



2009
Results

2009
Résultats

Pascal Contest
(Grade 9)

Concours Pascal
(9^e année – Sec. III)

Cayley Contest
(Grade 10)

Concours Cayley
(10^e année – Sec. IV)

Fermat Contest
(Grade 11)

Concours Fermat
(11^e année – Sec. V)

Avec la contribution de:



Avec la participation de:



LA PARFAITE ALLIANCE COMMUNAUTAIRESM



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

Ed Anderson
Lloyd Auckland
Terry Bae
Janet Baker
Steve Brown
Jennifer Couture
Frank DeMaio
Marie-Pascale Desjardins
Fiona Dunbar
Jeff Dunnett
Mike Eden
Barry Ferguson
Judy Fox
Steve Furino
Sandy Graham
Angie Hildebrand
Judith Koeller
Joanne Kursikowski
Angie Murphy
Dean Murray
Jen Nissen
J.P. Pretti
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
Nerissa Coronel, St. Marguerite d'Youville C.S.S., Brampton, ON
JP Pretti, University of Waterloo, Waterloo, ON
Jim Schurter, University of Waterloo, Waterloo, ON
Tyler Somer, Kitchener, ON
Anna Spanik, Halifax West H.S., Halifax, NS

Cayley Contest / Concours Cayley

Jeff Anderson (Chair / président), Forest Heights C.I., Kitchener, ON
Tom Barker, Stratford, ON
Steve Furino, University of Waterloo, Waterloo, ON
Shawn Godin, Cairine Wilson S.S., Orleans, ON
Catherine Haines, Toronto, ON
Christopher Ing, Vincent Massey S.S., Windsor, ON
Jack Koenka, Toronto, ON
Jen Nissen, University of Waterloo, Waterloo, ON

Fermat Contest / Concours Fermat

Paul Fennell (Chair / président), London, ON
Fiona Dunbar, University of Waterloo, Waterloo, ON
Steve Lau, John Diefenbaker S.S., Hanover, ON
Cliff Lelievre, Oakville, ON
Dean Murray, University of Waterloo, Waterloo, ON
Alexandru Pintilie, Crescent School, Toronto, ON
Dan Schnabel, Vaughan S.S., Thornhill, ON
David Shepherd, Ravenna, ON

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 2009 marks the 47th 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 average of 87.9, 90.0 and 85.1 across the three Contests. The number of students with perfect papers on the three Contests were 5, 19 and 3. We are very pleased with these results. The overall number of students writing this year's papers showed a small increase over that from 2008.

Again this year, individual school results were available online in "real time" as we scanned and marked forms. As a result, we were able to have some students' scores available within two days of the Contests. We hope that it is helpful to you to get such quick feedback.

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 2009 marque la 47e 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 87,9, 90,0 et 85,1 à travers les trois Concours. Le nombre d'étudiants possédant un concours parfait était de 5, 19 et 3. Nous sommes satisfait de ces résultats. L'ensemble du nombre de participants cette année a montré une petite augmentation comparée à 2008.

Encore une fois cette année, les résultats d'école étaient disponible en ligne au fur et à mesure que nous avons balayé et corrigé les formulaires de réponses. Par conséquent, nous avons les résultats pour beaucoup des étudiants disponibles deux jours après les Concours. Nous espérons qu'il vous est utile de recevoir des résultats aussi rapidement.

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	55	50	50
NS	38	28	28
NB	32	31	32
PE	7	4	4
QC	105	102	103
ON	664	641	642
MB	46	47	48
SK	38	35	35
AB	87	39	46
BC	199	188	184
International	68	74	72
Total	1339	1239	1244

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

	Pascal	Cayley	Fermat
NL	1114	818	724
NS	1305	620	612
NB	749	745	558
PE	184	73	66
QC	3214	2986	2548
ON	14699	12039	10502
MB	1404	990	838
SK	707	583	516
AB	2646	766	726
BC	5858	4831	4277
International	2601	2338	1829
Total	34481	26789	23196

Total number of students enrolled / Nombre d'inscriptions individuelles: 84466

**2009 STUDENT CHAMPIONS AND CHAMPIONSHIP TEAMS
PALMARÈS INDIVIDUEL ET PALMARÈS PAR ÉQUIPE 2009**

PASCAL CONTEST / CONCOURS PASCAL

STUDENTS / ÉLÈVES

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

Gold Medals	School	Location	Grade
Médailles d'or	École	Endroit	Niveau
ANQI DONG	Walter Murray C.I.	Saskatoon	9
ANDY LI	Moscrop S.S.	Burnaby	9
MATHIEU NASSIF	College Jean de Brebeuf	Montreal	9
COLIN TA	Windermere S.S.	Vancouver	9
HENG TANG	Bayview S.S.	Richmond Hill	9

