

## The CENTRE for EDUCATION in MATHEMATICS and COMPUTING

## Le CENTRE d'ÉDUCATION en MATHÉMATIQUES et en INFORMATIQUE

www.cemc.uwaterloo.ca

2012 2012

Results Résultats

 $egin{array}{ll} Pascal \ Contest \ (Grade \ 9) \end{array} & egin{array}{ll} Concours \ Pascal \ (9^e \ ann\'ee \ - \ Sec. \ III) \end{array}$ 

Fermat Contest Concours Fermat

> (11<sup>e</sup> année – Sec. V) (Grade 11)











STRONGER COMMUNITIES TOGETHER™





## Centre for Education in Mathematics and Computing Faculty and Staff / Personnel du Concours canadien de mathématiques

Ed Anderson

Terry Bae

Steve Brown

Ersal Cahit

Karen Cole

Serge D'Alessio

Frank DeMaio

Jennifer Doucet

Fiona Dunbar

Mike Eden

Barry Ferguson

Barb Forrest

Judy Fox

Steve Furino

John Galbraith

Sandy Graham

Angie Hildebrand

Judith Koeller

Joanne Kursikowski

Bev Marshman

Dean Murray

Jen Nissen

J.P. Pretti

David Pritchard

Linda Schmidt

Kim Schnarr

Jim Schurter

Carolyn Sedore

Ian VanderBurgh

Troy Vasiga

#### Problems Committees / Comités des problèmes

#### Pascal Contest / Concours Pascal

Wally Webster (Chair / président), Dashwood, ON Lloyd Auckland, St. Thomas, ON Janet Christ, Walter Murray C.I., Saskatoon, SK J.P. Pretti, University of Waterloo, Waterloo, ON Jim Schurter, University of Waterloo, Waterloo, ON Tyler Somer, Kitchener, ON Anna Spanik, Halifax Regional School Board, Halifax, NS Aaron Warner, St. Mildred's-Lightbourn School, Oakville, ON

#### Cayley Contest / Concours Cayley

Jen Nissen (Chair / présidente), University of Waterloo, Waterloo, ON Jeff Anderson, Kitchener, ON Tom Barker, Stratford, ON Barry Ferguson, University of Waterloo, Waterloo, ON Steve Furino, University of Waterloo, Waterloo, ON Christopher Ing, Vincent Massey S.S., Windsor, ON Michelle Vidberg, Galt C.I., Cambridge, ON

#### Fermat Contest / Concours Fermat

Paul Fennell (Chair / président), London, ON Sandra DellaMaestra, University of Toronto Schools, Toronto, ON Steve Lau, John Diefenbaker S.S., Hanover, ON Cliff Lelievre, Oakville, ON Carol Miron, Albert Campbell C.I., Toronto, ON Dan Schnabel, Thornhill, ON David Shepherd, Ravenna, ON Foreword Avant-Propos

The Centre for Education in Mathematics and Computing is proud to once again be the major sponsor of the Canadian Mathematics Competition this year. The year 2012 marks the 50th year of Contests produced by the Canadian Mathematics Competition.

Our congratulations go to all who participated in this year's Pascal, Cayley and Fermat Contests. This year's Contests were resounding successes, with averages of 95.5, 87.8 and 87.8 across the three Contests. The number of official contestants with perfect papers on the three Contests were 18, 29 and 4.

As always, we would like to thank the hard-working Problems Committees. Most of the members of these Committees are active secondary school teachers from across Canada who volunteers their time and contribute dozens of hours of expertise. Without their intriguing and sometimes amusing problems, these Contests would not be possible.

We would also like to thank all participants, both teachers and students. We hope that the papers provided you with some interesting mathematics to think about and play with. Thank you for your support! Please continue to encourage your colleagues and fellow students to become involved in our activities.

Le Centre d'éducation en mathématiques et en informatique à encore une fois le plaisir d'être un majeur supporter du Concours canadien de mathématiques. L'année 2012 marque la 50e année de concours produit par le Concours canadien de mathématiques.

Nos félicitations vont à tous les participants du Concours Pascal, Cayley et Fermat de cette année. Les Concours de cette année retentissaient de succès, avec des moyennes de 95,5, 87,8 et 87,8 à travers les trois Concours. Le nombre de candidats officiels possédant un concours parfait était de 18, 29 et 4.

Nous aimerions surtout remercier les Comités de problèmes pour leur dur travail. La plupart des membres de ces Comités sont des enseignant(e)s d'école secondaire actifs d'un bout à l'autre du Canada qui offre leur temps et contribuent des douzaines d'heures d'expertise. Sans leurs problèmes perspicaces et amusants, ces Concours ne seraient pas possibles.

Nous aimerions remercier aussi tous les participants incluant les enseignants et les étudiants. Nous espérons que les concours vous ont offert des mathématiques intéressantes qui vous ont amusées et portées à réfléchir. Merci pour votre soutien continué!

#### Number of schools registered by province / Nombre d'écoles inscrit par province

	Pascal	Cayley	Fermat
NL	49	44	45
NS	38	27	31
NB	31	31	29
PE	6	5	5
QC	92	89	91
ON	678	660	649
MB	46	43	41
SK	24	25	25
AB	83	38	40
BC	180	170	172
NT	1	0	0
YT	1	1	1
International	104	117	104
Total	1333	1250	1233

Number of students registered by province / Nombre d'étudiants inscrit par province

	Pascal	Cayley	Fermat
NL	1012	642	556
NS	1216	603	575
NB	636	514	427
PE	128	64	95
QC	2480	2186	2111
ON	12902	11523	9610
MB	1119	909	614
SK	552	388	331
AB	2370	1017	831
BC	4666	3906	3359
International	2937	3130	2358
Total	30041	24886	20871

Total number of students enrolled / Nombre d'inscriptions individuelles: 75798

## 2012 STUDENT CHAMPIONS AND CHAMPIONSHIP TEAMS PALMARÈS INDIVIDUEL ET PALMARÈS PAR ÉQUIPE 2012

#### PASCAL CONTEST / CONCOURS PASCAL

#### STUDENTS /ÉLÈVES

Students are listed in alphabetical order / Les élèves sont nommés en ordre alphabetique

Gold Medals	old Medals School		Grade
Médailles d'or	École	Endroit	Niveau
DAVID COHN	The Country Day School	King City	9
RICHARD DU	Marc Garneau C.I.	North York	9
TOM FENG	The Woodlands School	Mississauga	9
VERNON FONG	R.C. Palmer S.S.	Richmond	9
JENNIFER GUO		North York	8
EMRE ISLAM	Campbell C.I.	Regina	9
ANDREW JIANG	Applewood Heights S.S.	Mississauga	9
JI HOON KIM	Dover Bay S.S.	Nanaimo	9
SOOBIN KIM	Port Moody Sr. S.S.	Port Moody	9
DAVID LI	Crestwood School	Edmonton	9
MOLLY LI	Don Mills C.I.	North York	9
ANDREW LIN	St. George's School	Vancouver	8
LILY LIU	Markville S.S.	Markham	9
DIMA PARAMONOV	Marc Garneau C.I.	North York	9
BEN WEI		North York	8
FERRAN XU	Walter Murray C.I.	Saskatoon	9
DAVID ZHAO	Woburn C.I	Scarborough	9
MICHAEL ZOU	Bayview S.S.	Richmond Hill	9

