



## Grade 9 Assessment of Mathematics, 2004–2005

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

**School** : Senator O'Connor College School (763772)

**Board** : Toronto Catholic District School Board (67059)

#### Attitudes Toward Mathematics

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	#	% <sup>2</sup>	#	% <sup>2</sup>	#	% <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	20	34%	721	34%	15 306	33%
Undecided	18	31%	581	27%	11 502	25%
Disagree <b>or</b> strongly disagree	20	34%	829	39%	19 187	42%
no response	0	0%	15	1%	190	<1%
<b>b. I am good at mathematics.</b>						
Strongly agree <b>or</b> agree	16	28%	589	27%	15 110	33%
Undecided	26	45%	813	38%	15 196	33%
Disagree <b>or</b> strongly disagree	16	28%	722	34%	15 593	34%
no response	0	0%	22	1%	286	1%
<b>c. I understand most of the mathematics I am taught.</b>						
Strongly agree <b>or</b> agree	39	67%	1 276	59%	27 763	60%
Undecided	15	26%	542	25%	10 902	24%
Disagree <b>or</b> strongly disagree	4	7%	305	14%	7 118	15%
no response	0	0%	23	1%	402	1%
<b>d. The mathematics I learn now is very useful for everyday life.</b>						
Strongly agree <b>or</b> agree	36	62%	1 009	47%	17 588	38%
Undecided	13	22%	602	28%	13 973	30%
Disagree <b>or</b> strongly disagree	9	16%	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 <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	58		2 146		46 185	
	#	% <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	30	52%	973	45%	19 371	42%
Undecided	11	19%	629	29%	15 755	34%
Disagree <b>or</b> strongly disagree	17	29%	515	24%	10 749	23%
no response	0	0%	29	1%	310	1%
<b>f. Mathematics is boring.</b>						
Strongly agree <b>or</b> agree	23	40%	888	41%	21 288	46%
Undecided	16	28%	572	27%	11 185	24%
Disagree <b>or</b> strongly disagree	19	33%	663	31%	13 395	29%
no response	0	0%	23	1%	317	1%
<b>g. Mathematics is an easy subject.</b>						
Strongly agree <b>or</b> agree	11	19%	343	16%	9 846	21%
Undecided	19	33%	617	29%	12 948	28%
Disagree <b>or</b> strongly disagree	28	48%	1 160	54%	23 029	50%
no response	0	0%	26	1%	362	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 <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	58		2 146		46 185	
	#	% <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	33	57%	1 029	48%	22 299	48%
Undecided	16	28%	760	35%	14 657	32%
Hard or very hard	9	16%	321	15%	8 744	19%
no response	0	0%	36	2%	485	1%
<b>b. Algebra (e.g., solving equations, simplifying expressions with polynomials)</b>						
Very easy or easy	23	40%	807	38%	18 488	40%
Undecided	22	38%	667	31%	12 843	28%
Hard or very hard	12	21%	637	30%	14 339	31%
no response	1	2%	35	2%	515	1%
<b>c. Relationships (e.g., scatter plots, lines of best fit)</b>						
Very easy or easy	32	55%	1 101	51%	25 812	56%
Undecided	21	36%	666	31%	12 303	27%
Hard or very hard	4	7%	337	16%	7 415	16%
no response	1	2%	42	2%	655	1%
<b>d. Analytic geometry (e.g., slope, y-intercept, equations of lines)</b>						
Very easy or easy	25	43%	919	43%	18 751	41%
Undecided	15	26%	596	28%	13 207	29%
Hard or very hard	17	29%	586	27%	13 432	29%
no response	1	2%	45	2%	795	2%
<b>e. Measurement (e.g., volume, perimeter, surface area)</b>						
Very easy or easy	41	71%	1 170	55%	27 850	60%
Undecided	11	19%	586	27%	10 515	23%
Hard or very hard	6	10%	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.

