



Education  
Quality and  
Accountability  
Office

## Grade 9 Assessment of Mathematics, 2004–2005

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

**School** : Mary Ward Catholic SS (730882)

**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	27	30%	721	34%	15 306	33%
Undecided	19	21%	581	27%	11 502	25%
Disagree <b>or</b> strongly disagree	45	49%	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	18	20%	589	27%	15 110	33%
Undecided	35	38%	813	38%	15 196	33%
Disagree <b>or</b> strongly disagree	38	42%	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	49	54%	1 276	59%	27 763	60%
Undecided	33	36%	542	25%	10 902	24%
Disagree <b>or</b> strongly disagree	8	9%	305	14%	7 118	15%
no response	1	1%	23	1%	402	1%
<b>d. The mathematics I learn now is very useful for everyday life.</b>						
Strongly agree <b>or</b> agree	42	46%	1 009	47%	17 588	38%
Undecided	28	31%	602	28%	13 973	30%
Disagree <b>or</b> strongly disagree	20	22%	513	24%	14 245	31%
no response	1	1%	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>	
	91		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	45	49%	973	45%	19 371	42%
Undecided	22	24%	629	29%	15 755	34%
Disagree <b>or</b> strongly disagree	24	26%	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	44	48%	888	41%	21 288	46%
Undecided	22	24%	572	27%	11 185	24%
Disagree <b>or</b> strongly disagree	25	27%	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	10	11%	343	16%	9 846	21%
Undecided	31	34%	617	29%	12 948	28%
Disagree <b>or</b> strongly disagree	49	54%	1 160	54%	23 029	50%
no response	1	1%	26	1%	362	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>	
	91		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	34	37%	1 029	48%	22 299	48%
Undecided	39	43%	760	35%	14 657	32%
Hard or very hard	18	20%	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	26	29%	807	38%	18 488	40%
Undecided	34	37%	667	31%	12 843	28%
Hard or very hard	31	34%	637	30%	14 339	31%
no response	0	0%	35	2%	515	1%
<b>c. Relationships (e.g., scatter plots, lines of best fit)</b>						
Very easy or easy	49	54%	1 101	51%	25 812	56%
Undecided	19	21%	666	31%	12 303	27%
Hard or very hard	21	23%	337	16%	7 415	16%
no response	2	2%	42	2%	655	1%
<b>d. Analytic geometry (e.g., slope, y-intercept, equations of lines)</b>						
Very easy or easy	23	25%	919	43%	18 751	41%
Undecided	35	38%	596	28%	13 207	29%
Hard or very hard	33	36%	586	27%	13 432	29%
no response	0	0%	45	2%	795	2%
<b>e. Measurement (e.g., volume, perimeter, surface area)</b>						
Very easy or easy	61	67%	1 170	55%	27 850	60%
Undecided	17	19%	586	27%	10 515	23%
Hard or very hard	13	14%	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>	
	91		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	50	55%	888	41%	20 606	45%
Undecided	28	31%	723	34%	14 523	31%
Hard <b>or</b> very hard	13	14%	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>	
	91		2 146		46 185	
	#	% <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	30	33%	766	36%	17 183	37%
No	61	67%	1 303	61%	27 682	60%
no response	0	0%	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	61	67%	1 570	73%	33 084	72%
No	30	33%	499	23%	11 780	26%
no response	0	0%	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	24	26%	219	10%	3 030	7%
No	67	74%	1 847	86%	41 799	91%
no response	0	0%	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.	20	22%	339	16%	5 363	12%
I usually spend <i>between 31 and 45 minutes</i> on mathematics homework.	21	23%	575	27%	9 568	21%
I usually spend <i>30 minutes or less</i> on mathematics homework.	41	45%	952	44%	21 650	47%
I usually am not assigned any mathematics homework.	4	4%	170	8%	7 064	15%
no response	5	5%	110	5%	2 540	6%
<b>b. How often do you complete all of your mathematics homework?</b>						
Never <b>or</b> seldom	19	21%	251	12%	6 755	15%
Sometimes	34	37%	785	37%	14 106	31%
Often <b>or</b> always	33	36%	1 000	47%	22 846	49%
no response	5	5%	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>	
	91		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.	58	64%	1 185	55%	36 433	79%
Another language (or languages) as often as English	17	19%	523	24%	4 626	10%
Mostly <b>or</b> only another language (or other languages)	11	12%	327	15%	2 686	6%
no response	5	5%	111	5%	2 440	5%
<b>6. How old are you?</b>						
13 years or younger	0	0%	3	<1%	128	<1%
14 years	33	36%	996	46%	22 348	48%
15 years	28	31%	807	38%	16 554	36%
16 years or older	25	27%	230	11%	4 681	10%
no response	5	5%	110	5%	2 474	5%
<b>7. How often have you been absent from your Grade 9 mathematics class this year?</b>						
Never	22	24%	294	14%	4 422	10%
One to four times	28	31%	916	43%	20 489	44%
Five to nine times	18	20%	494	23%	10 757	23%
10 or more times	18	20%	330	15%	7 990	17%
no response	5	5%	112	5%	2 527	5%
<b>8. How often have you been late for your Grade 9 mathematics class this year?</b>						
Never	38	42%	627	29%	13 218	29%
One to four times	33	36%	802	37%	18 074	39%
Five to nine times	8	9%	331	15%	6 545	14%
10 or more times	7	8%	276	13%	5 844	13%
no response	5	5%	110	5%	2 504	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>	
	91		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	25	27%	696	32%	11 279	24%
Two schools	25	27%	699	33%	14 073	30%
Three schools	20	22%	333	16%	8 509	18%
Four schools	10	11%	165	8%	4 537	10%
Five schools or more	5	5%	138	6%	5 214	11%
no response	6	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** : Mary Ward Catholic SS (730882)

