



## Grade 9 Assessment of Mathematics, 2005-2006

### Student Questionnaire: Academic Program–All Students

#### School Results

**School** : Don Bosco Catholic SS (703184)

**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>
	131		4 482		100 790	
	#	% <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	70	53%	2 411	54%	52 708	52%
Undecided	30	23%	1 090	24%	23 222	23%
Disagree <b>or</b> strongly disagree	31	24%	932	21%	23 121	23%
no response/ambiguous response	0	0%	49	1%	1 739	2%
<b>b. I am good at mathematics.</b>						
Strongly agree <b>or</b> agree	54	41%	2 167	48%	53 189	53%
Undecided	51	39%	1 424	32%	27 690	27%
Disagree <b>or</b> strongly disagree	24	18%	835	19%	17 783	18%
no response/ambiguous response	2	2%	56	1%	2 128	2%
<b>c. I understand most of the mathematics I am taught.</b>						
Strongly agree <b>or</b> agree	86	66%	3 237	72%	73 569	73%
Undecided	27	21%	788	18%	16 043	16%
Disagree <b>or</b> strongly disagree	16	12%	385	9%	8 821	9%
no response/ambiguous response	2	2%	72	2%	2 357	2%
<b>d. The mathematics I learn now is very useful for everyday life.</b>						
Strongly agree <b>or</b> agree	52	40%	2 011	45%	39 365	39%
Undecided	51	39%	1 413	32%	32 322	32%
Disagree <b>or</b> strongly disagree	26	20%	985	22%	26 645	26%
no response/ambiguous response	2	2%	73	2%	2 458	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.

Note: N/R "Not reported" indicates that the number of respondents who completed a questionnaire is so small (fewer than six) that identification of individual results might be possible; results are not reported.

## Grade 9 Assessment of Mathematics, 2005-2006

### Student Questionnaire: Academic Program–All Students

#### Attitudes Toward Mathematics

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	131		4 482		100 790	
	#	% <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 or agree	72	55%	2 516	56%	56 662	56%
Undecided	43	33%	1 337	30%	29 871	30%
Disagree or strongly disagree	14	11%	559	12%	11 910	12%
no response/ambiguous response	2	2%	70	2%	2 347	2%
<b>f. Mathematics is boring.</b>						
Strongly agree or agree	41	31%	1 198	27%	31 145	31%
Undecided	37	28%	1 291	29%	27 941	28%
Disagree or strongly disagree	51	39%	1 915	43%	39 039	39%
no response/ambiguous response	2	2%	78	2%	2 665	3%
<b>g. Mathematics is an easy subject.</b>						
Strongly agree or agree	23	18%	1 203	27%	29 338	29%
Undecided	42	32%	1 291	29%	27 373	27%
Disagree or strongly disagree	64	49%	1 914	43%	41 433	41%
no response/ambiguous response	2	2%	74	2%	2 646	3%

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## Grade 9 Assessment of Mathematics, 2005-2006

### Student Questionnaire: Academic Program–All Students

#### Attitudes Toward Mathematics

Number of Respondents	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	131		4 482		100 790	
	#	% <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	93	71%	3 086	69%	67 080	67%
Undecided	28	21%	963	21%	21 142	21%
Hard or very hard	9	7%	348	8%	9 828	10%
no response/ambiguous response	1	1%	85	2%	2 740	3%
<b>b. Algebra (e.g., solving equations, simplifying expressions with polynomials)</b>						
Very easy or easy	75	57%	2 650	59%	59 080	59%
Undecided	27	21%	993	22%	20 079	20%
Hard or very hard	27	21%	738	16%	18 402	18%
no response/ambiguous response	2	2%	101	2%	3 229	3%
<b>c. Linear relations (e.g., scatter plots, lines of best fit)</b>						
Very easy or easy	48	37%	2 248	50%	54 480	54%
Undecided	47	36%	1 324	30%	26 136	26%
Hard or very hard	33	25%	808	18%	17 031	17%
no response/ambiguous response	3	2%	102	2%	3 143	3%
<b>d. Analytic geometry (e.g., slope, y-intercept, equations of lines)</b>						
Very easy or easy	33	25%	711	16%	17 936	18%
Undecided	22	17%	384	9%	10 916	11%
Hard or very hard	22	17%	337	8%	13 158	13%
no response/ambiguous response	54	41%	3 050	68%	58 780	58%
<b>e. Measurement (e.g., perimeter, surface area, volume)</b>						
Very easy or easy	104	79%	3 400	76%	74 126	74%
Undecided	19	15%	665	15%	15 157	15%
Hard or very hard	7	5%	303	7%	7 898	8%
no response/ambiguous response	1	1%	114	3%	3 609	4%