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 <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	58		2 146		46 185	
	#	% <sup>2</sup>	#	% <sup>2</sup>	#	% <sup>2</sup>
<b>f. Geometry (e.g., angles, medians, quadrilaterals)</b>						
Very easy <b>or</b> easy	26	45%	888	41%	20 606	45%
Undecided	21	36%	723	34%	14 523	31%
Hard <b>or</b> very hard	11	19%	490	23%	10 405	23%
no response	0	0%	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 <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	28	48%	766	36%	17 183	37%
No	29	50%	1 303	61%	27 682	60%
no response	1	2%	77	4%	1 320	3%
<b>b. Do you have a scientific calculator <i>at home</i> that you use for mathematics school work?</b>						
Yes	47	81%	1 570	73%	33 084	72%
No	10	17%	499	23%	11 780	26%
no response	1	2%	77	4%	1 321	3%
<b>c. Do you have a graphing calculator <i>at home</i> that you use for mathematics school work?</b>						
Yes	11	19%	219	10%	3 030	7%
No	46	79%	1 847	86%	41 799	91%
no response	1	2%	80	4%	1 356	3%
<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.	9	16%	339	16%	5 363	12%
I usually spend <i>between 31 and 45 minutes</i> on mathematics homework.	17	29%	575	27%	9 568	21%
I usually spend <i>30 minutes or less</i> on mathematics homework.	25	43%	952	44%	21 650	47%
I usually am not assigned any mathematics homework.	3	5%	170	8%	7 064	15%
no response	4	7%	110	5%	2 540	6%
<b>b. How often do you complete all of your mathematics homework?</b>						
Never <b>or</b> seldom	4	7%	251	12%	6 755	15%
Sometimes	14	24%	785	37%	14 106	31%
Often <b>or</b> always	36	62%	1 000	47%	22 846	49%
no response	4	7%	110	5%	2 478	5%

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

#### Background

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	58		2 146		46 185	
	#	% <sup>2</sup>	#	% <sup>2</sup>	#	% <sup>2</sup>
<b>5. What languages do you speak at home?</b>						
Only <b>or</b> mostly English.	32	55%	1 185	55%	36 433	79%
Another language (or languages) as often as English	11	19%	523	24%	4 626	10%
Mostly <b>or</b> only another language (or other languages)	11	19%	327	15%	2 686	6%
no response	4	7%	111	5%	2 440	5%
<b>6. How old are you?</b>						
13 years or younger	0	0%	3	<1%	128	<1%
14 years	25	43%	996	46%	22 348	48%
15 years	22	38%	807	38%	16 554	36%
16 years or older	7	12%	230	11%	4 681	10%
no response	4	7%	110	5%	2 474	5%
<b>7. How often have you been absent from your Grade 9 mathematics class this year?</b>						
Never	7	12%	294	14%	4 422	10%
One to four times	28	48%	916	43%	20 489	44%
Five to nine times	17	29%	494	23%	10 757	23%
10 or more times	2	3%	330	15%	7 990	17%
no response	4	7%	112	5%	2 527	5%
<b>8. How often have you been late for your Grade 9 mathematics class this year?</b>						
Never	24	41%	627	29%	13 218	29%
One to four times	24	41%	802	37%	18 074	39%
Five to nine times	4	7%	331	15%	6 545	14%
10 or more times	2	3%	276	13%	5 844	13%
no response	4	7%	110	5%	2 504	5%

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

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	58		2 146		46 185	
	#	% <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	13	22%	696	32%	11 279	24%
Two schools	23	40%	699	33%	14 073	30%
Three schools	9	16%	333	16%	8 509	18%
Four schools	2	3%	165	8%	4 537	10%
Five schools or more	7	12%	138	6%	5 214	11%
no response	4	7%	115	5%	2 573	6%

