

## Student Questionnaire: Applied Program–All Students School Results

School: Cardinal Newman HS (694193)

Board: Toronto Catholic District School Board (67059)

### Attitudes Toward Mathematics

Number of Respondents	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	#	% <sup>2</sup>	#	% <sup>2</sup>	#	% <sup>2</sup>
	84		1 956		42 804	
<b>1. Indicate the degree to which you agree or disagree with each of the following statements.</b>						
<b>a. I like mathematics.</b>						
Strongly agree or agree	27	32%	715	37%	14 741	34%
Undecided	21	25%	535	27%	11 898	28%
Disagree or strongly disagree	36	43%	696	36%	16 003	37%
no response/ambiguous response	0	0%	10	1%	162	<1%
<b>b. I am good at mathematics.</b>						
Strongly agree or agree	29	35%	588	30%	14 399	34%
Undecided	25	30%	743	38%	14 833	35%
Disagree or strongly disagree	30	36%	611	31%	13 331	31%
no response/ambiguous response	0	0%	14	1%	241	1%
<b>c. I understand most of the mathematics I am taught.</b>						
Strongly agree or agree	49	58%	1 184	61%	26 300	61%
Undecided	26	31%	516	26%	10 509	25%
Disagree or strongly disagree	9	11%	239	12%	5 715	13%
no response/ambiguous response	0	0%	17	1%	280	1%
<b>d. The mathematics I learn now is very useful for everyday life.</b>						
Strongly agree or agree	39	46%	947	48%	16 942	40%
Undecided	21	25%	571	29%	13 501	32%
Disagree or strongly disagree	24	29%	418	21%	12 057	28%
no response/ambiguous response	0	0%	20	1%	304	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, 2006–2007

## Student Questionnaire: Applied Program–All Students

### Attitudes Toward Mathematics

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	84		1 956		42 804	
	#	% <sup>2</sup>	#	% <sup>2</sup>	#	% <sup>2</sup>
<b>e. I need to keep taking mathematics for the kind of job I want after I leave school.</b>						
Strongly agree <b>or</b> agree	39	46%	865	44%	18 328	43%
Undecided	26	31%	649	33%	14 484	34%
Disagree <b>or</b> strongly disagree	19	23%	420	21%	9 687	23%
no response/ambiguous response	0	0%	22	1%	305	1%
<b>f. Mathematics is boring.</b>						
Strongly agree <b>or</b> agree	37	44%	695	36%	18 231	43%
Undecided	25	30%	555	28%	11 198	26%
Disagree <b>or</b> strongly disagree	22	26%	676	35%	12 958	30%
no response/ambiguous response	0	0%	30	2%	417	1%
<b>g. Mathematics is an easy subject.</b>						
Strongly agree <b>or</b> agree	15	18%	342	17%	9 251	22%
Undecided	21	25%	580	30%	12 717	30%
Disagree <b>or</b> strongly disagree	48	57%	1 010	52%	20 458	48%
no response/ambiguous response	0	0%	24	1%	378	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, 2006–2007