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### Student Questionnaire: Academic Program–All Students

#### Attitudes Toward Mathematics

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	131		4 482		100 790	
	#	% <sup>2</sup>	#	% <sup>2</sup>	#	% <sup>2</sup>
<b>f. Geometry (e.g., angles, quadrilaterals)</b>						
Very easy <b>or</b> easy	92	70%	2 992	67%	65 524	65%
Undecided	24	18%	920	21%	20 403	20%
Hard <b>or</b> very hard	13	10%	464	10%	11 160	11%
no response/ambiguous response	2	2%	106	2%	3 703	4%

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## Grade 9 Assessment of Mathematics, 2005-2006

### Student Questionnaire: Academic 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>
	131		4 482		100 790	
<b>3a. Do you have a computer <i>at home</i> that you use for mathematics school work?</b>						
Yes	73	56%	2 180	49%	49 442	49%
No	54	41%	2 183	49%	47 983	48%
no response/ambiguous response	4	3%	119	3%	3 365	3%
<b>b. Do you have a scientific calculator <i>at home</i> that you use for mathematics school work?</b>						
Yes	111	85%	3 792	85%	83 903	83%
No	16	12%	554	12%	13 103	13%
no response/ambiguous response	4	3%	136	3%	3 784	4%
<b>c. Do you have a graphing calculator <i>at home</i> that you use for mathematics school work?</b>						
Yes	10	8%	682	15%	7 275	7%
No	117	89%	3 665	82%	90 084	89%
no response/ambiguous response	4	3%	135	3%	3 431	3%
<b>4a. How much time do 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.	37	28%	1 167	26%	20 726	21%
I usually spend <i>between 31 and 45 minutes</i> on mathematics homework.	50	38%	1 681	38%	35 271	35%
I usually spend <i>30 minutes or less</i> on mathematics homework.	31	24%	1 429	32%	39 033	39%
I am not usually assigned any mathematics homework.	3	2%	57	1%	2 671	3%
no response/ambiguous response	10	8%	148	3%	3 089	3%
<b>b. How often do you complete all of your mathematics homework?</b>						
Never <b>or</b> seldom	11	8%	392	9%	9 553	9%
Sometimes	30	23%	1 147	26%	22 698	23%
Often <b>or</b> always	81	62%	2 794	62%	65 337	65%
no response/ambiguous response	9	7%	149	3%	3 202	3%