**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>	
	91		2 146		46 185	
	Female 37 % <sup>2</sup>	Male 33 % <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	30%	27%	28%	39%	29%	37%
Undecided	11%	24%	28%	27%	25%	25%
Disagree <b>or</b> strongly disagree	59%	48%	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	14%	18%	20%	34%	25%	39%
Undecided	30%	52%	38%	38%	33%	32%
Disagree <b>or</b> strongly disagree	57%	30%	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	43%	55%	57%	62%	56%	64%
Undecided	49%	36%	26%	24%	26%	22%
Disagree <b>or</b> strongly disagree	5%	9%	16%	13%	18%	13%
no response	3%	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	46%	39%	46%	48%	35%	40%
Undecided	30%	33%	30%	27%	32%	29%
Disagree <b>or</b> strongly disagree	24%	24%	23%	24%	31%	30%
no response	0%	3%	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>	
	91		2 146		46 185	
	Female 37 % <sup>2</sup>	Male 33 % <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	41%	55%	43%	48%	38%	45%
Undecided	30%	24%	30%	29%	36%	32%
Disagree <b>or</b> strongly disagree	30%	21%	26%	22%	26%	21%
no response	0%	0%	1%	1%	1%	1%
<b>f. Mathematics is boring.</b>						
Strongly agree <b>or</b> agree	54%	48%	41%	41%	46%	46%
Undecided	19%	27%	28%	26%	24%	24%
Disagree <b>or</b> strongly disagree	27%	24%	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	8%	12%	13%	18%	16%	26%
Undecided	24%	42%	25%	32%	26%	30%
Disagree <b>or</b> strongly disagree	68%	42%	61%	48%	57%	44%
no response	0%	3%	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>	
	91		2 146		46 185	
	Female 37 % <sup>2</sup>	Male 33 % <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	41%	36%	45%	51%	45%	51%
Undecided	38%	42%	36%	34%	32%	31%
Hard or very hard	22%	21%	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	19%	27%	38%	38%	40%	40%
Undecided	38%	39%	29%	33%	27%	29%
Hard or very hard	43%	33%	31%	28%	33%	30%
no response	0%	0%	1%	2%	1%	1%
<b>c. Relationships (e.g., scatter plots, lines of best fit)</b>						
Very easy or easy	46%	61%	51%	52%	56%	56%
Undecided	22%	24%	30%	32%	26%	27%
Hard or very hard	32%	12%	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	27%	27%	43%	43%	39%	42%
Undecided	32%	36%	27%	28%	28%	29%
Hard or very hard	41%	36%	28%	27%	32%	27%
no response	0%	0%	2%	2%	2%	2%
<b>e. Measurement (e.g., volume, perimeter, surface area)</b>						
Very easy or easy	68%	79%	54%	56%	58%	62%
Undecided	22%	12%	27%	27%	24%	22%
Hard or very hard	11%	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>	
	91		2 146		46 185	
	Female 37 % <sup>2</sup>	Male 33 % <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	54%	61%	37%	46%	40%	48%
Undecided	35%	27%	35%	32%	33%	30%
Hard <b>or</b> very hard	11%	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>	
	91		2 146		46 185	
	Female 37 % <sup>2</sup>	Male 33 % <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	32%	21%	34%	37%	38%	37%
No	68%	79%	63%	60%	60%	60%
no response	0%	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	76%	61%	78%	71%	75%	69%
No	24%	39%	20%	25%	22%	28%
no response	0%	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	19%	30%	9%	10%	6%	7%
No	81%	70%	88%	85%	91%	90%
no response	0%	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.	24%	21%	17%	15%	13%	11%
I usually spend <i>between 31 and 45 minutes</i> on mathematics homework.	22%	30%	32%	23%	24%	18%
I usually spend <i>30 minutes or less</i> on mathematics homework.	41%	42%	41%	47%	45%	48%
I usually am not assigned any mathematics homework.	8%	0%	6%	9%	13%	17%
no response	5%	6%	4%	6%	5%	6%
<b>b. How often do you complete all of your mathematics homework?</b>						
Never <b>or</b> seldom	19%	21%	9%	14%	12%	17%
Sometimes	43%	30%	36%	37%	30%	31%
Often <b>or</b> always	32%	42%	51%	44%	53%	47%
no response	5%	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.