#### TEAMS / ÉQUIPES

	School	Location	Score
	École	Endroit	Note
Champion / Première	Marc Garneau C.I.	North York	442
Second / Deuxième	Bayview S.S.	Richmond Hill	438
	Crestwood School	Edmonton	438
	The Woodlands School	Mississauga	438
Fifth / Cinquième	St. George's School	Vancouver	436
	Walter Murray C.I.	Saskatoon	436

## 2012 STUDENT CHAMPIONS AND CHAMPIONSHIP TEAMS PALMARÈS INDIVIDUEL ET PALMARÈS PAR ÉQUIPE 2012

#### CAYLEY CONTEST / CONCOURS CAYLEY

#### STUDENTS /ÉLÈVES

 $Students\ are\ listed\ in\ alphabetical\ order\ /\ Les\ \'el\`eves\ sont\ nomm\'es\ en\ ordre\ alphabetique$ 

Gold Medals	School	Location	Grade
Médailles d'or	École	Endroit	Niveau
DAVID CHO	Nicholson Catholic College	Belleville	10
MICHAEL CHOW	Albert Campbell C.I.	Scarborough	10
JIAQI DONG	Don Mills C.I.	North York	10
GLORIA FANG	University of Toronto Schools	Toronto	9
HAOWEI GAO	Bayview S.S.	Richmond Hill	10
KAZUKI HARA	Pacific Christian School	Victoria	10
MARS HE	Richmond Hill H.S.	Richmond Hill	10
XINRUI JIA	Vincent Massey S.S.	Windsor	10
JIAHUI JIANG	Bayview S.S.	Richmond Hill	10
BILLY JIN	Waterloo C.I.	Waterloo	10
ANDREW KANG	St. Michael's University School	Victoria	10
ANDREW KIM	University of Toronto Schools	Toronto	9
JOOHYUNG KO	A.Y. Jackson S.S.	North York	10
TAEK HEE KWUN	Halifax West H.S.	Halifax	10
CATHERINE LEE	Appleby College	Oakville	10
TOM LEE	Mount Douglas S.S.	Victoria	10
BRIAN LI	Brother Andre C.H.S.	Markham	10
SHUHAO LI	University Transition Program	Vancouver	8
DANNY PARK	St. Michael's University School	Victoria	10
SANG WOO PARK	King's Christian Collegiate	Oakville	10
YEOUNSU PARK	Port Moody Sr. S.S.	Port Moody	10
QI QI	Burnaby North S.S.	Burnaby	8
DESMOND SISSON	Western Canada H.S.	Calgary	10
FEI WU	Upper Can College	Toronto	10
GLORIA WU	University of Toronto Schools	Toronto	9
ROBBIN XU	Lisgar C.I.	Ottawa	10
ANNA YE	Burnaby South S.S.	Burnaby	10
RYAN ZHU	Western Canada H.S.	Calgary	10
CHARLES ZINN	Waterloo C.I.	Waterloo	10

### TEAMS / ÉQUIPES

	School	Location	Score
	École	Endroit	Note
Champion / Première	University of Toronto Schools	Toronto	450
Second / Deuxième	Bayview S.S.	Richmond Hill	444
	St. Michael's University School	Victoria	444
	Waterloo C.I.	Waterloo	444
Fifth / Cinquième	Western Canada H.S.	Calgary	442

## 2012 STUDENT CHAMPIONS AND CHAMPIONSHIP TEAMS PALMARÈS INDIVIDUEL ET PALMARÈS PAR ÉQUIPE 2012

#### FERMAT CONTEST / CONCOURS FERMAT

#### STUDENTS /ÉLÈVES

Students are listed in alphabetical order / Les élèves sont nommés en ordre alphabetique

Gold Medals	School	Location	Grade
Médailles d'or	École	Endroit	Niveau
QINYI GENG	West Vancouver S.S.	West Vancouver	11
DONG WON KANG	North Toronto C.I.	Toronto	11
LEO LAI	Sir Winston Churchill S.S.	Vancouver	11
URSULA ANNE LIM	Burnaby North S.S.	Burnaby	11
DANIEL SPIVAK	Bayview S.S.	Richmond Hill	11

#### TEAMS / ÉQUIPES

	School	Location	Score
	École	Endroit	Note
Champion / Première	Sentinel S.S.	West Vancouver	424
Second / Deuxième	North Toronto C.I.	420	
Third / Troisième	University of Toronto Schools	Toronto	418
	Vincent Massey S.S.	Windsor	418
Fifth / Cinquième	Bayview S.S.	Richmond Hill	416
	Burnaby North S.S.	Burnaby	416
	Earl Haig S.S.	North York	416

Champions-2012

#### 2012 FERMAT CONTEST REGIONAL CHAMPIONS CHAMPIONS RÉGIONAUX AU CONCOURS FERMAT 2012

Each student below will receive a \$200 prize / Chaque étudiant ci-dessous recevrait un prix de 200 \$

Province	Student	School	Location
Province	Étudiant	École	Endroit
NL	JEREMY MANUEL	Pasadena Academy	Pasadena
NS	SAM ABERNETY	Citadel H.S.	Halifax
NB	SUBIN KIM	Kennebecasis Valley H.S.	Rothesay
NB	YUANDI ZHANG	Fredericton H.S.	Fredericton
PE	EDDIE JIANG	Colonel Gray Sr. H.S	Charlottetown
QC	ANDREI ZLOTCHEVSKI	College Jean de Brebeuf	Montreal
ON Central	DANIEL SPIVAK	Bayview S.S.	Richmond Hill
ON East	KEVIN REN	Pickering H.S.	Ajax
ON East	YUAN YAO	Colonel By S.S.	Gloucester
ON Metro	DONG WON KANG	North Toronto C.I.	Toronto
ON North	XUAN HAN	Lo-Ellen Park S.S.	Sudbury
ON West	KAI SUN		London
MB	SHUYI WU	Fort Richmond C.I.	Winnipeg
SK	QI ROGER ZHANG	Campbell C.I.	Regina
AB	YINNING XU	Henry Wise Wood Sr. H.S	Calgary
AB	YIFEI WU	Western Canada H.S.	Calgary
AB	VINSON ZHANG	Sir Winston Churchill H.S.	Calgary
AB	LINDA ZHAO	Sir Winston Churchill H.S.	Calgary
BC	URSULA ANNE LIM	Burnaby North S.S.	Burnaby
BC	QINYI GENG	West Vancouver S.S.	West Vancouver
YT	DAVID LISTER	F.H. Collins	Whitehorse