TEAMS / ÉQUIPES

	School	Location	Score
	École	Endroit	Note
Champion / Première	University of Toronto Schools	Toronto	427
Second / Deuxième	College Jean de Brebeuf	Montreal	424
Third / Troisième	Walter Murray C.I.	Saskatoon	422
Fourth / Quatrième	Glenforest S.S.	Mississauga	421
Fifth / Cinquième	Colonel By S.S.	Gloucester	420

**2009 STUDENT CHAMPIONS AND CHAMPIONSHIP TEAMS
PALMARÈS INDIVIDUEL ET PALMARÈS PAR ÉQUIPE 2009**

CAYLEY CONTEST / CONCOURS CAYLEY

STUDENTS / ÉLÈVES

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

Gold Medals	School	Location	Grade
Médailles d'or	École	Endroit	Niveau
JOSEPH ALACCHI	Loyola H.S.	Montreal	10
KEVIN CHU	Moscrop S.S.	Burnaby	10
JAY DOU	Moira S.S.	Belleville	10
JIMMY FANG	St. Robert C.H.S.	Thornhill	10
AILEEN GAO	Sir Winston Churchill S.S.	Vancouver	10
LINCOLN GUO	University of Toronto Schools	Toronto	9
SHANE HU	Marc Garneau C.I.	North York	10
LEO LAI	Point Grey S.S.	Vancouver	8
TIAN LAN	Northern S.S.	Toronto	10
ELLEN LEE	St. Francis Xavier S.S.	Mississauga	10
XIN NING	A.Y. Jackson S.S.	North York	10
KRISS PETROUNOV	Marc Garneau C.I.	North York	10
SIMON YOUNAN	St. Francis Xavier S.S.	Mississauga	10
STEVEN YU	Pinetree S.S.	Coquitlam	9
JOE ZENG	Don Mills C.I.	North York	10
ERIC ZHAN	University of Toronto Schools	Toronto	9
JASMINE ZHANG	Bayview S.S.	Richmond Hill	10
DONG CHENZHOU	E.S. St. Luc	Montreal	10
ANANDA ZHU	John Fraser S.S.	Mississauga	10

TEAMS / ÉQUIPES

	School	Location	Score
	École	Endroit	Note
Champion / Première	Marc Garneau C.I.	North York	444
Second / Deuxième	University of Toronto Schools	Toronto	442
Third / Troisième	Don Mills C.I.	North York	436
	Northern S.S.	Toronto	436
Fifth / Cinquième	E.S. St. Luc	Montreal	434
	Sir Winston Churchill S.S.	Vancouver	434

**2009 STUDENT CHAMPIONS AND CHAMPIONSHIP TEAMS
PALMARÈS INDIVIDUEL ET PALMARÈS PAR ÉQUIPE 2009**

FERMAT CONTEST / CONCOURS FERMAT

STUDENTS / ÉLÈVES

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

Gold Medals	School	Location	Grade
Médailles d'or	École	Endroit	Niveau
LIZ CHEN	Walter Murray C.I.	Saskatoon	11
ROBIN CHENG	Pinetree S.S.	Coquitlam	11
JAMES LAM	E.S. Antoine Brossard	Brossard	11
JAMES RICKARDS	Colonel By S.S.	Gloucester	9
MARIYA SARDARLI	McKernan J.H.S.	Edmonton	9

TEAMS / ÉQUIPES

	School	Location	Score
	École	Endroit	Note
Champion / Première	Pinetree S.S.	Coquitlam	425
Second / Deuxième	University of Toronto Schools	Toronto	422
Third / Troisième	Don Mills C.I.	North York	416
Fourth / Quatrième	Earl Haig S.S.	North York	414
	Richmond Hill H.S.	Richmond Hill	414

**2009 FERMAT CONTEST PROVINCIAL CHAMPIONS
CHAMPIONS PROVINCIAUX AU CONCOURS FERMAT 2009**

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	JORDAN ANSTEY	New World Island Academy	Summerford
NS	CASPER MACAULAY	Halifax Grammar School	Halifax
NB	XI ZHANG	Saint John H.S.	Saint John
PE	MICHAEL LI	Colonel Gray Sr. H.S	Charlottetown
QC	JAMES LAM	E.S. Antoine Brossard	Brossard
ON North	WILL HALL	Banting Memorial H.S.	Alliston
ON North	MATTHEW HYNDMAN	Central Algoma S.S.	Desbarats
ON East	JAMES RICKARDS	Colonel By S.S.	Gloucester
ON Metro	BRIAN BI	Woburn C.I.	Scarborough
ON Metro	DENNIS LU	Earl Haig S.S.	North York
ON West	LOUIS HONG	Sir John A. Macdonald S.S.	Waterloo
ON West	CHEN SUN	A.B. Lucas S.S.	London
ON Central	STEVEN YANG	Rick Hansen S.S.	Mississauga
ON Central	DANIEL YOO	Thornhill S.S.	Thornhill
MB	GIUSEPPE GRANDE	Grant Park H.S.	Winnipeg
SK	LIZ CHEN	Walter Murray C.I.	Saskatoon
AB	MARIYA SARDARLI	McKernan J.H.S.	Edmonton
BC	ROBIN CHENG	Pinetree S.S.	Coquitlam

