

# EQAO Grade 9 Assessment of Mathematics, 2007–2008

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

School: Monsignor Percy Johnson Catholic HS (732443)

Board: Toronto Catholic District School Board (67059)

### Attitudes Toward Mathematics

Number of Respondents	School*		Board*		Province*	
	#	%†	#	%†	#	%†
<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	36	47%	2 477	56%	51 933	54%
Undecided	29	38%	1 121	25%	24 084	25%
Disagree or strongly disagree	12	16%	827	19%	20 752	21%
no response/ambiguous response	0	0%	10	<1%	291	<1%
<b>b. I am good at mathematics.</b>						
Strongly agree or agree	35	45%	2 218	50%	50 336	52%
Undecided	26	34%	1 453	33%	28 641	30%
Disagree or strongly disagree	16	21%	747	17%	17 694	18%
no response/ambiguous response	0	0%	17	<1%	389	<1%
<b>c. I understand most of the mathematics I am taught.</b>						
Strongly agree or agree	45	58%	3 254	73%	70 198	72%
Undecided	21	27%	826	19%	17 354	18%
Disagree or strongly disagree	11	14%	335	8%	9 081	9%
no response/ambiguous response	0	0%	20	<1%	427	<1%
<b>d. The mathematics I learn now is very useful for everyday life.</b>						
Strongly agree or agree	32	42%	1 834	41%	34 857	36%
Undecided	23	30%	1 406	32%	31 445	32%
Disagree or strongly disagree	22	29%	1 171	26%	30 215	31%
no response/ambiguous response	0	0%	24	1%	543	1%

\* Numbers and percentages are based on the total number of students who completed a questionnaire.

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

## Grade 9 Assessment of Mathematics, 2007–2008

### Student Questionnaire: Academic Program – All Students

#### Attitudes Toward Mathematics

<i>Number of Respondents</i>	School*		Board*		Province*	
	77		4 435		97 060	
	#	%†	#	%†	#	%†
<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	49	64%	2 492	56%	54 493	56%
Undecided	19	25%	1 330	30%	28 602	29%
Disagree <b>or</b> strongly disagree	9	12%	582	13%	13 385	14%
no response/ambiguous response	0	0%	31	1%	580	1%
<b>f. Mathematics is boring.</b>						
Strongly agree <b>or</b> agree	20	26%	1 205	27%	30 127	31%
Undecided	20	26%	1 264	29%	27 003	28%
Disagree <b>or</b> strongly disagree	37	48%	1 935	44%	39 250	40%
no response/ambiguous response	0	0%	31	1%	680	1%
<b>g. Mathematics is an easy subject.</b>						
Strongly agree <b>or</b> agree	11	14%	1 147	26%	26 296	27%
Undecided	25	32%	1 400	32%	28 105	29%
Disagree <b>or</b> strongly disagree	41	53%	1 857	42%	41 996	43%
no response/ambiguous response	0	0%	31	1%	663	1%

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## Grade 9 Assessment of Mathematics, 2007–2008