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



## Grade 9 Assessment of Mathematics, 2004–2005

### Student Questionnaire: Applied Program–By Gender School Results

**School** : Senator O'Connor College School (763772)

**Board** : Toronto Catholic District School Board (67059)

#### Attitudes Toward Mathematics

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	58		2 146		46 185	
	Female 26 % <sup>2</sup>	Male 32 % <sup>2</sup>	Female 978 % <sup>2</sup>	Male 1 082 % <sup>2</sup>	Female 20 345 % <sup>2</sup>	Male 24 778 % <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	19%	47%	28%	39%	29%	37%
Undecided	31%	31%	28%	27%	25%	25%
Disagree <b>or</b> strongly disagree	50%	22%	44%	33%	46%	38%
no response	0%	0%	1%	1%	<1%	<1%
<b>b. I am good at mathematics.</b>						
Strongly agree <b>or</b> agree	19%	34%	20%	34%	25%	39%
Undecided	42%	47%	38%	38%	33%	32%
Disagree <b>or</b> strongly disagree	38%	19%	41%	27%	41%	28%
no 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	65%	69%	57%	62%	56%	64%
Undecided	27%	25%	26%	24%	26%	22%
Disagree <b>or</b> strongly disagree	8%	6%	16%	13%	18%	13%
no 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	58%	66%	46%	48%	35%	40%
Undecided	31%	16%	30%	27%	32%	29%
Disagree <b>or</b> strongly disagree	12%	19%	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 <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	58		2 146		46 185	
	Female 26 % <sup>2</sup>	Male 32 % <sup>2</sup>	Female 978 % <sup>2</sup>	Male 1 082 % <sup>2</sup>	Female 20 345 % <sup>2</sup>	Male 24 778 % <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	38%	62%	43%	48%	38%	45%
Undecided	23%	16%	30%	29%	36%	32%
Disagree <b>or</b> strongly disagree	38%	22%	26%	22%	26%	21%
no response	0%	0%	1%	1%	1%	1%
<b>f. Mathematics is boring.</b>						
Strongly agree <b>or</b> agree	46%	34%	41%	41%	46%	46%
Undecided	23%	31%	28%	26%	24%	24%
Disagree <b>or</b> strongly disagree	31%	34%	30%	32%	29%	29%
no response	0%	0%	1%	1%	1%	1%
<b>g. Mathematics is an easy subject.</b>						
Strongly agree <b>or</b> agree	15%	22%	13%	18%	16%	26%
Undecided	35%	31%	25%	32%	26%	30%
Disagree <b>or</b> strongly disagree	50%	47%	61%	48%	57%	44%
no response	0%	0%	1%	1%	1%	1%

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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 <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	58		2 146		46 185	
	Female 26 % <sup>2</sup>	Male 32 % <sup>2</sup>	Female 978 % <sup>2</sup>	Male 1 082 % <sup>2</sup>	Female 20 345 % <sup>2</sup>	Male 24 778 % <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	54%	59%	45%	51%	45%	51%
Undecided	23%	31%	36%	34%	32%	31%
Hard or very hard	23%	9%	17%	13%	21%	17%
no response	0%	0%	2%	2%	1%	1%
<b>b. Algebra (e.g., solving equations, simplifying expressions with polynomials)</b>						
Very easy or easy	27%	50%	38%	38%	40%	40%
Undecided	46%	31%	29%	33%	27%	29%
Hard or very hard	27%	16%	31%	28%	33%	30%
no response	0%	3%	1%	2%	1%	1%
<b>c. Relationships (e.g., scatter plots, lines of best fit)</b>						
Very easy or easy	50%	59%	51%	52%	56%	56%
Undecided	42%	31%	30%	32%	26%	27%
Hard or very hard	8%	6%	17%	14%	17%	15%
no response	0%	3%	2%	2%	1%	2%
<b>d. Analytic geometry (e.g., slope, y-intercept, equations of lines)</b>						
Very easy or easy	31%	53%	43%	43%	39%	42%
Undecided	35%	19%	27%	28%	28%	29%
Hard or very hard	35%	25%	28%	27%	32%	27%
no response	0%	3%	2%	2%	2%	2%
<b>e. Measurement (e.g., volume, perimeter, surface area)</b>						
Very easy or easy	73%	69%	54%	56%	58%	62%
Undecided	15%	22%	27%	27%	24%	22%
Hard or very hard	12%	9%	17%	15%	17%	14%
no response	0%	0%	2%	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.

## Grade 9 Assessment of Mathematics, 2004–2005

### 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>	
	58		2 146		46 185	
	Female 26 % <sup>2</sup>	Male 32 % <sup>2</sup>	Female 978 % <sup>2</sup>	Male 1 082 % <sup>2</sup>	Female 20 345 % <sup>2</sup>	Male 24 778 % <sup>2</sup>
<b>f. Geometry (e.g., angles, medians, quadrilaterals)</b>						
Very easy <b>or</b> easy	31%	56%	37%	46%	40%	48%
Undecided	42%	31%	35%	32%	33%	30%
Hard <b>or</b> very hard	27%	12%	26%	20%	26%	20%
no response	0%	0%	2%	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.