## Student Questionnaire: Applied Program–All Students

### Attitudes Toward Mathematics

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	84		1 956		42 804	
	#	% <sup>2</sup>	#	% <sup>2</sup>	#	% <sup>2</sup>
<b>2. Indicate how easy or hard you find mathematics questions that deal with the following.</b>						
<b>a. Number sense (e.g., operations with integers, rational numbers, exponents)</b>						
Very easy or easy	35	42%	957	49%	19 826	46%
Undecided	30	36%	617	32%	14 121	33%
Hard or very hard	19	23%	350	18%	8 367	20%
no response/ambiguous response	0	0%	32	2%	490	1%
<b>b. Algebra (e.g., solving equations, simplifying expressions with polynomials)</b>						
Very easy or easy	37	44%	798	41%	18 119	42%
Undecided	24	29%	569	29%	11 696	27%
Hard or very hard	23	27%	555	28%	12 526	29%
no response/ambiguous response	0	0%	34	2%	463	1%
<b>c. Linear relations (e.g., scatter plots, lines of best fit)</b>						
Very easy or easy	57	68%	1 196	61%	25 907	61%
Undecided	25	30%	476	24%	10 403	24%
Hard or very hard	2	2%	249	13%	5 977	14%
no response/ambiguous response	0	0%	35	2%	517	1%
<b>d. Measurement (e.g., perimeter, area, volume)</b>						
Very easy or easy	51	61%	1 200	61%	27 490	64%
Undecided	12	14%	448	23%	9 307	22%
Hard or very hard	21	25%	270	14%	5 421	13%
no response/ambiguous response	0	0%	38	2%	586	1%
<b>e. Geometry (e.g., angles, parallel lines, quadrilaterals)</b>						
Very easy or easy	25	30%	733	37%	17 887	42%
Undecided	29	35%	663	34%	13 608	32%
Hard or very hard	29	35%	519	27%	10 733	25%
no response/ambiguous response	1	1%	41	2%	576	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, 2006–2007

## Student Questionnaire: Applied Program–All Students

### Background

Number of Respondents	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	#	% <sup>2</sup>	#	% <sup>2</sup>	#	% <sup>2</sup>
<b>3a. Do you have a computer <i>at home</i> that you use for mathematics school work?</b>						
Yes	38	45%	814	42%	18 064	42%
No	46	55%	1 116	57%	24 253	57%
no response/ambiguous response	0	0%	26	1%	487	1%
<b>b. Do you have a scientific calculator <i>at home</i> that you use for mathematics school work?</b>						
Yes	58	69%	1 514	77%	30 948	72%
No	26	31%	422	22%	11 372	27%
no response/ambiguous response	0	0%	20	1%	484	1%
<b>c. Do you have a graphing calculator <i>at home</i> that you use for mathematics school work?</b>						
Yes	11	13%	250	13%	3 551	8%
No	73	87%	1 675	86%	38 669	90%
no response/ambiguous response	0	0%	31	2%	584	1%
<b>4a. How much time to you <i>usually</i> spend on mathematics homework (in or out of school) on any given day?</b>						
I usually spend <i>more than 45 minutes</i> on mathematics homework.	16	19%	332	17%	5 266	12%
I usually spend <i>between 31 and 45 minutes</i> on mathematics homework.	24	29%	577	29%	9 518	22%
I usually spend <i>30 minutes or less</i> on mathematics homework.	40	48%	862	44%	19 777	46%
I am not usually assigned any mathematics homework.	4	5%	152	8%	7 534	18%
no response/ambiguous response	0	0%	33	2%	709	2%
<b>b. How often do you complete all of your mathematics homework?</b>						
Never <b>or</b> seldom	13	15%	273	14%	6 843	16%
Sometimes	30	36%	721	37%	13 239	31%
Often <b>or</b> always	41	49%	927	47%	22 057	52%
no response/ambiguous response	0	0%	35	2%	665	2%

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, 2006–2007

## Student Questionnaire: Applied Program–All Students

### Background

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	84		1 956		42 804	
	#	% <sup>2</sup>	#	% <sup>2</sup>	#	% <sup>2</sup>
<b>5. What languages do you speak at home?</b>						
Only or mostly English	69	82%	1 126	58%	34 972	82%
Another language (or languages) as often as English	13	15%	481	25%	4 482	10%
Mostly or only another language (or other languages)	2	2%	321	16%	2 714	6%
no response/ambiguous response	0	0%	28	1%	636	1%
<b>6. How old are you?</b>						
13 years or younger	2	2%	10	1%	235	1%
14 years	56	67%	1 069	55%	22 967	54%
15 years	24	29%	709	36%	15 510	36%
16 years or older	2	2%	134	7%	3 399	8%
no response/ambiguous response	0	0%	34	2%	693	2%
<b>7. How often have you been absent from your Grade 9 mathematics class this year?</b>						
Never	10	12%	301	15%	4 653	11%
One to four times	49	58%	913	47%	20 555	48%
Five to nine times	14	17%	412	21%	9 938	23%
10 or more times	11	13%	296	15%	6 942	16%
no response/ambiguous response	0	0%	34	2%	716	2%
<b>8. How often have you been late for your Grade 9 mathematics class this year?</b>						
Never	34	40%	660	34%	13 291	31%
One to four times	25	30%	701	36%	16 699	39%
Five to nine times	15	18%	268	14%	6 410	15%
10 or more times	10	12%	287	15%	5 659	13%
no response/ambiguous response	0	0%	40	2%	745	2%