### Student Questionnaire: Academic Program – All Students

#### Attitudes Toward Mathematics

<i>Number of Respondents</i>	School*		Board*		Province*	
	77		4 435		97 060	
	#	% <sup>†</sup>	#	% <sup>†</sup>	#	% <sup>†</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	47	61%	3 006	68%	64 672	67%
Undecided	21	27%	975	22%	21 197	22%
Hard or very hard	9	12%	392	9%	10 127	10%
no response/ambiguous response	0	0%	62	1%	1 064	1%
<b>b. Algebra (e.g., solving equations, simplifying expressions with polynomials)</b>						
Very easy or easy	40	52%	2 801	63%	59 076	61%
Undecided	24	31%	881	20%	19 377	20%
Hard or very hard	11	14%	706	16%	17 631	18%
no response/ambiguous response	2	3%	47	1%	976	1%
<b>c. Linear relations (e.g., scatter plots, lines of best fit)</b>						
Very easy or easy	41	53%	2 482	56%	53 292	55%
Undecided	25	32%	1 232	28%	25 595	26%
Hard or very hard	11	14%	676	15%	17 162	18%
no response/ambiguous response	0	0%	45	1%	1 011	1%
<b>d. Analytic geometry (e.g., slope, y-intercept, equations of lines)</b>						
Very easy or easy	47	61%	2 149	48%	42 499	44%
Undecided	16	21%	1 138	26%	24 787	26%
Hard or very hard	13	17%	1 096	25%	28 688	30%
no response/ambiguous response	1	1%	52	1%	1 086	1%
<b>e. Measurement (e.g., perimeter, area, volume)</b>						
Very easy or easy	52	68%	3 395	77%	73 933	76%
Undecided	19	25%	687	15%	14 742	15%
Hard or very hard	6	8%	297	7%	7 182	7%
no response/ambiguous response	0	0%	56	1%	1 203	1%

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## Grade 9 Assessment of Mathematics, 2007–2008

### Student Questionnaire: Academic Program – All Students

#### Attitudes Toward Mathematics

<i>Number of Respondents</i>	School*		Board*		Province*	
	77		4 435		97 060	
	#	%†	#	%†	#	%†
<b>f. Geometry (e.g., angles, parallel lines, quadrilaterals)</b>						
Very easy <b>or</b> easy	29	38%	2 542	57%	59 734	62%
Undecided	33	43%	1 139	26%	22 673	23%
Hard <b>or</b> very hard	14	18%	694	16%	13 396	14%
no response/ambiguous response	1	1%	60	1%	1 257	1%

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## Grade 9 Assessment of Mathematics, 2007–2008

### Student Questionnaire: Academic Program – All Students

#### Background

Number of Respondents	School*		Board*		Province*	
	#	%†	#	%†	#	%†
<b>3a. Do you have a computer <i>at home</i> that you use for mathematics school work?</b>						
Yes	33	43%	2 271	51%	52 066	54%
No	44	57%	2 115	48%	44 138	45%
no response/ambiguous response	0	0%	49	1%	856	1%
<b>b. Do you have a scientific calculator <i>at home</i> that you use for mathematics school work?</b>						
Yes	68	88%	3 907	88%	84 030	87%
No	9	12%	481	11%	12 251	13%
no response/ambiguous response	0	0%	47	1%	779	1%
<b>c. Do you have a graphing calculator <i>at home</i> that you use for mathematics school work?</b>						
Yes	2	3%	695	16%	8 530	9%
No	75	97%	3 683	83%	87 513	90%
no response/ambiguous response	0	0%	57	1%	1 017	1%
<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.	10	13%	1 183	27%	22 240	23%
I usually spend <i>between 31 and 45 minutes</i> on mathematics homework.	37	48%	1 691	38%	35 082	36%
I usually spend <i>30 minutes or less</i> on mathematics homework.	27	35%	1 434	32%	36 184	37%
I am not usually assigned any mathematics homework.	2	3%	72	2%	2 504	3%
no response/ambiguous response	1	1%	55	1%	1 050	1%
<b>b. How often do you complete all of your mathematics homework?</b>						
Never <b>or</b> seldom	6	8%	477	11%	11 686	12%
Sometimes	27	35%	1 156	26%	22 897	24%
Often <b>or</b> always	44	57%	2 744	62%	61 317	63%
no response/ambiguous response	0	0%	58	1%	1 160	1%

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## Grade 9 Assessment of Mathematics, 2007–2008