## Grade 9 Assessment of Mathematics, 2004–2005

### Student Questionnaire: Applied Program– By Gender

#### Background

Number of Respondents	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	Female 26 % <sup>2</sup>	Male 32 % <sup>2</sup>	Female 978 % <sup>2</sup>	Male 1 082 % <sup>2</sup>	Female 20 345 % <sup>2</sup>	Male 24 778 % <sup>2</sup>
<b>3a. Do you have a computer <i>at home</i> that you use for mathematics school work?</b>						
Yes	46%	50%	34%	37%	38%	37%
No	50%	50%	63%	60%	60%	60%
no response	4%	0%	3%	4%	2%	3%
<b>b. Do you have a scientific calculator <i>at home</i> that you use for mathematics school work?</b>						
Yes	77%	84%	78%	71%	75%	69%
No	19%	16%	20%	25%	22%	28%
no response	4%	0%	3%	4%	2%	3%
<b>c. Do you have a graphing calculator <i>at home</i> that you use for mathematics school work?</b>						
Yes	15%	22%	9%	10%	6%	7%
No	81%	78%	88%	85%	91%	90%
no response	4%	0%	3%	4%	2%	3%
<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.	4%	25%	17%	15%	13%	11%
I usually spend <i>between 31 and 45 minutes</i> on mathematics homework.	27%	31%	32%	23%	24%	18%
I usually spend <i>30 minutes or less</i> on mathematics homework.	54%	34%	41%	47%	45%	48%
I usually am not assigned any mathematics homework.	8%	3%	6%	9%	13%	17%
no response	8%	6%	4%	6%	5%	6%
<b>b. How often do you complete all of your mathematics homework?</b>						
Never <b>or</b> seldom	8%	6%	9%	14%	12%	17%
Sometimes	31%	19%	36%	37%	30%	31%
Often <b>or</b> always	54%	69%	51%	44%	53%	47%
no response	8%	6%	4%	6%	5%	6%

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

#### Background

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	58		2 146		46 185	
	Female 26 % <sup>2</sup>	Male 32 % <sup>2</sup>	Female 978 % <sup>2</sup>	Male 1 082 % <sup>2</sup>	Female 20 345 % <sup>2</sup>	Male 24 778 % <sup>2</sup>
<b>5. What languages do you speak at home?</b>						
Only or mostly English.	62%	50%	54%	56%	79%	79%
Another language (or languages) as often as English	15%	22%	26%	24%	11%	9%
Mostly or only another language (or other languages)	15%	22%	15%	15%	5%	6%
no response	8%	6%	4%	6%	5%	6%
<b>6. How old are you?</b>						
13 years or younger	0%	0%	<1%	<1%	<1%	<1%
14 years	42%	44%	49%	45%	51%	47%
15 years	42%	34%	37%	38%	35%	36%
16 years or older	8%	16%	10%	11%	9%	11%
no response	8%	6%	4%	6%	5%	6%
<b>7. How often have you been absent from your Grade 9 mathematics class this year?</b>						
Never	19%	6%	11%	16%	8%	11%
One to four times	46%	50%	46%	40%	45%	44%
Five to nine times	19%	38%	24%	22%	25%	22%
10 or more times	8%	0%	14%	17%	18%	17%
no response	8%	6%	5%	5%	5%	6%
<b>8. How often have you been late for your Grade 9 mathematics class this year?</b>						
Never	31%	50%	29%	29%	28%	29%
One to four times	50%	34%	40%	36%	41%	38%
Five to nine times	8%	6%	14%	16%	14%	14%
10 or more times	4%	3%	13%	13%	12%	13%
no response	8%	6%	4%	5%	5%	6%

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

## Grade 9 Assessment of Mathematics, 2004–2005

### Student Questionnaire: Applied Program– By Gender

#### Background

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	58		2 146		46 185	
	Female 26 % <sup>2</sup>	Male 32 % <sup>2</sup>	Female 978 % <sup>2</sup>	Male 1 082 % <sup>2</sup>	Female 20 345 % <sup>2</sup>	Male 24 778 % <sup>2</sup>
<b>9. How many elementary schools (kindergarten to Grade 8) did you attend?</b>						
One school	23%	22%	30%	34%	23%	25%
Two schools	35%	44%	33%	32%	31%	30%
Three schools	23%	9%	15%	16%	19%	18%
Four schools	4%	3%	9%	6%	10%	10%
Five schools or more	8%	16%	7%	6%	12%	11%
no response	8%	6%	5%	6%	5%	6%

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.