Correct Answers Bonnes Rponses

#	Pascal	Cayley	Fermat
1	D	В	В
2	$\mathbf{E}$	В	С
3	В	A	${ m E}$
4	В	D	A
5	A	E	D
6	E	С	В
7	D	E	С
8	A	A	В
9	C	В	В
10	В	С	D
11	C	A	${ m E}$
12	В	D	A
13	$\mathbf{E}$	${ m E}$	В
14	$^{\rm C}$	В	$^{\mathrm{C}}$
15	$^{\circ}$ C	D	D
16	В	В	${ m E}$
17	A	A	A
18	A	С	A
19	В	D	A
20	E	E	В
21	A	В	$\mathbf{C}$
22	C	С	A
23	В	С	A
24	D	E	В
25	D	D	A

Pascal Contest Concours Pascal

Number of Contestants / Nombre de concurrents: 22486

Average mark / Note moyenne: 95.53

#### Percentage of contestants selecting each option / Pourcentage de concurrents par choix:

	Correct						% not	% correct
	Answer/						attempted/	of attempted
	Bonne						% sans	% tentatives
	Réponse						réponse	réussies
#		A	В	С	D	E		
1	D	0.20	0.32	0.36	97.87	1.16	0.08	97.95
2	E	0.49	0.58	0.56	1.38	96.80	0.19	96.98
3	В	0.72	97.27	0.66	0.44	0.49	0.41	97.67
4	В	0.48	89.56	0.81	0.97	7.99	0.19	89.73
5	A	90.21	1.76	1.02	5.07	0.51	1.42	91.51
6	$\mathbf{E}$	4.39	0.97	0.72	2.96	89.84	1.13	90.86
7	D	0.67	0.98	9.90	87.84	0.48	0.13	87.95
8	A	88.09	7.62	1.77	0.62	1.19	0.71	88.71
9	С	4.79	2.33	76.63	3.83	6.49	5.92	81.45
10	В	25.65	57.27	8.08	3.57	1.57	3.86	59.57
11	С	0.61	0.60	95.76	0.68	1.09	1.25	96.97
12	В	2.68	83.84	2.98	4.54	3.34	2.62	86.10
13	E	11.06	2.13	5.94	14.01	55.46	11.39	62.59
14	С	11.81	20.82	47.71	7.62	4.54	7.50	51.58
15	С	6.04	4.63	72.10	5.76	2.26	9.22	79.42
16	В	3.98	77.11	5.48	7.90	3.21	2.33	78.95
17	A	63.62	11.59	9.24	2.17	1.86	11.51	71.89
18	A	36.06	5.07	19.85	6.98	7.24	24.80	47.95
19	В	5.99	41.80	20.12	5.07	1.45	25.57	56.16
20	$\mathbf{E}$	5.47	8.25	7.90	5.80	20.61	51.97	42.91
21	A	49.39	4.72	18.91	4.10	8.76	14.12	57.51
22	С	6.40	9.20	24.08	17.01	6.30	37.02	38.23
23	В	15.35	30.01	6.03	5.26	5.75	37.60	48.09
24	D	14.92	8.68	8.13	7.38	12.43	48.47	14.33
25	D	10.60	9.37	15.45	5.72	7.24	51.62	11.82

Cayley Contest Concours Cayley

Number of Contestants / Nombre de concurrents: 17298

Average mark / Note moyenne: 87.84

#### Percentage of contestants selecting each option / Pourcentage de concurrents par choix:

	Correct						% not	% correct
	Answer/						attempted/	of attempted
	Bonne						% sans	% tentatives
	Réponse						réponse	réussies
#		A	В	С	D	E		
1	В	2.21	95.47	0.42	0.11	1.66	0.13	95.59
2	В	0.89	87.90	4.48	3.41	1.97	1.35	89.11
3	A	87.66	1.72	6.34	2.01	1.59	0.68	88.26
4	D	0.47	2.90	7.46	87.90	1.08	0.19	88.07
5	${ m E}$	2.87	2.97	2.74	0.79	89.05	1.58	90.48
6	С	1.69	3.14	88.67	1.88	1.58	3.03	91.44
7	${ m E}$	1.02	1.20	2.21	1.72	92.39	1.46	93.76
8	A	89.88	2.71	0.93	1.14	1.22	4.12	93.75
9	В	39.97	39.95	11.58	3.05	2.58	2.86	41.13
10	С	8.11	23.72	44.46	14.13	5.34	4.24	46.42
11	A	79.97	0.80	1.47	15.13	2.36	0.26	80.18
12	D	2.11	5.71	6.26	62.87	3.29	19.77	78.36
13	E	3.49	10.61	16.23	4.73	54.05	10.88	60.65
14	В	3.67	62.65	11.98	12.98	1.61	7.11	67.44
15	D	5.71	9.33	5.63	56.57	6.33	16.44	67.69
16	В	3.01	52.71	6.79	4.53	1.40	31.57	77.02
17	A	55.79	3.27	18.41	2.84	8.23	11.46	63.02
18	С	3.46	5.75	43.04	9.48	5.34	32.93	64.17
19	D	6.27	10.05	7.78	31.18	5.01	39.70	51.71
20	E	7.89	5.27	7.68	12.68	19.34	47.13	36.59
21	В	4.61	33.70	6.10	5.18	2.97	47.44	64.12
22	С	14.28	5.09	12.03	18.95	16.74	32.91	17.93
23	С	6.83	10.23	26.90	4.94	5.47	45.64	49.48
24	E	3.84	30.18	6.29	8.17	6.09	45.42	11.16
25	D	4.99	8.00	7.63	12.64	6.81	59.92	31.54

Fermat Contest Concours Fermat

Number of Contestants / Nombre de concurrents: 14663

Average mark / Note moyenne: 87.81

#### Percentage of contestants selecting each option / Pourcentage de concurrents par choix:

	Correct						% not	% correct
	Answer/						attempted/	of attempted
	Bonne						% sans	% tentatives
	Réponse						réponse	réussies
#	_	A	В	С	D	E	_	
1	В	0.64	98.48	0.43	0.19	0.18	0.08	98.55
2	С	1.40	4.81	91.22	0.75	1.77	0.06	91.27
3	E	0.63	0.76	0.85	0.71	96.33	0.72	97.03
4	A	86.19	0.47	0.93	11.44	0.16	0.81	86.89
5	D	2.70	0.86	3.66	89.23	0.62	2.93	91.93
6	В	3.58	85.43	2.47	3.67	1.10	3.75	88.76
7	С	2.05	0.55	86.20	3.09	2.80	5.31	91.04
8	В	3.29	87.04	2.91	1.83	2.97	1.96	88.79
9	В	2.38	59.90	30.03	1.40	1.43	4.86	62.96
10	D	0.80	4.02	3.24	81.41	4.65	5.88	86.49
11	E	2.73	8.82	14.92	3.45	61.15	8.93	67.14
12	A	55.18	8.01	7.59	2.61	12.81	13.79	64.01
13	В	2.91	85.53	3.04	5.59	1.55	1.38	86.73
14	С	6.80	5.63	43.01	16.52	11.48	16.57	51.55
15	D	4.44	2.45	4.68	72.69	3.67	12.08	82.67
16	E	1.46	4.02	2.43	6.43	82.96	2.71	85.27
17	A	38.44	30.85	2.43	9.13	4.11	15.05	45.25
18	A	27.68	9.19	7.41	15.52	6.25	33.95	41.90
19	A	18.76	3.28	17.29	17.59	10.93	32.16	27.65
20	В	37.61	27.30	8.91	5.23	2.29	18.65	33.56
21	C	5.46	6.62	19.38	3.89	6.17	58.49	46.69
22	A	18.80	10.74	10.56	7.92	5.37	46.61	35.20
23	A	4.71	4.47	6.72	8.95	5.80	69.34	15.35
24	В	9.68	7.86	14.19	5.39	8.88	53.99	17.09
25	A	4.21	4.40	7.82	6.46	4.06	73.05	15.64