#	Pascal	Cayley	Fermat
1	D	A	D
2	E	E	E
3	D	C	C
4	A	D	B
5	D	A	A
6	A	D	A
7	C	E	D
8	D	B	C
9	B	D	C
10	C	A	E
11	E	C	D
12	D	C	C
13	A	E	A
14	A	D	E
15	B	A	B
16	E	B	C
17	B	C	B
18	D	B	B
19	C	D	A
20	E	B	A
21	C	E	D
22	E	E	E
23	B	A	D
24	B	B	D
25	D	C	C

Number of Contestants / Nombre de concurrents: 27633

Average mark / Note moyenne: 87.89

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

#	Correct Answer/ Bonne Réponse	A	B	C	D	E	% not attempted/ % sans réponse	% correct of attempted % tentatives réussies
1	D	0.79	16.18	0.38	82.04	0.32	0.26	82.25
2	E	0.03	0.32	0.33	0.31	98.93	0.04	98.97
3	D	0.09	0.25	1.50	93.19	4.76	0.17	93.35
4	A	97.57	0.30	1.15	0.52	0.19	0.24	97.80
5	D	8.37	4.07	2.85	75.69	1.49	7.49	81.82
6	A	69.24	5.81	21.06	1.64	1.66	0.55	69.63
7	C	11.31	1.22	75.89	1.89	5.52	4.14	79.17
8	D	1.91	3.74	4.55	87.60	1.46	0.71	88.22
9	B	2.00	39.58	15.08	15.88	17.60	9.83	43.89
10	C	0.63	0.44	95.00	2.35	0.67	0.88	95.84
11	E	20.77	9.22	4.43	8.21	53.25	4.09	55.52
12	D	1.49	2.46	1.55	89.85	2.78	1.83	91.53
13	A	76.43	2.36	3.39	6.69	3.47	7.61	82.73
14	A	47.99	10.88	5.27	9.35	6.66	19.82	59.85
15	B	19.57	40.77	8.90	6.37	7.74	16.62	48.89
16	E	8.02	6.93	10.22	7.24	53.99	13.56	62.46
17	B	7.42	42.85	6.54	8.24	6.66	28.26	59.73
18	D	4.07	3.97	7.73	75.61	5.72	2.86	77.83
19	C	6.10	8.91	39.48	12.04	15.33	18.11	48.21
20	E	5.86	7.17	9.41	5.02	32.24	40.27	53.97
21	C	11.92	4.91	28.08	17.93	21.49	15.64	33.28
22	E	12.12	9.79	11.16	7.16	26.25	33.47	39.47
23	B	8.99	9.54	30.07	9.26	4.59	37.52	15.27
24	B	6.40	10.57	8.75	8.40	12.05	53.80	22.87
25	D	7.07	9.33	9.36	6.89	7.62	59.69	17.10

Number of Contestants / Nombre de concurrents: 20958

Average mark / Note moyenne: 90.00

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

#	Correct Answer/ Bonne Réponse	A	B	C	D	E	% not attempted/ % sans réponse	% correct of attempted % tentatives réussies
1	A	98.18	1.15	0.07	0.10	0.25	0.18	98.36
2	E	0.05	0.34	0.27	0.24	98.99	0.05	99.04
3	C	0.24	0.18	95.05	1.44	2.80	0.23	95.27
4	D	2.72	1.18	1.22	93.38	0.12	1.32	94.63
5	A	88.33	11.00	0.17	0.14	0.07	0.23	88.54
6	D	5.36	3.33	4.78	79.70	0.67	6.10	84.88
7	E	3.41	9.04	4.63	1.29	75.75	5.83	80.44
8	B	4.60	72.59	5.66	10.38	1.45	5.27	76.63
9	D	0.87	1.59	1.04	93.42	2.00	1.02	94.38
10	A	78.17	4.16	3.12	4.30	4.70	5.50	82.72
11	C	1.20	4.70	75.44	12.04	2.50	4.07	78.64
12	C	0.52	2.91	93.89	1.70	0.47	0.46	94.32
13	E	3.80	1.76	2.33	1.30	88.79	1.96	90.57
14	D	5.10	8.75	8.67	51.93	11.56	13.93	60.33
15	A	59.11	10.16	6.39	10.88	3.21	10.19	65.82
16	B	1.70	38.59	2.61	19.62	20.90	16.53	46.23
17	C	9.17	17.24	34.82	7.68	4.94	26.10	47.12
18	B	11.83	34.32	9.28	3.81	6.47	34.24	52.18
19	D	4.46	10.38	9.68	19.49	7.14	48.79	38.05
20	B	14.37	28.63	8.08	6.71	6.17	35.97	44.72
21	E	4.56	5.95	9.05	16.72	16.80	46.87	31.62
22	E	5.45	4.27	11.52	16.53	20.25	41.92	34.87
23	A	14.57	7.39	30.68	5.04	4.07	38.20	23.57
24	B	10.01	9.87	8.89	14.11	6.71	50.36	19.88
25	C	5.36	6.52	7.78	5.49	3.51	71.28	27.08