### Student Questionnaire: Academic Program – All Students

#### Background

<i>Number of Respondents</i>	School*		Board*		Province*	
	#	%†	#	%†	#	%†
<b>5. What languages do you speak at home?</b>						
Only or mostly English	48	62%	2 794	63%	73 668	76%
Another language (or languages) as often as English	23	30%	960	22%	13 524	14%
Mostly or only another language (or other languages)	6	8%	617	14%	8 608	9%
no response/ambiguous response	0	0%	64	1%	1 260	1%
<b>6. How old are you?</b>						
13 years or younger	0	0%	28	1%	932	1%
14 years	37	48%	2 704	61%	63 423	65%
15 years	39	51%	1 595	36%	30 494	31%
16 years or older	0	0%	49	1%	1 090	1%
no response/ambiguous response	1	1%	59	1%	1 121	1%
<b>7. How often have you been absent from your Grade 9 mathematics class this year?</b>						
Never	9	12%	805	18%	14 035	14%
One to four times	40	52%	2 529	57%	57 266	59%
Five to nine times	20	26%	715	16%	17 737	18%
10 or more times	8	10%	323	7%	6 767	7%
no response/ambiguous response	0	0%	63	1%	1 255	1%
<b>8. How often have you been late for your Grade 9 mathematics class this year?</b>						
Never	24	31%	2 075	47%	44 197	46%
One to four times	30	39%	1 608	36%	37 436	39%
Five to nine times	14	18%	380	9%	8 676	9%
10 or more times	8	10%	305	7%	5 412	6%
no response/ambiguous response	1	1%	67	2%	1 339	1%

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## Grade 9 Assessment of Mathematics, 2007–2008

### Student Questionnaire: Academic Program – All Students

#### Background

<i>Number of Respondents</i>	School*		Board*		Province*	
	77		4 435		97 060	
	#	%†	#	%†	#	%†
<b>9. How many elementary schools (kindergarten to Grade 8) did you attend?</b>						
One school	27	35%	1 754	40%	27 105	28%
Two schools	29	38%	1 412	32%	34 270	35%
Three schools	11	14%	687	15%	18 558	19%
Four schools	5	6%	286	6%	8 643	9%
Five schools or more	5	6%	226	5%	7 176	7%
no response/ambiguous response	0	0%	70	2%	1 308	1%

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# Grade 9 Assessment of Mathematics, 2007–2008

## Student Questionnaire: Academic Program – By Gender

### Attitudes Toward Mathematics

Number of Respondents	School*		Board*		Province*	
	77		4 435		97 060	
	Female 37 %†	Male 40 %†	Female 2 307 %†	Male 2 128 %†	Female 49 587 %†	Male 47 469 %†
<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	54%	40%	51%	62%	48%	59%
Undecided	32%	42%	27%	23%	27%	23%
Disagree or strongly disagree	14%	18%	22%	15%	25%	18%
no response/ambiguous response	0%	0%	<1%	<1%	<1%	<1%
<b>b. I am good at mathematics.</b>						
Strongly agree or agree	46%	45%	41%	59%	45%	59%
Undecided	32%	35%	36%	29%	32%	27%
Disagree or strongly disagree	22%	20%	22%	11%	23%	13%
no response/ambiguous response	0%	0%	<1%	<1%	<1%	<1%
<b>c. I understand most of the mathematics I am taught.</b>						
Strongly agree or agree	59%	58%	70%	77%	69%	76%
Undecided	30%	25%	20%	17%	20%	16%
Disagree or strongly disagree	11%	18%	9%	6%	11%	8%
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 or agree	41%	42%	39%	44%	33%	39%
Undecided	32%	28%	32%	32%	34%	30%
Disagree or strongly disagree	27%	30%	29%	24%	32%	30%
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 or agree	65%	62%	54%	59%	54%	59%
Undecided	27%	22%	32%	28%	31%	28%
Disagree or strongly disagree	8%	15%	14%	12%	15%	12%
no response/ambiguous response	0%	0%	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.