Score/ Note	Pascal Rank/	Cayley Rank/	Fermat Rank/	Score/ Note	Pascal Rank/	Cayley Rank/	Fermat Rank/
	Position	Position	Position		Position	Position	Position
150	1	1	1	99	9789	5384	4101
149				98	10156	5640	4272
148				97	10525	5936	4620
147		9.0		96	10955	6214	4877
146	10	30	-	95	11333	6491	5242
145	19	31	5 6	94	11760	6777	5494
$\frac{144}{143}$	20	32	О	93 92	12223	7066	5867
143 142	84	56	17	92 91	12582 $12969$	7342 7648	$6152 \\ 6443$
142	218	50	11	90	13369	7951	6760
141	219	133		89	13756	8231	7076
139	$\begin{array}{c} 219 \\ 225 \end{array}$	135		88	14169	8546	7403
138	239	139	27	87	14565	8845	7735
137	440	167	48	86	14949	9091	8041
136	469	177	51	85	15291	9413	8341
135	663	240	91	84	15643	9701	8627
134	667	241	63	83	16011	10021	8924
133	931	306	83	82	16381	10284	9245
132	980	315	88	81	16689	10572	9516
131	1173	367	139	80	16995	10841	9777
130	1225	394	140	79	17303	11103	10008
129	1413	486	178	78	17559	11369	10273
128	1499	505	179	77	17893	11721	10538
127	1803	636	213	76	18194	11965	10792
126	1866	666	227	75	18459	12227	11009
125	2120	778	350	74	18718	12457	11221
124	2208	818	357	73	18959	12711	11415
123	2436	909	426	72	19182	12935	11658
122	2563	974	435	71	19409	13216	11862
121	2908	1117	495	70	19627	13432	12056
120	3026	1185	526	69	19851	13631	12195
119	3362	1371	716	68	20033	13821	12348
118	3482	1444	731	67	20205	14015	12511
117	3774	1588	842	66	20354	14231	12674
116	3959	1696	867	65	20527	14478	12806
115	4302	1894	1008	64	20672	14669	12912
114	4481	2029	1069	63	20817	14815	13042
113	4850	2268	1344	62	20950	14963	13147
112	5034	2405	1397	61	21057	15144	13265
111	5381	2604	1626	60	21155	15323	13361
110	5635	2778	1671	59	21275	15443	13469
109	6045	3006	1876	58	21380	15547	13554
108	6337	3226	1957	57 50	21498	15690	13644
107	6778	3452	2307	56	21583	15828	13727
106	7047	3654	2382	55 54	21657	15967	13811
105	7493 7786	3903	2691	54 52	21736	16075	13882
104	7786	4119	2813	53 50	21802	16177 16265	13939
103	8195	4355	3077 2256	52 51	21872	16265	14000
102	8555	4639	3256	51 50	21932	16357	14058
101 100	$8955 \\ 9337$	4897	3586 2752	50	21979 $22022$	16443 $16517$	14117
100	9557	5144	3752	49	<i>ZZ</i> U <i>ZZ</i>	10917	14167

Score/	Pascal	Cayley	Fermat
Note	Rank/	Rank/	Rank/
40	Position	Position	Position
48	22057	16577	14206
47	22117	16637	14253
46	22150	16713	14308
45	22183	16784	14345
44	22213	16850	14378
43	22240	16897	14413
42	22272	16936	14434
41	22291	16983	14460
40	22320	17023	14482
39	22334	17053	14501
38	22351	17079	14518
37	22370	17098	14540
36	22386	17115	14552
35	22400	17136	14570
34	22409	17155	14576
33	22415	17173	14585
32	22423	17186	14595
31	22429	17193	14603
30	22438	17220	14615
29	22443	17234	14621
28	22450	17246	14626
27	22453	17256	14632
26	22460	17263	14637
25	22464	17275	14641
24	22468	17278	14645
23	22469	17282	14646
22	22471	17285	14648
21	22474	17288	14652
20		17290	14654
19	22478	17291	14656
18	22479	17292	14657
17	22481	17293	
16	22485	17295	14659
15			
14			14660
13		17296	14662
12		17297	
11			
10			14663

N.B. These rankings pertain to eligible contestants only  $\ /$ 

N.B. Ces rangs se rapportent seulement aux concurrents admissibles

Scores/ Notes	Pascal # of Schools/ No d'écoles	Cayley # of Schools/ No d'écoles	Fermat # of Schools/ No d'écol es
440 - 450	1	5	0
430 - 439	12	8	0
420 - 429	33	6	2
410 - 419	48	14	8
400 - 409	41	24	9
390 - 399	65	29	18
380 - 389	65	32	18
370 - 379	77	38	26
360 - 369	70	35	30
350 - 359	77	57	40
340 - 349	91	71	57
330 - 339	73	71	73
320 - 329	78	70	90
310 - 319	55	77	76
300 - 309	41	63	82

#### Number of three student teams / Nombre d'équipes de trois élèves

Pascal Contest / Concours Pascal: 950 Cayley Contest / Concours Cayley: 888 Fermat Contest / Concours Fermat: 875



## The CENTRE for EDUCATION in MATHEMATICS and COMPUTING

## Le CENTRE d'ÉDUCATION en MATHÉMATIQUES et en INFORMATIQUE

www.cemc.uwaterloo.ca

2012 2012

Results Résultats

Pascal Contest Concours Pascal

(Grade 9)

 $Cayley\ Contest$ Concours Cayley
(10<sup>e</sup> année – Sec. IV)

Fermat Contest Concours Fermat

> $(11^e \text{ ann\'ee} - Sec. V)$ (Grade 11)

