
Five to nine times	6	9%	331	15%	6 545	14%
10 or more times	6	9%	276	13%	5 844	13%
no response	3	4%	110	5%	2 504	5%

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Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Applied Program–All Students

Background

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	70		2 146		46 185	
	#	% ²	#	% ²	#	% ²
9. How many elementary schools (kindergarten to Grade 8) did you attend?						
One school	21	30%	696	32%	11 279	24%
Two schools	22	31%	699	33%	14 073	30%
Three schools	10	14%	333	16%	8 509	18%
Four schools	8	11%	165	8%	4 537	10%
Five schools or more	6	9%	138	6%	5 214	11%
no response	3	4%	115	5%	2 573	6%

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Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Applied Program–By Gender School Results

School : Cardinal Newman HS (694193)

Board : Toronto Catholic District School Board (67059)

Attitudes Toward Mathematics

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	70		2 146		46 185	
	Female 25 % ²	Male 45 % ²	Female 978 % ²	Male 1 082 % ²	Female 20 345 % ²	Male 24 778 % 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	64%	51%	28%	39%	29%	37%
Undecided	20%	20%	28%	27%	25%	25%
Disagree or strongly disagree	16%	29%	44%	33%	46%	38%
no response	0%	0%	1%	1%	<1%	<1%
b. I am good at mathematics.						
Strongly agree or agree	40%	42%	20%	34%	25%	39%
Undecided	40%	36%	38%	38%	33%	32%
Disagree or strongly disagree	20%	22%	41%	27%	41%	28%
no response	0%	0%	1%	1%	1%	1%
c. I understand most of the mathematics I am taught.						
Strongly agree or agree	76%	78%	57%	62%	56%	64%
Undecided	8%	11%	26%	24%	26%	22%
Disagree or strongly disagree	12%	11%	16%	13%	18%	13%
no response	4%	0%	1%	1%	1%	1%
d. The mathematics I learn now is very useful for everyday life.						
Strongly agree or agree	60%	62%	46%	48%	35%	40%
Undecided	32%	29%	30%	27%	32%	29%
Disagree or strongly disagree	8%	9%	23%	24%	31%	30%
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: Applied Program– By Gender

Attitudes Toward Mathematics

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	70		2 146		46 185	
	Female 25 % ²	Male 45 % ²	Female 978 % ²	Male 1 082 % ²	Female 20 345 % ²	Male 24 778 % ²
e. I need to keep taking mathematics for the kind of job I want after I leave school.						
Strongly agree or agree	32%	51%	43%	48%	38%	45%
Undecided	36%	29%	30%	29%	36%	32%
Disagree or strongly disagree	32%	20%	26%	22%	26%	21%
no response	0%	0%	1%	1%	1%	1%
f. Mathematics is boring.						
Strongly agree or agree	12%	42%	41%	41%	46%	46%
Undecided	24%	22%	28%	26%	24%	24%
Disagree or strongly disagree	64%	36%	30%	32%	29%	29%
no response	0%	0%	1%	1%	1%	1%
g. Mathematics is an easy subject.						
Strongly agree or agree	20%	22%	13%	18%	16%	26%
Undecided	40%	31%	25%	32%	26%	30%
Disagree or strongly disagree	40%	47%	61%	48%	57%	44%
no response	0%	0%	1%	1%	1%	1%

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Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Applied Program– By Gender

Attitudes Toward Mathematics

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	70		2 146		46 185	
	Female 25 % ²	Male 45 % ²	Female 978 % ²	Male 1 082 % ²	Female 20 345 % ²	Male 24 778 % 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	48%	56%	45%	51%	45%	51%
Undecided	40%	29%	36%	34%	32%	31%
Hard or very hard	8%	16%	17%	13%	21%	17%
no response	4%	0%	2%	2%	1%	1%
b. Algebra (e.g., solving equations, simplifying expressions with polynomials)						
Very easy or easy	36%	40%	38%	38%	40%	40%
Undecided	32%	42%	29%	33%	27%	29%
Hard or very hard	32%	18%	31%	28%	33%	30%
no response	0%	0%	1%	2%	1%	1%
c. Relationships (e.g., scatter plots, lines of best fit)						
Very easy or easy	88%	84%	51%	52%	56%	56%
Undecided	8%	9%	30%	32%	26%	27%
Hard or very hard	4%	7%	17%	14%	17%	15%
no response	0%	0%	2%	2%	1%	2%
d. Analytic geometry (e.g., slope, y-intercept, equations of lines)						
Very easy or easy	56%	47%	43%	43%	39%	42%
Undecided	28%	22%	27%	28%	28%	29%
Hard or very hard	16%	31%	28%	27%	32%	27%
no response	0%	0%	2%	2%	2%	2%
e. Measurement (e.g., volume, perimeter, surface area)						
Very easy or easy	52%	49%	54%	56%	58%	62%
Undecided	28%	24%	27%	27%	24%	22%
Hard or very hard	20%	27%	17%	15%	17%	14%
no response	0%	0%	2%	2%	1%	1%