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#### Background

Number of Respondents	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
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	#	% <sup>2</sup>	#	% <sup>2</sup>	#	% <sup>2</sup>
<b>5. What languages do you speak at home?</b>						
Only or mostly English	71	54%	2 736	61%	76 254	76%
Another language (or languages) as often as English	28	21%	1 025	23%	13 108	13%
Mostly or only another language (or other languages)	23	18%	573	13%	8 301	8%
no response/ambiguous response	9	7%	148	3%	3 127	3%
<b>6. How old are you?</b>						
13 years or younger	0	0%	24	1%	613	1%
14 years	99	76%	2 806	63%	64 811	64%
15 years	22	17%	1 457	33%	31 134	31%
16 years or older	1	1%	46	1%	1 060	1%
no response/ambiguous response	9	7%	149	3%	3 172	3%
<b>7. How often have you been absent from your Grade 9 mathematics class this year?</b>						
Never	31	24%	787	18%	12 613	13%
One to four times	66	50%	2 527	56%	57 631	57%
Five to nine times	17	13%	682	15%	19 515	19%
10 or more times	8	6%	339	8%	7 764	8%
no response/ambiguous response	9	7%	147	3%	3 267	3%
<b>8. How often have you been late for your Grade 9 mathematics class this year?</b>						
Never	58	44%	2 094	47%	45 916	46%
One to four times	49	37%	1 628	36%	38 212	38%
Five to nine times	11	8%	384	9%	8 247	8%
10 or more times	3	2%	230	5%	5 150	5%
no response/ambiguous response	10	8%	146	3%	3 265	3%

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### Student Questionnaire: Academic Program–All Students

#### Background

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	131		4 482		100 790	
	#	% <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	48	37%	1 770	39%	26 933	27%
Two schools	39	30%	1 441	32%	34 936	35%
Three schools	22	17%	643	14%	19 396	19%
Four schools	3	2%	263	6%	8 744	9%
Five schools or more	9	7%	218	5%	7 496	7%
no response/ambiguous response	10	8%	147	3%	3 285	3%

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## Grade 9 Assessment of Mathematics, 2005-2006

### Student Questionnaire: Academic Program– By Gender

#### School Results

**School** : Don Bosco Catholic SS (703184)

**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>	
	131		4 482		100 790	
	Female 68 % <sup>2</sup>	Male 63 % <sup>2</sup>	Female 2 355 % <sup>2</sup>	Male 2 127 % <sup>2</sup>	Female 51 902 % <sup>2</sup>	Male 48 888 % <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 or agree	49%	59%	49%	59%	48%	57%
Undecided	21%	25%	27%	22%	25%	21%
Disagree or strongly disagree	31%	16%	24%	18%	26%	20%
no response/ambiguous response	0%	0%	1%	2%	2%	2%
<b>b. I am good at mathematics.</b>						
Strongly agree or agree	32%	51%	42%	56%	47%	59%
Undecided	44%	33%	35%	28%	30%	25%
Disagree or strongly disagree	24%	13%	23%	14%	22%	13%
no response/ambiguous response	0%	3%	1%	2%	2%	2%
<b>c. I understand most of the mathematics I am taught.</b>						
Strongly agree or agree	63%	68%	70%	75%	70%	76%
Undecided	22%	19%	20%	15%	17%	14%
Disagree or strongly disagree	15%	10%	9%	8%	10%	7%
no response/ambiguous response	0%	3%	1%	2%	2%	2%
<b>d. The mathematics I learn now is very useful for everyday life.</b>						
Strongly agree or agree	46%	33%	43%	47%	36%	42%
Undecided	37%	41%	33%	30%	35%	29%
Disagree or strongly disagree	18%	22%	23%	21%	27%	26%
no response/ambiguous response	0%	3%	1%	2%	2%	3%

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## Grade 9 Assessment of Mathematics, 2005-2006

### Student Questionnaire: Academic Program– By Gender

#### Attitudes Toward Mathematics

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	Female 68 % <sup>2</sup>	Male 63 % <sup>2</sup>	Female 2 355 % <sup>2</sup>	Male 2 127 % <sup>2</sup>	Female 51 902 % <sup>2</sup>	Male 48 888 % <sup>2</sup>
	131		4 482		100 790	
<b>e. I need to keep taking mathematics for the kind of job I want after I leave school.</b>						
Strongly agree or agree	54%	56%	53%	59%	54%	59%
Undecided	35%	30%	31%	29%	31%	28%
Disagree or strongly disagree	10%	11%	14%	10%	13%	11%
no response/ambiguous response	0%	3%	1%	2%	2%	2%
<b>f. Mathematics is boring.</b>						
Strongly agree or agree	35%	27%	26%	27%	31%	31%
Undecided	19%	38%	28%	29%	28%	27%
Disagree or strongly disagree	46%	32%	44%	41%	39%	39%
no response/ambiguous response	0%	3%	1%	2%	3%	3%
<b>g. Mathematics is an easy subject.</b>						
Strongly agree or agree	15%	21%	22%	32%	24%	34%
Undecided	34%	30%	29%	28%	27%	27%
Disagree or strongly disagree	51%	46%	47%	37%	46%	36%
no response/ambiguous response	0%	3%	1%	2%	3%	3%