Cayley Contest Honour Rolls Palmarès pour le concours Cayley

### 2012 Cayley Contest/Concours Cayley Team List/Palmarès d'équipes

Rank/	Şchool/	City/Ville	Score/Note
Rang	École		
1	University of Toronto Schools	Toronto	450
2	Bayview S.S.	Richmond Hill	444
2	St. Michael's Univ. School	Victoria	444
2	Waterloo C.I.	Waterloo	444
5	Western Canada H.S.	Calgary	442
6	Vincent Massey S.S.	Windsor	438
7	Don Mills C.I.	North York	434
7	Upper Can Col-Upper School	Toronto	434
9	Marc Garneau C.I.	North York	432
10	A.Y. Jackson S.S.	North York	431
10	Burnaby North S.S.	Burnaby	431
12	Brother Andre C.H.S.	Markham	430
12	Richmond Hill H.S.	Richmond Hill	430
14	Port Moody Sr. S.S.	Port Moody	428
15	Earl Haig S.S.	North York	426
16	Sir Winston Churchill S.S.	Vancouver	422
17	Mount Douglas S.S.	Victoria	420
17	Pickering H.S.	Ajax	420
17	University Hill S.S.	Vancouver	420
20	College Jean de Brebeuf	Montreal	418
20	Moscrop S.S.	Burnaby	418
20	Seaquam S.S.	Delta	418
20	St. George's School	Vancouver	418
24	University Transition Program	Vancouver	416
25	Thornhill S.S.	Thornhill	415
26	Burnaby South S.S.	Burnaby	414
26	Colonel By S.S.	Gloucester	414
26	Martingrove C.I.	Etobicoke	414
29	Sir John A. Macdonald C.I.	Scarborough	413
30	Mentor College	Mississauga	412
31	College Jean Eudes	Montreal	410
31	Halifax West H.S.	Halifax	410
31	The Woodlands School	Mississauga	410
34	Appleby College	Oakville	409
34	Holy Trinity School	Richmond Hill	409
36	Lisgar C.I.	Ottawa	408
36	Pinetree S.S.	Coquitlam	408
36	Sir Winston Churchill H.S.	Calgary	408
36	Southridge School	Surrey	408
36	York Mills C.I.	North York	408
41	Bur Oak S.S.	Markham	406
41	E. Int'l de Montreal	Westmount	406
43	Bell H.S.	Nepean	405
43	Dr. Norman Bethune C.I.	Scarborough	405
45	Charles P. Allen H.S.	Bedford	404
45	Glenforest S.S.	Mississauga	404
45	Leo Hayes H.S.	Fredericton	404
48	Burnaby Mountain S.S.	Burnaby	402
48	Fort Richmond C.I.	Winnipeg	402
48	Markham District H.S.	Markham	402
48	Old Scona Academic H.S.	Edmonton	402
48	St. John's-Ravenscourt School	Winnipeg	402

Name/Nom		School/École	Location/ Endroit	Grade/Niveau
Group I/Groupe	1	Scores/Notes 150 - 147		
СНО	DAVID	Nicholson Catholic College	Belleville	10
CHOW	MICHAEL	Albert Campbell C.I.	Scarborough	10
DONG	JIAQI	Don Mills C.I.	North York	10
FANG	GLORIA	University of Toronto Schools	Toronto	9
GAO	HAOWEI	Bayview S.S.	Richmond Hill	10
HARA	KAZUKI	Pacific Christian School	Victoria	10
HE	MARS	Richmond Hill H.S.	Richmond Hill	10
JIA	XINRUI	Vincent Massey S.S.	Windsor	10
JIANG	JIAHUI	Bayview S.S.	Richmond Hill	10
JIN	BILLY	Waterloo C.I.	Waterloo	10
KANG	ANDREW	St. Michael's Univ. School	Victoria	10
KIM	ANDREW	University of Toronto Schools	Toronto	9
KO	JOOHYUNG	A.Y. Jackson S.S.	North York	10
KWUN	TAEK HEE	Halifax West H.S.	Halifax	10
LEE	CATHERINE	Appleby College	Oakville	10
LEE	TOM	Mount Douglas S.S.	Victoria	10
LI	BRIAN	Brother Andre C.H.S.	Markham	10
LI	SHUHAO	University Transition Program	Vancouver	8
PARK	DANNY	St. Michael's Univ. School	Victoria	10
PARK	SANG WOO	King's Christian Collegiate	Oakville	10
PARK	YEOUNSU	Port Moody Sr. S.S.	Port Moody	10
QI	QI	Burnaby North S.S.	Burnaby	8
SISSON	DESMOND	Western Canada H.S.	Calgary	10
WU	FEI	Upper Can Col-Upper School	Toronto	10
WU	GLORIA	University of Toronto Schools	Toronto	9
XU	ROBBIN	Lisgar C.I.	Ottawa	10
YE	ANNA	Burnaby South S.S.	Burnaby	10
ZHU	RYAN	Western Canada H.S.	Calgary	10
ZINN	CHARLES	Waterloo C.I.	Waterloo	10
Group II/Groupe	e II	Scores/Notes 146 - 143		
BARTY	JAMES	Saint Michaels C.H.S.	Niagara Falls	10
BELLAVANCE	NICOLAS	E.S. Ozias-Leduc	Mont-Saint-Hilaire	10
CHANG	CHEN	Vincent Massey S.S.	Windsor	10
CHEN	DANIEL	Mentor College	Mississauga	10
CONGRAM	BEN	Stratford Northwestern S.S.	Stratford	10
HAN	JACKY	St. Michael's Univ. School	Victoria	10
HU	DANCHENG	Fort Richmond C.I.	Winnipeg	10
KESELJ	STEFAN	Charles P. Allen H.S.	Bedford	10
LEE	JUNHO	Leo Hayes H.S.	Fredericton	10
LEE	NICHOLAS	Sinclair S.S.	Whitby	10
LI	DUN	Bayview S.S.	Richmond Hill	10
LIANG	JEFFREY	Merivale H.S.	Nepean	10
LU	YI FAN		North York	10
PARK	JOHN	Leo Hayes H.S.	Fredericton	10
SHIM	SUNG HWAN	Kitsilano S.S. (English)	Vancouver	9
SONG	QIANLIN	Campbell C.I.	Regina	10
TANG	SIMON	Vincent Massey S.S.	Windsor	10
VAN HEER	SHYAN	Brother Andre C.H.S.	Markham	10
WANG	YITAO	Rockridge S.S.	West Vancouver	10
WEN	CHRISTIAN	Marc Garneau C.I.	North York	10
WONG	JASON	Moscrop S.S.	Burnaby	10
MONG	CANDA	Windont Maggar C C	Windon	1.0

Vincent Massey S.S.