Number of Contestants / Nombre de concurrents: 17792

Average mark / Note moyenne: 85.10

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

#	Correct Answer/ Bonne Réponse	A	B	C	D	E	% not attempted/ % sans réponse	% correct of attempted % tentatives réussies
1	D	9.98	0.09	0.08	89.70	0.11	0.02	89.72
2	E	0.68	0.13	0.95	0.09	98.07	0.06	98.12
3	C	0.65	3.76	92.24	2.07	0.38	0.87	93.05
4	B	1.07	92.54	1.14	3.01	0.64	1.58	94.02
5	A	83.37	9.46	2.44	1.55	1.50	1.65	84.76
6	A	93.29	1.79	2.81	0.58	0.88	0.62	93.88
7	D	1.33	8.16	6.54	80.96	2.40	0.58	81.43
8	C	0.75	3.93	80.01	9.70	2.06	3.53	82.94
9	C	1.41	2.07	52.56	18.04	13.57	12.33	59.95
10	E	11.40	3.94	2.24	2.16	73.50	6.73	78.81
11	D	0.61	0.39	15.82	72.54	7.80	2.82	74.65
12	C	2.84	18.68	44.68	11.34	7.50	14.94	52.53
13	A	26.85	5.48	21.23	16.33	14.13	15.96	31.95
14	E	4.15	3.92	7.62	3.86	53.53	26.89	73.22
15	B	8.52	66.38	14.33	5.41	1.41	3.92	69.09
16	C	6.90	17.85	41.81	7.02	4.46	21.95	53.56
17	B	11.69	28.01	11.07	6.51	4.99	37.70	44.97
18	B	12.91	37.13	6.24	5.11	4.43	34.16	56.39
19	A	66.78	2.80	4.34	3.05	4.47	18.53	81.97
20	A	15.61	18.29	9.02	7.46	4.58	45.03	28.39
21	D	7.75	7.78	28.12	26.65	6.40	23.26	34.73
22	E	4.78	8.76	5.64	11.56	12.75	56.49	29.30
23	D	2.51	5.91	11.61	19.12	4.41	56.42	43.86
24	D	5.16	7.46	8.20	5.14	4.90	69.12	16.64
25	C	4.74	10.49	7.82	4.86	4.15	67.91	24.38

Student Rankings

Classements des élèves

Score/ Note	Pascal Rank/ Position	Cayley Rank/ Position	Fermat Rank/ Position	Score/ Note	Pascal Rank/ Position	Cayley Rank/ Position	Fermat Rank/ Position
150	1	1	1	99	7651	5702	3648
149				98	8043	5948	3871
148				97	8396	6457	4119
147				96	8828	6775	4400
146				95	9216	7310	4683
145	6		4	94	9703	7671	4961
144	8	20	6	93	10085	8254	5266
143				92	10543	8624	5593
142	20	54	13	91	10989	9135	5900
141				90	11411	9490	6233
140	39	90		89	11825	9945	6557
139	41	93	28	88	12322	10384	6941
138	48	95	33	87	12755	10905	7275
137	79	139	62	86	13225	11285	7608
136	93	140	63	85	13690	11734	7930
135				84	14158	12123	8261
134	145	214	81	83	14663	12578	8544
133	219	251	113	82	15139	12980	8925
132	240	257	119	81	15544	13365	9254
131	287	310	186	80	15995	13746	9557
130	321	319	189	79	16401	14099	9888
129	478	395	217	78	16835	14420	10194
128	527	399	229	77	17289	14754	10568
127	662	476	272	76	17690	15058	10908
126	713	481	288	75	18093	15292	11184
125	857	584	362	74	18451	15532	11478
124	958	598	378	73	18804	15798	11762
123	1121	703	441	72	19185	16045	12045
122	1234	718	455	71	19566	16290	12385
121	1437	857	534	70	19946	16501	12648
120	1604	873	583	69	20270	16685	12897
119	1839	1035	694	68	20562	16885	13106
118	2001	1061	737	67	20838	17060	13315
117	2204	1253	822	66	21153	17225	13557
116	2377	1280	873	65	21449	17370	13784
115	2609	1469	989	64	21713	17498	13990
114	2838	1513	1066	63	21978	17630	14172
113	3093	1777	1223	62	22202	17775	14327
112	3347	1818	1271	61	22463	17882	14474
111	3629	2099	1446	60	22693	17989	14657
110	3899	2171	1519	59	22891	18083	14807
109	4183	2482	1678	58	23075	18170	14921
108	4522	2563	1782	57	23268	18253	15023
107	4831	2994	1991	56	23450	18330	15125
106	5175	3104	2138	55	23632	18415	15243
105	5476	3536	2364	54	23779	18473	15350
104	5814	3667	2503	53	23929	18563	15427
103	6153	4120	2741	52	24059	18615	15506
102	6550	4316	2935	51	24193	18668	15577
101	6888	4904	3188	50	24296	18715	15671
100	7311	5121	3388	49	24407	18762	15739