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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, 2007–2008

### Student Questionnaire: Academic Program – By Gender

#### Attitudes Toward Mathematics

<i>Number of Respondents</i>	School*		Board*		Province*	
	Female 37 %†	Male 40 %†	Female 2 307 %†	Male 2 128 %†	Female 49 587 %†	Male 47 469 %†
<b>f. Mathematics is boring.</b>						
Strongly agree <b>or</b> agree	11%	40%	27%	28%	31%	31%
Undecided	35%	18%	29%	28%	28%	27%
Disagree <b>or</b> strongly disagree	54%	42%	44%	43%	40%	41%
no response/ambiguous response	0%	0%	1%	1%	1%	1%
<b>g. Mathematics is an easy subject.</b>						
Strongly agree <b>or</b> agree	16%	12%	20%	32%	22%	32%
Undecided	24%	40%	31%	32%	29%	29%
Disagree <b>or</b> strongly disagree	59%	48%	48%	35%	49%	37%
no response/ambiguous response	0%	0%	1%	1%	1%	1%

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# Grade 9 Assessment of Mathematics, 2007–2008

## Student Questionnaire: Academic Program – By Gender

### Attitudes Toward Mathematics

Number of Respondents	School*		Board*		Province*	
	77		4 435		97 060	
	Female 37 %†	Male 40 %†	Female 2 307 %†	Male 2 128 %†	Female 49 587 %†	Male 47 469 %†
<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%	68%	64%	72%	63%	70%
Undecided	30%	25%	24%	19%	24%	20%
Hard or very hard	16%	8%	11%	7%	12%	9%
no response/ambiguous response	0%	0%	1%	2%	1%	1%
<b>b. Algebra (e.g., solving equations, simplifying expressions with polynomials)</b>						
Very easy or easy	57%	48%	63%	63%	62%	60%
Undecided	27%	35%	19%	21%	19%	21%
Hard or very hard	14%	15%	17%	15%	18%	18%
no response/ambiguous response	3%	2%	1%	1%	1%	1%
<b>c. Linear relations (e.g., scatter plots, lines of best fit)</b>						
Very easy or easy	57%	50%	53%	59%	52%	58%
Undecided	30%	35%	29%	26%	28%	25%
Hard or very hard	14%	15%	16%	14%	20%	16%
no response/ambiguous response	0%	0%	1%	1%	1%	1%
<b>d. Analytic geometry (e.g., slope, y-intercept, equations of lines)</b>						
Very easy or easy	65%	58%	47%	50%	41%	46%
Undecided	14%	28%	26%	25%	26%	25%
Hard or very hard	19%	15%	26%	23%	32%	27%
no response/ambiguous response	3%	0%	1%	1%	1%	1%
<b>e. Measurement (e.g., perimeter, area, volume)</b>						
Very easy or easy	70%	65%	75%	78%	74%	78%
Undecided	24%	25%	17%	14%	16%	14%
Hard or very hard	5%	10%	7%	7%	8%	7%
no response/ambiguous response	0%	0%	1%	1%	1%	1%

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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, 2007–2008

### Student Questionnaire: Academic Program – By Gender

#### Attitudes Toward Mathematics

<i>Number of Respondents</i>	School*		Board*		Province*	
	Female 37 %†	Male 40 %†	Female 2 307 %†	Male 2 128 %†	Female 49 587 %†	Male 47 469 %†
<b>f. Geometry (e.g., angles, parallel lines, quadrilaterals)</b>						
Very easy <b>or</b> easy	46%	30%	54%	61%	58%	65%
Undecided	43%	42%	28%	24%	25%	22%
Hard <b>or</b> very hard	11%	25%	17%	14%	16%	12%
no response/ambiguous response	0%	2%	1%	1%	1%	1%

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## Grade 9 Assessment of Mathematics, 2007–2008