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## Grade 9 Assessment of Mathematics, 2005-2006

### Student Questionnaire: Academic Program– By Gender

#### Attitudes Toward Mathematics

Number of Respondents	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	Female 68 % <sup>2</sup>	Male 63 % <sup>2</sup>	Female 2 355 % <sup>2</sup>	Male 2 127 % <sup>2</sup>	Female 51 902 % <sup>2</sup>	Male 48 888 % <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	69%	73%	66%	72%	63%	71%
Undecided	22%	21%	23%	20%	23%	19%
Hard or very hard	9%	5%	9%	6%	12%	8%
no response/ambiguous response	0%	2%	1%	2%	3%	3%
<b>b. Algebra (e.g., solving equations, simplifying expressions with polynomials)</b>						
Very easy or easy	59%	56%	62%	56%	59%	58%
Undecided	19%	22%	22%	23%	20%	20%
Hard or very hard	22%	19%	15%	18%	18%	18%
no response/ambiguous response	0%	3%	2%	3%	3%	3%
<b>c. Linear relations (e.g., scatter plots, lines of best fit)</b>						
Very easy or easy	31%	43%	48%	53%	52%	57%
Undecided	46%	25%	31%	27%	27%	25%
Hard or very hard	24%	27%	19%	17%	18%	15%
no response/ambiguous response	0%	5%	2%	3%	3%	3%
<b>d. Analytic geometry (e.g., slope, y-intercept, equations of lines)</b>						
Very easy or easy	19%	32%	14%	18%	16%	19%
Undecided	22%	11%	8%	9%	11%	11%
Hard or very hard	19%	14%	9%	6%	14%	12%
no response/ambiguous response	40%	43%	69%	67%	58%	58%
<b>e. Measurement (e.g., perimeter, surface area, volume)</b>						
Very easy or easy	84%	75%	74%	78%	71%	76%
Undecided	7%	22%	16%	14%	16%	14%
Hard or very hard	9%	2%	9%	5%	9%	7%
no response/ambiguous response	0%	2%	2%	3%	3%	4%

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#### Attitudes Toward Mathematics

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	Female 68 % <sup>2</sup>	Male 63 % <sup>2</sup>	Female 2 355 % <sup>2</sup>	Male 2 127 % <sup>2</sup>	Female 51 902 % <sup>2</sup>	Male 48 888 % <sup>2</sup>
	131		4 482		100 790	
<b>f. Geometry (e.g., angles, quadrilaterals)</b>						
Very easy <b>or</b> easy	74%	67%	65%	69%	62%	68%
Undecided	15%	22%	21%	21%	22%	19%
Hard <b>or</b> very hard	10%	10%	13%	8%	13%	10%
no response/ambiguous response	1%	2%	2%	3%	3%	4%