Score/ Note	Pascal Rank/ Position	Cayley Rank/ Position	Fermat Rank/ Position
48	24487	18803	15787
47	24591	18840	15834
46	24668	18875	15875
45	24725	18895	15920
44	24798	18919	15949
43	24847	18935	15982
42	24900	18953	16013
41	24963	18976	16044
40	25014	18992	16074
39	25044	19009	16093
38	25082	19020	16110
37	25117	19028	16128
36	25148	19041	16141
35	25168	19050	16158
34	25183	19057	16171
33	25196	19063	16176
32	25208	19068	16184
31	25224	19077	16194
30	25243	19083	16203
29	25255	19090	16206
28	25263	19093	16212
27	25275	19095	16215
26	25282	19096	16217
25	25292	19097	16220
24	25304	19102	16225
23	25309	19104	16228
22	25312	19106	16230
21	25317	19108	16231
20	25323	19109	16236
19	25328		
18			
17	25329		16240
16	25330	19110	
15	25332		16241
14			
13			
12			16243
11	25334		16244
10	25336		

N.B. These rankings pertain to official contestants only /

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

Scores/ Notes	Pascal Ranks/ Positions	Cayley Ranks/ Positions	Fermat Ranks/ Positions
440 - 450		1 - 2	
430 - 439		3 - 10	
420 - 429	1 - 5	11 - 23	1 - 2
410 - 419	6 - 19	24 - 33	3 - 5
400 - 409	20 - 47	34 - 50	6 - 20
390 - 399	48 - 80	51 - 70	21 - 42
380 - 389	81 - 146	71 - 96	43 - 64
370 - 379	147 - 193	97 - 125	65 - 89
360 - 369	194 - 261	126 - 163	90 - 125
350 - 359	262 - 351	164 - 225	126 - 163
340 - 349	352 - 441	227 - 289	164 - 210
330 - 339	442 - 535	290 - 380	211 - 282
320 - 329	536 - 615	381 - 489	283 - 333
310 - 319	616 - 701	490 - 594	334 - 415
300 - 309	702 - 786	595 - 679	416 - 490

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

Pascal Contest / Concours Pascal: 1049

Cayley Contest / Concours Cayley: 966

Fermat Contest / Concours Fermat: 958



2009
Results

2009
Résultats

Pascal Contest
(Grade 9)

Concours Pascal
(9^e année – Sec. III)

Cayley Contest
(Grade 10)

Concours Cayley
(10^e année – Sec. IV)

Fermat Contest
(Grade 11)

Concours Fermat
(11^e année – Sec. V)

Pascal Contest Honour Rolls
Palmarès pour le concours Pascal

2009
Pascal Contest/Concours Pascal
Team List/Palmarès d'équipes

Rank/ Rang	School/ École	City/Ville	Score/Note
1	University of Toronto Schools	Toronto	427
2	College Jean de Brebeuf	Montreal	424
3	Walter Murray C.I.	Saskatoon	422
4	Glenforest S.S.	Mississauga	421
5	Colonel By S.S.	Gloucester	420
6	Moscrop S.S.	Burnaby	418
7	Lord Byng S.S.	Vancouver	417
8	Bayview S.S.	Richmond Hill	416
8	Acadia Jr. H.S.	Winnipeg	416
10	Sir Winston Churchill S.S.	Vancouver	415
10	Mount Douglas S.S.	Victoria	415
10	Burnaby South S.S.	Burnaby	415
13	Lisgar C.I.	Ottawa	414
13	Vernon Barford School	Edmonton	414
15	Richmond Hill H.S.	Richmond Hill	412
16	Burnaby North S.S.	Burnaby	411
16	St. George's School	Vancouver	411
18	Markham D.H.S.	Markham	410
18	John Campbell P.S.	Windsor	410
20	St. Theresa of Lisieux C.H.S.	Richmond Hill	409
21	St. Andrews J.H.S.	North York	408
21	Burnaby Mountain S.S.	Burnaby	408
21	Northern S.S.	Toronto	408
21	St. Michael's Univ. School	Victoria	408
25	Thornhill S.S.	Thornhill	407
25	St. John's-Ravenscourt School	Winnipeg	407
27	College St. Charles-Garnier	Quebec	406
27	Waterloo C.I.	Waterloo	406
29	Richmond S.S.	Richmond	405
29	Victoria Park C.I.	North York	405
29	West Vancouver S.S.	West Vancouver	405
32	R.E. Mountain S.S.	Langley	404
32	Zion Heights Jr. H.S.	North York	404
32	Marc Garneau C.I.	North York	404
35	North Toronto C.I.	Toronto	403
35	Vincent Massey S.S.	Windsor	403
37	Sir John A. Macdonald S.S.	Waterloo	402
37	Fredericton H.S.	Fredericton	402
37	Merivale H.S.	Nepean	402
37	Bell H.S.	Nepean	402
37	Queen Elizabeth H.S.	Calgary	402
42	Unionville H.S.	Markham	401
43	Crescent School	North York	400
43	Kitchener-Waterloo Bilingual School	Waterloo	400
43	Port Moody Sr. S.S.	Port Moody	400
43	R.C. Palmer S.S.	Richmond	400
43	John Ware Jr. H.S.	Calgary	400
48	College St. Alexandre	Gatineau	399
48	The Woodlands School	Mississauga	399
48	Sir John A. Macdonald C.I.	Scarborough	399
51	H.J. Cambie S.S.	Richmond	398
51	Pleasant View Jr. H.S.	North York	398
51	Pinetree S.S.	Coquitlam	398
51	William Lyon Mackenzie C.I.	North York	398
51	Don Mills C.I.	North York	398