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Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Applied Program– By Gender

Attitudes Toward Mathematics

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	70		2 146		46 185	
	Female 25 % ²	Male 45 % ²	Female 978 % ²	Male 1 082 % ²	Female 20 345 % ²	Male 24 778 % ²
f. Geometry (e.g., angles, medians, quadrilaterals)						
Very easy or easy	52%	33%	37%	46%	40%	48%
Undecided	36%	31%	35%	32%	33%	30%
Hard or very hard	12%	33%	26%	20%	26%	20%
no response	0%	2%	2%	2%	1%	1%

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Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Applied Program– By Gender

Background

Number of Respondents	School ¹		Board ¹		Province ¹	
	70		2 146		46 185	
	Female 25 % ²	Male 45 % ²	Female 978 % ²	Male 1 082 % ²	Female 20 345 % ²	Male 24 778 % ²
3a. Do you have a computer <i>at home</i> that you use for mathematics school work?						
Yes	48%	40%	34%	37%	38%	37%
No	52%	60%	63%	60%	60%	60%
no response	0%	0%	3%	4%	2%	3%
b. Do you have a scientific calculator <i>at home</i> that you use for mathematics school work?						
Yes	92%	56%	78%	71%	75%	69%
No	8%	44%	20%	25%	22%	28%
no response	0%	0%	3%	4%	2%	3%
c. Do you have a graphing calculator <i>at home</i> that you use for mathematics school work?						
Yes	8%	7%	9%	10%	6%	7%
No	92%	93%	88%	85%	91%	90%
no response	0%	0%	3%	4%	2%	3%
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.	4%	9%	17%	15%	13%	11%
I usually spend <i>between 31 and 45 minutes</i> on mathematics homework.	24%	31%	32%	23%	24%	18%
I usually spend <i>30 minutes or less</i> on mathematics homework.	60%	44%	41%	47%	45%	48%
I usually am not assigned any mathematics homework.	8%	9%	6%	9%	13%	17%
no response	4%	7%	4%	6%	5%	6%
b. How often do you complete all of your mathematics homework?						
Never or seldom	8%	16%	9%	14%	12%	17%
Sometimes	28%	27%	36%	37%	30%	31%
Often or always	56%	53%	51%	44%	53%	47%
no response	8%	4%	4%	6%	5%	6%

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Grade 9 Assessment of Mathematics, 2004–2005

Student Questionnaire: Applied Program– By Gender

Background

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	70		2 146		46 185	
	Female 25 % ²	Male 45 % ²	Female 978 % ²	Male 1 082 % ²	Female 20 345 % ²	Male 24 778 % ²
5. What languages do you speak at home?						
Only or mostly English.	72%	78%	54%	56%	79%	79%
Another language (or languages) as often as English	16%	13%	26%	24%	11%	9%
Mostly or only another language (or other languages)	8%	4%	15%	15%	5%	6%
no response	4%	4%	4%	6%	5%	6%
6. How old are you?						
13 years or younger	0%	0%	<1%	<1%	<1%	<1%
14 years	68%	67%	49%	45%	51%	47%
15 years	28%	20%	37%	38%	35%	36%
16 years or older	0%	9%	10%	11%	9%	11%
no response	4%	4%	4%	6%	5%	6%
7. How often have you been absent from your Grade 9 mathematics class this year?						
Never	12%	20%	11%	16%	8%	11%
One to four times	56%	44%	46%	40%	45%	44%
Five to nine times	20%	22%	24%	22%	25%	22%
10 or more times	8%	9%	14%	17%	18%	17%
no response	4%	4%	5%	5%	5%	6%
8. How often have you been late for your Grade 9 mathematics class this year?						
Never	36%	36%	29%	29%	28%	29%
One to four times	56%	36%	40%	36%	41%	38%
Five to nine times	4%	11%	14%	16%	14%	14%
10 or more times	0%	13%	13%	13%	12%	13%
no response	4%	4%	4%	5%	5%	6%

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Student Questionnaire: Applied Program– By Gender

Background

<i>Number of Respondents</i>	School ¹		Board ¹		Province ¹	
	70		2 146		46 185	
	Female 25 % ²	Male 45 % ²	Female 978 % ²	Male 1 082 % ²	Female 20 345 % ²	Male 24 778 % ²
9. How many elementary schools (kindergarten to Grade 8) did you attend?						
One school	32%	29%	30%	34%	23%	25%
Two schools	32%	31%	33%	32%	31%	30%
Three schools	4%	20%	15%	16%	19%	18%
Four schools	24%	4%	9%	6%	10%	10%
Five schools or more	4%	11%	7%	6%	12%	11%
no response	4%	4%	5%	6%	5%	6%

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