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, 2006–2007

### Student Questionnaire: Applied Program–All Students

#### Background

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	84		1 956		42 804	
	#	% <sup>2</sup>	#	% <sup>2</sup>	#	% <sup>2</sup>
<b>9. How many elementary schools (kindergarten to Grade 8) did you attend?</b>						
One school	28	33%	699	36%	11 235	26%
Two schools	33	39%	653	33%	13 593	32%
Three schools	12	14%	291	15%	8 197	19%
Four schools	8	10%	145	7%	4 278	10%
Five schools or more	3	4%	124	6%	4 764	11%
no response/ambiguous response	0	0%	44	2%	737	2%

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, 2006–2007

## Student Questionnaire: Applied Program–By Gender

### Attitudes Toward Mathematics

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	84		1 956		42 804	
	Female 35 % <sup>2</sup>	Male 49 % <sup>2</sup>	Female 908 % <sup>2</sup>	Male 1 048 % <sup>2</sup>	Female 19 453 % <sup>2</sup>	Male 23 351 % <sup>2</sup>
<b>1. Indicate the degree to which you agree or disagree with each of the following statements.</b>						
<b>a. I like mathematics.</b>						
Strongly agree <b>or</b> agree	17%	43%	30%	42%	28%	40%
Undecided	26%	24%	28%	26%	28%	27%
Disagree <b>or</b> strongly disagree	57%	33%	41%	31%	43%	32%
no response/ambiguous response	0%	0%	<1%	1%	<1%	<1%
<b>b. I am good at mathematics.</b>						
Strongly agree <b>or</b> agree	29%	39%	23%	36%	25%	41%
Undecided	26%	33%	39%	37%	35%	34%
Disagree <b>or</b> strongly disagree	46%	29%	37%	27%	39%	24%
no response/ambiguous response	0%	0%	<1%	1%	<1%	1%
<b>c. I understand most of the mathematics I am taught.</b>						
Strongly agree <b>or</b> agree	51%	63%	59%	62%	57%	65%
Undecided	37%	27%	27%	26%	27%	23%
Disagree <b>or</b> strongly disagree	11%	10%	14%	11%	16%	11%
no response/ambiguous response	0%	0%	<1%	1%	1%	1%
<b>d. The mathematics I learn now is very useful for everyday life.</b>						
Strongly agree <b>or</b> agree	37%	53%	47%	50%	36%	42%
Undecided	31%	20%	32%	27%	34%	30%
Disagree <b>or</b> strongly disagree	31%	27%	21%	22%	29%	27%
no response/ambiguous response	0%	0%	1%	1%	1%	1%
<b>e. I need to keep taking mathematics for the kind of job I want after I leave school.</b>						
Strongly agree <b>or</b> agree	40%	51%	42%	46%	38%	46%
Undecided	31%	31%	33%	33%	35%	33%
Disagree <b>or</b> strongly disagree	29%	18%	24%	19%	26%	20%
no response/ambiguous response	0%	0%	1%	2%	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.