2009
Pascal Contest/Concours Pascal
Student Rankings/Palmarès d'étudiants

Name/Nom	School/École	Location/ Endroit	Grade/Niveau
Group I/Groupe I			
Scores/Notes 150 - 146			
DONG	ANQI	Walter Murray C.I.	Saskatoon 9
LI	ANDY	Moscrop S.S.	Burnaby 9
NASSIF	MATHIEU	College Jean de Brebeuf	Montreal 9
TA	COLIN	Windermere S.S.	Vancouver 9
TANG	HENG	Bayview S.S.	Richmond Hill 9

Group II/Groupe II			
Scores/Notes 145 - 141			
BAHRY	MATTHEW	Lawrence Park C.I.	Toronto 9
CHANGHAO	GU	Meadowvale S.S.	Mississauga 9
CHEN	CRYSTAL		North York 7
CHIU	JASON	St. Michael's Univ. School	Victoria 9
CLYSDALE	DONALD	Colonel By S.S.	Gloucester 9
EISA	KEVIN	St. Marcellinus S.S.	Mississauga 9
FEHR	LUKAS	Walter Murray C.I.	Saskatoon 9
FELDMAN	JOSHUA	University of Toronto Schools	Toronto 8
FENG	BILL	Lord Byng S.S.	Vancouver 9
HU	ABBY	North Park C.I.	Brantford 9
HUANG	HAIXU	St. Andrews J.H.S.	North York 9
HUNTER	ISAAC	Eden H.S.	St Catharines 9
JONES	JACK	Mount Douglas S.S.	Victoria 9
JU	CHELSEY		North York 9
KNYAZHEVSKIY	SASHA	St. Theresa of Lisieux C.H.S.	Richmond Hill 9
LI	ANG	Glenforest S.S.	Mississauga 9
LIU	HENRY	Sir Winston Churchill S.S.	Vancouver 9
LUONG	VINCENT	Henry Kelsey Sr. P.S.	Scarborough 8
MARTEL	ETIENNE	College St. Charles-Garnier	Quebec 9
PARK	JOHN	Pinetree S.S.	Coquitlam 9
PIAO	ELSIE	Burnaby South S.S.	Burnaby 9
SHI	NIKI		North York 9
SITHAMPARAPILL	ARUN	Markham D.H.S.	Markham 9
SONG	GEOFFRY	Lisgar C.I.	Ottawa 9
SONG	RICHARD	Richmond Hill H.S.	Richmond Hill 9
TANG	AM Y	College St. Louis	Lasalle 9
WANG	MIKE	Sir John A. Macdonald C.I.	Scarborough 9
WEDMAN	COLE	Vernon Barford School	Edmonton 9
WU	SHUYI	Acadia Jr. H.S.	Winnipeg 8
XU	BEN	Eric Hamber S.S.	Vancouver 9
ZHANG	WEIWEI	John Campbell P.S.	Windsor 8
ZHOU	KEVIN	Woburn C.I.	Scarborough 9
ZUNG	JOSHUA	University of Toronto Schools	Toronto 8

Group III/Groupe III			
Scores/Notes 140 - 138			
BANCROFT	MARK	University of Toronto Schools	Toronto 8
CAMPBELL	VIVIAN	St. Mary's H.S.	Owen Sound 9
CHAN	MICHAEL C	Thornhill S.S.	Thornhill 9
CHEN	JANE	Don Mills C.I.	North York 9
CHOI	DAVID	St. George's School	Vancouver 9
CHU	TIMMY	R.C. Palmer S.S.	Richmond 8
DOWNING	TRISTAN	Earl Marriott S.S.	Surrey 9
FENG	YUANCHEN	Elboya Jr. H.S.	Calgary 9
FONG	EMILY	Glenforest S.S.	Mississauga 9