Windsor

10

WONG

SANDY

#### Group II/Groupe II Scores/Notes 146 - 143 Marc Garneau C.I. 10 XIAOZE North York ZHANG JIM Waterloo C.I. Waterloo 10 ZHOU JOHN University of Toronto Schools 9 Toronto ZHOU YEXINHAO Marc Garneau C.I. North York 10 Group III/Groupe III Scores/Notes 142 - 141 St. George's School ADAM TAHTD Vancouver 10 Harbord C.I. BAE STELLA 10 Toronto York Mills C.I. BAO JONATHAN North York 10 WEIGUANG Selwyn House School Westmount 10 ΒI Don Mills C.I. CAI KEVIN North York 10 CAO JESSICA Marc Garneau C.I. North York 10 JUSTIN Upper Can Col-Upper School 10 CHAT Toronto Upper Can Col-Upper School 10 CHAN ALEX Toronto CHEN CRYSTAL Thornhill S.S. Thornhill 10 CHEN ERIC Point Grey S.S. Vancouver 10 Don Mills C.I. CHEN KEVIN North York 10 CHEN RENPEI Bayview S.S. Richmond Hill 10 TONY Parkdale C.T. Toronto 10 CHEN Barrie North C.I. CHENG LISA Barrie 10 Richmond S.S. DAI VIVIAN Richmond 10 DAN IEL PARK Earl Haig S.S. North York 10 DEANE MATTHEW Pickering H.S. Ajax 10 DES COTES BERT Nelson H.S. Burlington 10 DONG LARRY College Jean de Brebeuf 10 Montreal Lachine DU ZHUO CHENG College Sainte-Anne de Lachine 10 FENG EDWARD University of Toronto Schools Toronto 9 FRENETTE MAXENCE College Jean Eudes Montreal 10 HAOJI TANG Seaquam S.S. Delta 10 HUANG DAVID Colonel By S.S. Gloucester 10 TTANG CHENGYANG Mount Douglas S.S. Victoria 10 JIANG KEVIN Marc Garneau C.I. North York 10 JIANG TIMOTHY Hugh McRoberts S.S. Richmond 10 KIM EUN KEE Mentor College Mississauga 10 KIM GEUNMOK Ancaster H.S. Ancaster 10 LAI ELBERT Waterloo C.I. Waterloo 8 EMILY North York 10 T.AM LANGEVIN St. Ann's Academy 10 BRIAN Kamloops LAU WOODY Upper Can Col-Upper School Toronto 10 EILON A.B. Lucas S.S. London 10 LAVI LEE ANGUS Hillfield-Strathallan Coll. H.S. Hamilton 10 LEE STEPHEN Bayview S.S. Richmond Hill 10 EDRIC Upper Can Col-Upper School 10 LEUNG Toronto Sir Winston Churchill S.S. 10 LEUNG NICHOLAS Vancouver LEUNG TIFFANY University of Toronto Schools Toronto q BENJAMIN Earl Haig S.S. North York 10 LΙ LYN Bayview S.S. Richmond Hill 10 LIM JEANNE Burnaby North S.S. Burnaby Don Mills C.I. STHAO North York 10 T.TU Pierre Elliott Trudeau H.S. ΜA ZIYE Markham 10 Fredericton H.S. MERLINI MARCO Fredericton 10 MORTON ADRIAN Port Credit S.S. Mississauga 10 Fleetwood Park S.S. PEI YAN RU Surrey 10

Richmond Hill H.S.

Pickering H.S.

Richmond Hill

Ajax

10

10

PENG

ROUSSO

STEPHEN

DAVID

Group III/Groupe	· III	Scores/Notes 142 - 141		
SU	ZI QING	Bayview S.S.	Richmond Hill	10
SUK	PAUL	Martingrove C.I.	Etobicoke	10
SUN	ALEX	University Hill S.S.	Vancouver	10
TAU	ANDREW	Bayview S.S.	Richmond Hill	10
TIAN	RYAN	Bayview S.S.	Richmond Hill	9
TING	TA JIUN	Burnaby Central S.S.	Burnaby	10
WAN	CLEMENT	University of Toronto Schools	Toronto	9
WANG	KEVIN	Holy Trinity School	Richmond Hill	10
WANG	YUE	A.Y. Jackson S.S.	North York	10
WANG	ZHIYUAN	Marc Garneau C.I.	North York	10
WU	JIM	Bur Oak S.S.	Markham	10
XIA	TIM	Sir Winston Churchill H.S.	Calgary	10
XIAO	DAPHNE	Holy Trinity School	Richmond Hill	10
XU	STEPHEN	Bell H.S.	Nepean	10
XU	YI MICHAEL	Bayview S.S.	Richmond Hill	10
YE	JIMMY	Sir John A. Macdonald C.I.	Scarborough	10
YIN	DAVID	The Woodlands School	Mississauga	10
ZHANG	ANNI	Sir Winston Churchill S.S.	Vancouver	10
ZHANG	KEVIN	College Jean de la Mennais	La Prairie	10
ZHANG	RICHARD	College Jean de Brebeuf	Montreal	10
ZHANG	TONY	Vincent Massey S.S.	Windsor	10
ZHANG	YANRU	Port Moody Sr. S.S.	Port Moody	10
ZHANG	YUCHENG	Western Canada H.S.	Calgary	10
ZHANG	ZIYE	College St. Alexandre	Gatineau	10
ZHAO	ERICK	College Beaubois	Pierrefonds	10
ZHOU	IV N	Earl Haig S.S.	North York	10
ZHU	FRANK	University Hill S.S.	Vancouver	10
ZHU	JAMESON	Windermere S.S.	Vancouver	10
Group IV/Groupe	e IV	Scores/Notes 140 - 136		
AN	ANDY	University Hill S.S.	Vancouver	10
ASAMINEW	JOSEPH	St. John's-Ravenscourt School	Winnipeg	10
BETTENCOURT	JACQUELINE	Barrie North C.I.	Barrie	10
BIAN	LISA	Waterloo C.I.	Waterloo	8
CAI	DAVID	Crescent School	North York	10
CHANG	MATTHEW	Moscrop S.S.	Burnaby	10
CHEN	FANNY	York Mills C.I.	North York	10
CHEN	ZI KAI	Colonel By S.S.	Gloucester	10
CHO	WON BUM	St. Theresa of Lisieux C.H.S.	Richmond Hill	10
CHOI	ANDREW	Bayview S.S.	Richmond Hill	10
CHUNG	LINUS	Seaquam S.S.	Delta	10
DEANE	THOMAS	Pickering H.S.	Ajax	10
DONG	HELEN	Innisdale S.S.	Barrie	10
FITZPATRICK	LIAM	St. Peter C.H.S.	Orleans	10
FLOREA	ALEXANDRU	Martingrove C.I.	Etobicoke	10
GHANGASS	SOORUJ	Southridge School	Surrey	10
GHERGHE	SEBASTIAN	Marc Garneau C.I.	North York	10
GUI	JEREMY	St. Aloysius Gonzaga S.S.	Mississauga	10
GUO	SHERRY	Martingrove C.I.	Etobicoke	10
HAN	HENRY	St. George's School	Vancouver	10
HEINZLE	JOSEPH	St. Theresa of Lisieux C.H.S.	Richmond Hill	10
HOU	YAWEN	E. Int'l de Montreal	Westmount	10
HU	LANCE	St. Michael's Univ. School	Victoria	10
*****	MING HAN	Mahamlaa O T	77 - 6 T	1.0

Waterloo C.I.

Bayview S.S.