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, 2006–2007

### Student Questionnaire: Applied Program–By Gender

#### Attitudes Toward Mathematics

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	84		1 956		42 804	
	Female 35 % <sup>2</sup>	Male 49 % <sup>2</sup>	Female 908 % <sup>2</sup>	Male 1 048 % <sup>2</sup>	Female 19 453 % <sup>2</sup>	Male 23 351 % <sup>2</sup>
<b>f. Mathematics is boring.</b>						
Strongly agree <b>or</b> agree	60%	33%	37%	34%	44%	41%
Undecided	26%	33%	27%	30%	26%	26%
Disagree <b>or</b> strongly disagree	14%	35%	35%	34%	30%	31%
no response/ambiguous response	0%	0%	1%	2%	1%	1%
<b>g. Mathematics is an easy subject.</b>						
Strongly agree <b>or</b> agree	9%	24%	14%	21%	16%	26%
Undecided	23%	27%	28%	31%	28%	31%
Disagree <b>or</b> strongly disagree	69%	49%	58%	46%	55%	42%
no response/ambiguous response	0%	0%	1%	2%	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.

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, 2006–2007

## Student Questionnaire: Applied Program–By Gender

### Attitudes Toward Mathematics

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	84		1 956		42 804	
	Female 35 % <sup>2</sup>	Male 49 % <sup>2</sup>	Female 908 % <sup>2</sup>	Male 1 048 % <sup>2</sup>	Female 19 453 % <sup>2</sup>	Male 23 351 % <sup>2</sup>
<b>2. Indicate how easy or hard you find mathematics questions that deal with the following.</b>						
<b>a. Number sense (e.g., operations with integers, rational numbers, exponents)</b>						
Very easy or easy	43%	41%	47%	50%	43%	49%
Undecided	23%	45%	30%	33%	33%	33%
Hard or very hard	34%	14%	21%	16%	23%	17%
no response/ambiguous response	0%	0%	2%	2%	1%	1%
<b>b. Algebra (e.g., solving equations, simplifying expressions with polynomials)</b>						
Very easy or easy	43%	45%	41%	41%	43%	42%
Undecided	34%	24%	29%	29%	26%	29%
Hard or very hard	23%	31%	29%	28%	31%	28%
no response/ambiguous response	0%	0%	1%	2%	1%	1%
<b>c. Linear relations (e.g., scatter plots, lines of best fit)</b>						
Very easy or easy	74%	63%	61%	61%	59%	61%
Undecided	26%	33%	24%	25%	24%	24%
Hard or very hard	0%	4%	13%	12%	15%	13%
no response/ambiguous response	0%	0%	2%	2%	1%	1%
<b>d. Measurement (e.g., perimeter, area, volume)</b>						
Very easy or easy	57%	63%	61%	62%	63%	65%
Undecided	9%	18%	22%	23%	22%	21%
Hard or very hard	34%	18%	15%	13%	14%	12%
no response/ambiguous response	0%	0%	2%	2%	1%	1%
<b>e. Geometry (e.g., angles, parallel lines, quadrilaterals)</b>						
Very easy or easy	26%	33%	36%	39%	37%	46%
Undecided	37%	33%	32%	35%	32%	31%
Hard or very hard	37%	33%	30%	24%	30%	21%
no response/ambiguous response	0%	2%	2%	2%	1%	2%

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.