2009
Pascal Contest/Concours Pascal
Student Rankings/Palmarès d'étudiants

Group III/Groupe III

Scores/Notes 140 - 138

FUNG	HO YI	Glenforest S.S.	Mississauga	9
HOLCEK	ADRIANA	Rundle College Sr. H.S.	Calgary	9
HUI	DANIEL	Windsor S.S.	North Vancouver	9
KIM	EDWARD	Pleasant View Jr. H.S.	North York	9
LABACH	ALEX	Kitchener-Waterloo Bilingual School	Waterloo	8
LI	JEFF	College Jean de Brebeuf	Montreal	9
LIN	ERIC	St. Theresa of Lisieux C.H.S.	Richmond Hill	9
LIN	VICTOR	Point Grey S.S.	Vancouver	9
MA	YVONNE	Burnaby Mountain S.S.	Burnaby	9
MACDONALD	SYDNEY	University of Toronto Schools	Toronto	8
MAGALHAES	EDGAR	Corpus Christi C.S.S.	Burlington	9
NAM	JOHN	R.E. Mountain S.S.	Langley	9
NG	JACKY	Sisler H.S.	Winnipeg	9
RAIS	JASON	West Island College	Dollard-Des-Ormeaux	9
ROTH	ALLISON	Vernon Barford School	Edmonton	9
SALAZAR	JULIAN	John Ware Jr. H.S.	Calgary	9
SAULNIER MARCE	ALEXANDRE	College St. Charles-Garnier	Quebec	9
SHANNON	GEORGE	Cornwallis Sr. & Jr. H.S.	Halifax	9
SHRESTHA	AYUSH	Jarvis C.I.	Toronto	9
SOCHA	PETER	Gordon Graydon Memorial S.S.	Mississauga	9
SPORN	LEO	Lord Byng S.S.	Vancouver	9
STEVEN	XU	Fraser Heights S.S.	Surrey	9
WANG	YALE	Dr. J.M. Denison S.S.	Newmarket	9
WENG	WILLIAM	Unionville H.S.	Markham	9
WONG	ALEX	Colonel By S.S.	Gloucester	9
WONG	MELISSA	St. John's-Ravenscourt School	Winnipeg	9
WU	WINNY	Acadia Jr. H.S.	Winnipeg	9
XIAO	GRACE	Burnaby North S.S.	Burnaby	8
YOON	YEONG SEOB	Fredericton H.S.	Fredericton	9
ZHANG	LULU	Colonel By S.S.	Gloucester	9
ZHOU	WILLIAM	Britannia S.S.	Vancouver	8

Group IV/Groupe IV

Scores/Notes 137 - 135

BORISSOV	ANTON	Waterloo C.I.	Waterloo	9
BUTERIN	VITALIK	The Abelard School	Toronto	9
CAI	ZHONG	Queen Elizabeth H.S.	Calgary	9
CAO	RUN ZE	Martingrove C.I.	Etobicoke	9
CAO	VICTORIA	John Campbell P.S.	Windsor	8
CHANDAN	RAHUL	Merivale H.S.	Nepean	9
CHAUDHURY	ATEF	Port Moody Sr. S.S.	Port Moody	9
CHEN	JENNY	Sir John A. Macdonald S.S.	Waterloo	9
CHEN	ZIXIN	Clayton Park Jr. H.S.	Halifax	9
CHEUNG	KA KIT	H.J. Cambie S.S.	Richmond	8
CHOI	KEVIN	The Yorkland School	North York	9
DALY GRAFSTEIN	BEN	St. George's School	Vancouver	9
DIAO	BROOKE	North Toronto C.I.	Toronto	9
FAUCHER	SAMANTHA	Poly. des Appalaches	Sainte-Justine	9
GE	MELISSA	Appleby College	Oakville	9
GERSHON	ARIK	William Lyon Mackenzie C.I.	North York	9
GIRARD	JOEL	College St. Alexandre	Gatineau	9
GO	HARRY	R.E. Mountain S.S.	Langley	9
HAN	JOHO	Lord Byng S.S.	Vancouver	9
HUANG	ARTHUR	Agincourt C.I.	Scarborough	9
JAY RIENDEAU	GREGORY	Royal Vale School	Montreal	9
JEONG	SUNGMIN	Mount Douglas S.S.	Victoria	9