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## 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>	
	91		2 146		46 185	
	Female 37 % <sup>2</sup>	Male 33 % <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.	54%	64%	54%	56%	79%	79%
Another language (or languages) as often as English	24%	18%	26%	24%	11%	9%
Mostly or only another language (or other languages)	16%	12%	15%	15%	5%	6%
no response	5%	6%	4%	6%	5%	6%
<b>6. How old are you?</b>						
13 years or younger	0%	0%	<1%	<1%	<1%	<1%
14 years	41%	36%	49%	45%	51%	47%
15 years	35%	21%	37%	38%	35%	36%
16 years or older	19%	36%	10%	11%	9%	11%
no response	5%	6%	4%	6%	5%	6%
<b>7. How often have you been absent from your Grade 9 mathematics class this year?</b>						
Never	30%	21%	11%	16%	8%	11%
One to four times	41%	21%	46%	40%	45%	44%
Five to nine times	11%	27%	24%	22%	25%	22%
10 or more times	14%	24%	14%	17%	18%	17%
no response	5%	6%	5%	5%	5%	6%
<b>8. How often have you been late for your Grade 9 mathematics class this year?</b>						
Never	38%	39%	29%	29%	28%	29%
One to four times	46%	30%	40%	36%	41%	38%
Five to nine times	5%	15%	14%	16%	14%	14%
10 or more times	5%	9%	13%	13%	12%	13%
no response	5%	6%	4%	5%	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>	
	91		2 146		46 185	
	Female 37 % <sup>2</sup>	Male 33 % <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	24%	27%	30%	34%	23%	25%
Two schools	16%	39%	33%	32%	31%	30%
Three schools	32%	9%	15%	16%	19%	18%
Four schools	16%	6%	9%	6%	10%	10%
Five schools or more	3%	12%	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.