### Student Questionnaire: Academic Program – By Gender

#### Background

Number of Respondents	School*		Board*		Province*	
	77		4 435		97 060	
	Female 37 %†	Male 40 %†	Female 2 307 %†	Male 2 128 %†	Female 49 587 %†	Male 47 469 %†
<b>3a. Do you have a computer <i>at home</i> that you use for mathematics school work?</b>						
Yes	49%	38%	53%	50%	55%	52%
No	51%	62%	46%	49%	44%	47%
no response/ambiguous response	0%	0%	1%	1%	1%	1%
<b>b. Do you have a scientific calculator <i>at home</i> that you use for mathematics school work?</b>						
Yes	89%	88%	90%	86%	89%	84%
No	11%	12%	9%	13%	11%	15%
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	0%	5%	16%	16%	8%	10%
No	100%	95%	83%	83%	91%	89%
no response/ambiguous response	0%	0%	1%	1%	1%	1%
<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.	11%	15%	30%	23%	26%	19%
I usually spend <i>between 31 and 45 minutes</i> on mathematics homework.	57%	40%	42%	34%	40%	33%
I usually spend <i>30 minutes or less</i> on mathematics homework.	27%	42%	26%	39%	31%	43%
I am not usually assigned any mathematics homework.	3%	2%	1%	2%	2%	3%
no response/ambiguous response	3%	0%	1%	1%	1%	1%
<b>b. How often do you complete all of your mathematics homework?</b>						
Never <b>or</b> seldom	3%	12%	9%	13%	9%	15%
Sometimes	35%	35%	23%	29%	21%	26%
Often <b>or</b> always	62%	52%	66%	57%	69%	58%
no response/ambiguous response	0%	0%	1%	1%	1%	1%

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	77		4 435		97 060	
	Female 37 %†	Male 40 %†	Female 2 307 %†	Male 2 128 %†	Female 49 587 %†	Male 47 469 %†
<b>5. What languages do you speak at home?</b>						
Only or mostly English	68%	58%	64%	62%	77%	75%
Another language (or languages) as often as English	24%	35%	22%	21%	14%	14%
Mostly or only another language (or other languages)	8%	8%	13%	15%	8%	10%
no response/ambiguous response	0%	0%	2%	1%	1%	1%
<b>6. How old are you?</b>						
13 years or younger	0%	0%	1%	1%	1%	1%
14 years	38%	58%	61%	61%	67%	64%
15 years	59%	42%	36%	36%	31%	32%
16 years or older	0%	0%	1%	1%	1%	1%
no response/ambiguous response	3%	0%	1%	1%	1%	1%
<b>7. How often have you been absent from your Grade 9 mathematics class this year?</b>						
Never	11%	12%	17%	20%	12%	17%
One to four times	65%	40%	59%	55%	60%	58%
Five to nine times	22%	30%	16%	16%	19%	17%
10 or more times	3%	18%	7%	7%	7%	7%
no response/ambiguous response	0%	0%	2%	1%	1%	1%
<b>8. How often have you been late for your Grade 9 mathematics class this year?</b>						
Never	38%	25%	50%	43%	47%	44%
One to four times	38%	40%	36%	36%	39%	38%
Five to nine times	16%	20%	7%	10%	8%	10%
10 or more times	5%	15%	5%	9%	5%	6%
no response/ambiguous response	3%	0%	2%	1%	1%	1%

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## Grade 9 Assessment of Mathematics, 2007–2008

### Student Questionnaire: Academic Program – By Gender

#### Background

<i>Number of Respondents</i>	School*		Board*		Province*	
	77		4 435		97 060	
	Female 37 %†	Male 40 %†	Female 2 307 %†	Male 2 128 %†	Female 49 587 %†	Male 47 469 %†
<b>9. How many elementary schools (kindergarten to Grade 8) did you attend?</b>						
One school	43%	28%	39%	40%	28%	28%
Two schools	32%	42%	32%	31%	36%	35%
Three schools	11%	18%	16%	15%	19%	19%
Four schools	8%	5%	7%	6%	9%	9%
Five schools or more	5%	8%	5%	5%	7%	7%
no response/ambiguous response	0%	0%	2%	2%	1%	1%

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† 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.