Waterloo

Richmond Hill

10

10

HU

HUA

TING HAN

KEVIN

#### Group IV/Groupe IV Scores/Notes 140 - 136 HUANG Marc Garneau C.I. 10 North York HUANG TODD Burnaby Mountain S.S. Burnaby 10 HUANG TONY North York 10 TSMATT. AMEEN Merivale H.S. Nepean 10 IWASAKI HIKARI Miss Edgar and Miss Cramp's Westmount 8 School JIN BEN Earl Haig S.S. North York 10 TIT DAVID North Surrey S.S. Surrey 10 JΌ FRANK North Surrey S.S. 10 Surrey St. George's School TN GUK Vancouver 10 KANG CHANG TING Gloucester H.S. KAO Gloucester 10 KIM ANDREW Bishop Carroll H.S. Calgary 10 coquitlam CHAEEUN 10 KIM KIM DONG KYU Port Moody Sr. S.S. Port Moody 10 St. Joseph's S.S. KIM SEUNGHYUN Cornwall 10 YEONKYEONG Webber Academy 10 KTM Calgary R.E. Mountain S.S. LEE CHANGEUN Langley 10 LEE JASON Walnut Grove S.S. Langley 9 LOUIS Pinetree S.S. Coquitlam 10 LEE LEE OLIVER Moscrop S.S. Burnaby 10 LEE SEBASTIAN St. Paul's H.S. Winnipeg 10 LEOWINATA Canada's National Ballet School STELLA Toronto 10 LEUNG CHARLES Pinetree S.S. Coquitlam 10 LI ANDREW Dr. Norman Bethune C.I. Scarborough 10 OLIVER Bayview S.S. Richmond Hill 10 LI T.T PAUL R.C. Palmer S.S. Richmond 10 TONY St. George's School Vancouver 10 LI T.T A.Y. Jackson S.S. North York 10 YANOIAN 10 LI YONGXUAN Westmount S.S. Hamilton LINTON OWEN Pickering H.S. Ajax 10 KAREN Sir John A. Macdonald C.I. Scarborough 10 LU TIT LIUPEI Gleneagle S.S. Coquitlam 10 GARRETT Glenview Park S.S. Cambridge 10 LYONS DARREL Seaguam S.S. Delta 9 MΑ MACLEAN ALEX Elmira D.S.S. Elmira 10 MADER BRADLEY Park View Education Centre Bridgewater 10 MANJUNATH ANOOP University of Toronto Schools Toronto 9 NYTRT BLANKA Colonel By S.S. Gloucester 10 TYLER A.R. MacNeill S.S. OR Richmond 10 St. Francis Xavier S.S. OUELLETTE MICHAEL Mississauga 10 St. Michael's Univ. School PARK **JENNIFER** Victoria 10 PASRICHA SACHIN Upper Can Col-Upper School Toronto 10 PATTAR SIMARPREET Southridge School 10 Surrey QIN LIFEI Glenforest S.S. Mississauga 10 MICHAEL Old Scona Academic H.S. Edmonton RIJ 10 Cornwall C.I. & V. S. SELVANAYAGAM TANAHAN Cornwall 10 SETHURAMAN Richmond Hill VARUN Bayview S.S. 10 SHAO STEVEN Burnaby North S.S. Burnaby 10 SHEN MARY Sir Winston Churchill S.S. Vancouver 10 SHIH ANDY Steveston London S.S. Richmond 10 SON G PE TER St. Andrew's College Aurora 10 SONG JULIAN Sir Winston Churchill S.S. Vancouver 10 SONG SCOTT Burnaby Mountain S.S. Burnaby 10 SUN YUEFAN Branksome Hall Toronto 10 Earl Haig S.S. North York 10 SZE SERENA

Thornhill S.S.

Victoria Park C.I.

Thornhill

North York

10

10

SHAW

ABEYAN

THIRUNAVUKKARA

Montreal 10

Group IV/Group	e IV	Scores/Notes 140 - 136
UAICLANCOURT H	THOMAS	College Jean Eudes
WANG	GUO KAI	Elgin Park S.S.
MANG	T T TO M C	T Tobil de Membres

		<del>-</del>		
WANG	GUO KAI	Elgin Park S.S.	Surrey	10
WANG	ZITONG	E. Int'l de Montreal	Westmount	10
WEI	ZHONGYI	Don Mills C.I.	North York	10
WINCH	HARRISON	Marc Garneau C.I.	North York	10
WONG	CALVIN	Markham District H.S.	Markham	10
WONG	SIUHEI	Sir Winston Churchill S.S.	Vancouver	10
XU	YU KANG	New Westminster S.S.	New Westminster	10
XU	YUWEI	Vincent Massey S.S.	Windsor	10
YANG	HELEN	Colonel By S.S.	Gloucester	10
YANG	MICHAEL	Dr. Norman Bethune C.I.	Scarborough	10
YANG	THOMAS	St. George's School	Vancouver	10
YEUNG	BRIAN	Bayview S.S.	Richmond Hill	10
YEUNG	KAREN	A.Y. Jackson S.S.	North York	10
YI N	OWEN	Burnaby North S.S.	Burnaby	8
YU	XIAOXUAN	Walter Murray C.I.	Saskatoon	10
YZENBRANDT	KAI	Claremont S.S.	Victoria	10
ZHANG	JERRY	Bayview S.S.	Richmond Hill	10
ZHANG	KEVIN	University Transition Program	Vancouver	8
ZHANG	LANCE	Elgin Park S.S.	Surrey	10
ZHANG	MINGHE	Thornlea S.S.	Thornhill	10
ZHANG	ZIHAO	Vincent Massey S.S.	Windsor	10
ZHAO	ALICE	Moscrop S.S.	Burnaby	10
ZHAO	COLIN		North York	10
ZHOU	JERRY	Bayview S.S.	Richmond Hill	10
ZHOU	KEWEI	Richmond Hill H.S.	Richmond Hill	10

#### Group V/Groupe V

#### Scores/Notes 135 - 132

Cloup V/ Cloups		000100/110100 100 102		
AN	CHENGYUN	Westmount H.S.	Westmount	10
ASANTEY	KWESI	London Central S.S.	London	10
CHAN	HAO ZHI	Lord Byng S.S.	Vancouver	10
CHAN	MATTHEW		North York	10
CHEN	ANGELA	Lord Byng S.S.	Vancouver	10
CHEN	CINDY	Bayview S.S.	Richmond Hill	10
CHEN	JIYANG	College Jean de Brebeuf	Montreal	10
CHEN	LEROY	Pinetree S.S.	Coquitlam	10
CHENG	VICKY	Agincourt C.I.	Scarborough	10
CHENG	WAYNE	Lawrence Park C.I.	Toronto	10
CHOI	JULIET	Sir Winston Churchill S.S.	Vancouver	10
DAI	YU NING	Sir Winston Churchill H.S.	Calgary	10
DAS	DYUMAN	West Carleton S.S.	Dunrobin	10
DHAWAN	VANSHIKA	Turner Fenton S.S.	Brampton	10
DONG	MICHELLE	The Woodlands School	Mississauga	10
FAN R	BOYAN	College Jean de Brebeuf	Montreal	10
FANG	JERRY	Seaquam S.S.	Delta	10
FRANCIS	DAVID	University of Toronto Schools	Toronto	9
GANESH	JEGA	Richmond Hill H.S.	Richmond Hill	10
GAO	XIAOYA	College Jean Eudes	Montreal	10
GEORGES	GABRIEL	College Jean Eudes	Montreal	10
GRENIER	ERIC	College Jean de la Mennais	La Prairie	10
GUO	FOREST	Seminaire de Sherbrooke	Sherbrooke	10
HAJI	TARIQ	Marc Garneau C.I.	North York	10
HARRIS	OCTAVIO	Sir John A. Macdonald S.S.	Waterloo	10
HUA NG	GLORIA	Southpointe Academy	Delta	10
HUANG	DANIEL	St. John's-Ravenscourt School	Winnipeg	10