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#### Background

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	131		4 482		100 790	
<b>3a. Do you have a computer <i>at home</i> that you use for mathematics school work?</b>						
Yes	62%	49%	50%	47%	50%	48%
No	34%	49%	47%	50%	47%	49%
no response/ambiguous response	4%	2%	2%	3%	3%	4%
<b>b. Do you have a scientific calculator <i>at home</i> that you use for mathematics school work?</b>						
Yes	88%	81%	88%	81%	85%	81%
No	7%	17%	10%	15%	11%	15%
no response/ambiguous response	4%	2%	3%	3%	3%	4%
<b>c. Do you have a graphing calculator <i>at home</i> that you use for mathematics school work?</b>						
Yes	4%	11%	16%	14%	7%	8%
No	91%	87%	81%	83%	90%	88%
no response/ambiguous response	4%	2%	3%	4%	3%	4%
<b>4a. How much time do 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.	34%	22%	30%	22%	24%	17%
I usually spend <i>between 31 and 45 minutes</i> on mathematics homework.	46%	30%	41%	34%	38%	31%
I usually spend <i>30 minutes or less</i> on mathematics homework.	15%	33%	26%	39%	33%	45%
I am not usually assigned any mathematics homework.	3%	2%	1%	2%	2%	4%
no response/ambiguous response	3%	13%	3%	4%	3%	3%
<b>b. How often do you complete all of your mathematics homework?</b>						
Never <b>or</b> seldom	4%	13%	7%	11%	7%	12%
Sometimes	24%	22%	23%	28%	20%	25%
Often <b>or</b> always	69%	54%	67%	57%	70%	60%
no response/ambiguous response	3%	11%	3%	3%	3%	3%

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	131		4 482		100 790	
<b>5. What languages do you speak at home?</b>						
Only or mostly English	57%	51%	62%	60%	76%	75%
Another language (or languages) as often as English	26%	16%	24%	22%	13%	13%
Mostly or only another language (or other languages)	13%	22%	12%	14%	7%	9%
no response/ambiguous response	3%	11%	3%	3%	3%	3%
<b>6. How old are you?</b>						
13 years or younger	0%	0%	1%	<1%	1%	1%
14 years	79%	71%	64%	61%	65%	63%
15 years	18%	16%	32%	34%	30%	32%
16 years or older	0%	2%	1%	1%	1%	1%
no response/ambiguous response	3%	11%	3%	3%	3%	3%
<b>7. How often have you been absent from your Grade 9 mathematics class this year?</b>						
Never	24%	24%	17%	19%	11%	14%
One to four times	51%	49%	57%	56%	58%	56%
Five to nine times	16%	10%	15%	15%	20%	18%
10 or more times	6%	6%	8%	7%	8%	8%
no response/ambiguous response	3%	11%	3%	3%	3%	3%
<b>8. How often have you been late for your Grade 9 mathematics class this year?</b>						
Never	43%	46%	50%	43%	46%	45%
One to four times	40%	35%	36%	37%	38%	38%
Five to nine times	12%	5%	7%	10%	8%	9%
10 or more times	1%	3%	4%	6%	4%	6%
no response/ambiguous response	4%	11%	3%	3%	3%	3%

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 respondents who completed a questionnaire is so small (fewer than six) that identification of individual results might be possible; results are not reported.

N/D "No data available" is used to indicate that there were no respondents in a given program for a given gender group.

## Grade 9 Assessment of Mathematics, 2005-2006

### Student Questionnaire: Academic Program– By Gender

#### Background

<i>Number of Respondents</i>	School <sup>1</sup>		Board <sup>1</sup>		Province <sup>1</sup>	
	Female 68 % <sup>2</sup>	Male 63 % <sup>2</sup>	Female 2 355 % <sup>2</sup>	Male 2 127 % <sup>2</sup>	Female 51 902 % <sup>2</sup>	Male 48 888 % <sup>2</sup>
	131		4 482		100 790	
<b>9. How many elementary schools (kindergarten to Grade 8) did you attend?</b>						
One school	37%	37%	38%	41%	27%	27%
Two schools	31%	29%	32%	32%	35%	35%
Three schools	15%	19%	14%	14%	19%	19%
Four schools	4%	0%	6%	5%	9%	9%
Five schools or more	9%	5%	5%	4%	7%	7%
no response/ambiguous response	4%	11%	3%	3%	3%	3%

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 respondents who completed a questionnaire is so small (fewer than six) that identification of individual results might be possible; results are not reported.

N/D "No data available" is used to indicate that there were no respondents in a given program for a given gender group.