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, 2006–2007

## Student Questionnaire: Applied Program–By Gender

### Background

Number of Respondents	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	Female 35 % <sup>2</sup>	Male 49 % <sup>2</sup>	Female 908 % <sup>2</sup>	Male 1 048 % <sup>2</sup>	Female 19 453 % <sup>2</sup>	Male 23 351 % <sup>2</sup>
<b>3a. Do you have a computer <i>at home</i> that you use for mathematics school work?</b>						
Yes	40%	49%	43%	40%	43%	42%
No	60%	51%	55%	59%	56%	57%
no response/ambiguous response	0%	0%	2%	1%	1%	1%
<b>b. Do you have a scientific calculator <i>at home</i> that you use for mathematics school work?</b>						
Yes	69%	69%	81%	74%	76%	70%
No	31%	31%	18%	25%	23%	29%
no response/ambiguous response	0%	0%	1%	1%	1%	1%
<b>c. Do you have a graphing calculator <i>at home</i> that you use for mathematics school work?</b>						
Yes	9%	16%	12%	14%	7%	9%
No	91%	84%	87%	85%	91%	89%
no response/ambiguous response	0%	0%	2%	2%	1%	1%
<b>4a. How much time to you <i>usually</i> spend on mathematics homework (in or out of school) on any given day?</b>						
I usually spend <i>more than 45 minutes</i> on mathematics homework.	23%	16%	19%	16%	13%	11%
I usually spend <i>between 31 and 45 minutes</i> on mathematics homework.	34%	24%	34%	25%	25%	20%
I usually spend <i>30 minutes or less</i> on mathematics homework.	37%	55%	39%	48%	45%	47%
I am not usually assigned any mathematics homework.	6%	4%	7%	9%	15%	19%
no response/ambiguous response	0%	0%	1%	2%	1%	2%
<b>b. How often do you complete all of your mathematics homework?</b>						
Never <b>or</b> seldom	11%	18%	10%	17%	13%	18%
Sometimes	29%	41%	35%	38%	31%	31%
Often <b>or</b> always	60%	41%	53%	42%	55%	49%
no response/ambiguous response	0%	0%	1%	2%	1%	2%

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

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

# Grade 9 Assessment of Mathematics, 2006–2007

## Student Questionnaire: Applied Program–By Gender

### Background

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	84		1 956		42 804	
	Female 35 % <sup>2</sup>	Male 49 % <sup>2</sup>	Female 908 % <sup>2</sup>	Male 1 048 % <sup>2</sup>	Female 19 453 % <sup>2</sup>	Male 23 351 % <sup>2</sup>
<b>5. What languages do you speak at home?</b>						
Only or mostly English	77%	86%	57%	58%	82%	81%
Another language (or languages) as often as English	23%	10%	26%	23%	11%	10%
Mostly or only another language (or other languages)	0%	4%	16%	17%	5%	7%
no response/ambiguous response	0%	0%	1%	2%	1%	2%
<b>6. How old are you?</b>						
13 years or younger	0%	4%	<1%	1%	<1%	1%
14 years	77%	59%	56%	54%	56%	52%
15 years	20%	35%	36%	37%	35%	37%
16 years or older	3%	2%	7%	7%	7%	9%
no response/ambiguous response	0%	0%	1%	2%	1%	2%
<b>7. How often have you been absent from your Grade 9 mathematics class this year?</b>						
Never	9%	14%	14%	17%	9%	13%
One to four times	54%	61%	47%	46%	48%	48%
Five to nine times	14%	18%	20%	22%	24%	22%
10 or more times	23%	6%	18%	13%	17%	15%
no response/ambiguous response	0%	0%	1%	2%	2%	2%
<b>8. How often have you been late for your Grade 9 mathematics class this year?</b>						
Never	34%	45%	34%	33%	31%	31%
One to four times	29%	31%	38%	34%	40%	38%
Five to nine times	29%	10%	13%	14%	15%	15%
10 or more times	9%	14%	13%	16%	13%	14%
no response/ambiguous response	0%	0%	2%	2%	2%	2%

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## Grade 9 Assessment of Mathematics, 2006–2007

### Student Questionnaire: Applied Program–By Gender

#### Background

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	Female 35 % <sup>2</sup>	Male 49 % <sup>2</sup>	Female 908 % <sup>2</sup>	Male 1 048 % <sup>2</sup>	Female 19 453 % <sup>2</sup>	Male 23 351 % <sup>2</sup>
<b>9. How many elementary schools (kindergarten to Grade 8) did you attend?</b>						
One school	34%	33%	34%	38%	25%	27%
Two schools	37%	41%	34%	33%	32%	31%
Three schools	14%	14%	16%	14%	19%	19%
Four schools	9%	10%	8%	7%	10%	10%
Five schools or more	6%	2%	6%	6%	12%	11%
no response/ambiguous response	0%	0%	2%	3%	2%	2%

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

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.

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