#### Group V/Groupe V

#### Scores/Notes 135 - 132

HUYNH	ATHENA	University Hill S.S.	Vancouver	10
JACKSON	JACOB	University of Toronto Schools	Toronto	9
JANTAK	SOPHIE	Pierrefonds Comprehensive H.S.	Pierrefonds	10
JANUS	JACK	St. Michael's Univ. School	Victoria	10
JEOUNG	STEVE	London Central S.S.	London	10
JEYASEELAN	AERON	Unionville H.S.	Markham	10
JIANG	LEO	Victoria Park C.I.	North York	10
JIANG	XINRONG	York House School	Vancouver	10
JIN	JAMES	Upper Can Col-Upper School	Toronto	10
KANG	DON	Port Moody Sr. S.S.	Port Moody	10
KAY	RUPERT	St. George's School	Vancouver	10
KHONG	EDREA	Pickering H.S.	Ajax	10
KIM	JIHYEON	Pinetree S.S.	Coquitlam	10
KIM	SEUNG YOON		coquitlam	10
KRAPIVSKY	JONATHAN	Academy for Gifted Children-PACE	Richmond Hill	10
KULIKOV	DANIEL	Thornhill S.S.	Thornhill	10
KWAK	FRED	Old Scona Academic H.S.	Edmonton	10
LAM	SIMON	University of Toronto Schools	Toronto	9
LAU	ANTHEA	Earl Haig S.S.	North York	10
LAU	STELLA	St. Francis Xavier S.S.	Mississauga	10
LE	ANTHONY	Bayview S.S.	Richmond Hill	10
LEE	BRIAN	Bayview S.S.	Richmond Hill	10
LEE	IAN	St. George's School	Vancouver	10
LEE	JAE WOOK	Forest Hill C.I.	Toronto	10
LEE	SEOJIN	Cameron Heights C.I.	Kitchener	10
LEE	SUNNY	Point Grey S.S.	Vancouver	10
LEM	TRACEY	West Hill C.I.	Scarborough	10
LI	ALICE	Leaside H.S.	East York	10
LI	NATHAN	The Woodlands School	Mississauga	10
LI	RONGZHAO	Waterloo C.I.	Waterloo	10
LI	SHUHAO	Semiahmoo S.S.	Surrey	10
LI	VICTOR	St. John's-Ravenscourt School	Winnipeg	10
LI	YILUN	E. Int'l de Montreal	Westmount	10
LIMFAYLAY	MATTHEW	Brother Andre C.H.S.	Markham	10
LIN	ALBERT	J.N. Burnett S.S.	Richmond	10
LIU	LYDIA	Unionville H.S.	Markham	10
LIU	QINGFAN	London Central S.S.	London	10
LIU	RUNJIA	Brookfield H.S.	Ottawa	10
LU	VINCENT	Bur Oak S.S.	Markham	10
M RCEAU	HENRI PHIL	College Notre-Dame	Sudbury	10
MANLEY	NATHAN	Bernice MacNaughton H.S.	Moncton	10
MATSUI	NOAH	William Lyon Mackenzie C.I.	North York	10
MIRZOYAN	RUBEN	Vaughan S.S.	Thornhill	10
MOTZ	CHRIS	Waterloo C.I.	Waterloo	10
MUCSI	BEN	University of Toronto Schools	Toronto	9
NAM	GINA	Kelvin H.S.	Winnipeg	10
NG	KELVIN	University of Toronto Schools	Toronto	9
NG	VINCENT	E.S. St. Luc	Montreal	10
NI	FAY	Pinetree S.S.	Coquitlam	10
NIEDZIALEK	ANDREW	Sacred Heart C.H.S.	Newmarket	10
PARK	KATIE	Pacific Academy	Surrey	10
RAW	JAKE	Waterloo C.I.	Waterloo	10
RUI	ALLAN	Western Canada H.S.	Calgary	10
SANTOLI	STEVEN	Sherwood S.S.	Hamilton	10
SHEN	JACQUELINE	Burnaby South S.S.	Burnaby	10
SHI	XINYU	Lord Byng S.S.	Vancouver	10
SITO	TRISTAN	Bayview S.S.	Richmond Hill	10

## Group V/Groupe V

#### Scores/Notes 135 - 132

STEFURAK	DUNCAN	Pitt Meadows S.S.	Pitt Meadows	10
TAN	DAVID	David Thompson S.S.	Vancouver	10
TANG	DAVID	Northern S.S.	Toronto	10
TANG	JASON	Brother Andre C.H.S.	Markham	10
URBAN	ADAM	Leaside H.S.	East York	10
WALDEN	EVAN	Stratford Central S.S.	Stratford	10
WANG	CHENYU	Vincent Massey S.S.	Windsor	10
WANG	CHINCHIN	Bell H.S.	Nepean	10
WANG	MARTIN	University Hill S.S.	Vancouver	10
WANG	MASSIE	Fraser Heights S.S.	Surrey	10
WANG	RENHAO	Marc Garneau C.I.	North York	10
WANG	RYAN	St. John's-Ravenscourt School	Winnipeg	10
WANG	SHERRY	Old Scona Academic H.S.	Edmonton	10
WEN	SI JIA	Moscrop S.S.	Burnaby	10
WIJAYA	GRACE	Sir Winston Churchill H.S.	Calgary	10
WONG	BRODY	Southridge School	Surrey	10
WONG	MARCUS	Pinetree S.S.	Coquitlam	10
WU	CHUANXIN	Sir John A. Macdonald C.I.	Scarborough	10
WU	KENNETH	Seaquam S.S.	Delta	10
WU	YIXIN	Lord Byng S.S.	Vancouver	10
XIA	YUNXIAO	Glenforest S.S.	Mississauga	10
XIE	ANGELA	Marc Garneau C.I.	North York	10
XU	SUM	Pinetree S.S.	Coquitlam	10
XU	YI	Glenforest S.S.	Mississauga	10
YAN	ZEN		Scarborough	10
YANG	HUIYI	Dr. Norman Bethune C.I.	Scarborough	10
YANG	MIKE	Sir Winston Churchill S.S.	Vancouver	10
YANG	ZIFAN	Bayview S.S.	Richmond Hill	10
YAO	ZHENG	A.Y. Jackson S.S.	North York	10
YOU	YOONSUN	Earl Haig S.S.	North York	10
YOUNG	RYAN	Markham District H.S.	Markham	10
YU	ALEC	Pinetree S.S.	Coquitlam	10
YU	TOMMY	Pinetree S.S.	Coquitlam	10
YUAN	BROCK	Sir Winston Churchill S.S.	Vancouver	10
ZHANG	BRENDAN	Unionville H.S.	Markham	10
ZHAO	JONATHAN	North Toronto C.I.	Toronto	10
ZHAO	KINNA	Albert Campbell C.I.	Scarborough	10
ZHOU	ALICE	Sir John A. Macdonald S.S.	Waterloo	10
ZHOU	ZEHUI	Collingwood School	West Vancouver	10
ZHU	GRACE	Glenforest S.S.	Mississauga	10
ZHU	MARY	Earl Haig S.S.	North York	10
ZHU	WEI YU	Northern S.S.	Toronto	10
ZIZHEN	MU	Royal Vale School	Montreal	10