2009
Pascal Contest/Concours Pascal
Student Rankings/Palmarès d'étudiants

Group IV/Groupe IV

Scores/Notes 137 - 135

JIN	ANNIE	Burnaby Mountain S.S.	Burnaby	9
KERKVLIEET	SCOTT	East Elgin S.S.	Aylmer	9
KIM	YUNJAE	Lisgar C.I.	Ottawa	9
KWAN	CALEB	West Point Grey Academy	Vancouver	9
LEE	ALEX	Waterloo C.I.	Waterloo	8
LEE	JAMES	West Vancouver S.S.	West Vancouver	9
LIU	JACKIE	Sir Winston Churchill S.S.	Vancouver	9
LU	SEAN	Vincent Massey S.S.	Windsor	9
MACINTOSH	EMMA	Northern S.S.	Toronto	9
MARGOLIS	BARUCH	Bnei Akiva School	North York	9
METAXAS	ELIZABETH	Northern S.S.	Toronto	9
MICHA DJAJA	ANGELINA	Cardinal Carter Academy	North York	9
NG	CONRAD	St. George's School	Vancouver	9
PAKINGAN	LIAN	Francis Libermann C.H.S.	Scarborough	9
PLISZKA	KENJI	St. John's-Ravenscourt School	Winnipeg	9
QIN	HUNTER	Vincent Massey S.S.	Windsor	9
RANAI	STEPHANIE	Moscrop S.S.	Burnaby	9
SENTHIVASAN	SHREERAM	Marc Garneau C.I.	North York	9
SHANMUGARAJAH	ASHVINI	Victoria Park C.I.	North York	9
SHEWCHUK	GRAEME	Lorne Akins Jr. H.S.	St Albert	9
SHI	EVEREST	Burnaby North S.S.	Burnaby	9
SISSON	DESMOND	Queen Elizabeth H.S.	Calgary	8
SPENCE	CHRIS	Fort Saskatchewan Jr. H.S	Fort Saskatchewan	8
SUN	CINDY	Richmond Hill H.S.	Richmond Hill	9
SUN	OLIVER	R.C. Palmer S.S.	Richmond	9
TAN	JANE	Burnaby South S.S.	Burnaby	9
TCHEBOTAREVA	EKATERINA	Northern S.S.	Toronto	9
TEITELBAUM	JORDAN	Tanenbaum CHAT	Maple	9
TETREULT	ALEX	E.S. Macdonald-Cartier	Sudbury	9
TRAN	YEN	Merivale H.S.	Nepean	9
WAN	GEORGE	North Toronto C.I.	Toronto	9
WANG	DAVID	Richmond S.S.	Richmond	9
WANG	JEFFREY	Burnaby North S.S.	Burnaby	9
WANG	JERRY	Zion Heights Jr. H.S.	North York	9
WEI	LINDA	Eric Hamber S.S.	Vancouver	9
WHITE	PATRICK	Crescent School	North York	9
WU	BRYAN	Bell H.S.	Nepean	9
WU	WINSTON	Highland Jr. H.S.	North York	9
XIE	XIANG	Sir Winston Churchill S.S.	Vancouver	9
YANG	FEILONG	Burnaby South S.S.	Burnaby	9
YOUNG	SANDRO	Lisgar C.I.	Ottawa	9
ZHAO	BOYANG	College Jean de Brebeuf	Montreal	9
ZHENG	ALBERT	Highland Jr. H.S.	North York	9
ZONG	TED	Victoria Park C.I.	North York	9

Group V/Groupe V

Scores/Notes 134 - 132

ABARCA	NATHANIEL	Sisler H.S.	Winnipeg	9
ALEXANDER	INMAN	Leo Hayes H.S.	Fredericton	9
ANGKIRIWANG	PATRICIA	Crofton House School	Vancouver	9
ARSENAULT	CHRIS	Fredericton H.S.	Fredericton	9
BURNS	MILLARAY	West Vancouver S.S.	West Vancouver	9
BYUN	YOUNGMO	Sir William Mulock S.S.	Newmarket	9
CASELL	PAUL	All Saints C.S.S.	Whitby	9
CHAN	VASCO	Richmond S.S.	Richmond	9
CHANG	CHARLENE	Seaquam S.S.	Delta	9

2009
Pascal Contest/Concours Pascal
Student Rankings/Palmarès d'étudiants

Group V/Groupe V

Scores/Notes 134 - 132

CHEN	ANDREW	Gladstone Sec Montessori Prog	Vancouver	9
CHEN	GINGER	Richmond S.S.	Richmond	9
CHEN	JEFF	Maple Ridge S.S.	Maple Ridge	9
CHEN	KEVIN	Zion Heights Jr. H.S.	North York	9
CHIEN	KEVIN	Crescent School	North York	8
CHOI	HYUNGROK	Sentinel S.S.	West Vancouver	9
CHOI	JIWON	Langley Christian H.S.	Langley	9
CHONGHYUN	PYUN	Collingwood School	West Vancouver	9
CHU	GRACE	Eric Hamber S.S.	Vancouver	9
CIERPICH	ANNA	Philip Pocock C.S.S.	Mississauga	9
COLQUHOUN	SARAH	Bell H.S.	Nepean	9
DARLING	NICHOLAS	Mount Douglas S.S.	Victoria	9
DEBLOISB	FELIX	College St. Alexandre	Gatineau	9
DEE	MARIE	York House School	Vancouver	9
DEVANABANDA	BHAVANA	Marc Garneau C.I.	North York	9
DUO	DON	R.A. McMath S.S.	Richmond	9
DYLOCO	PETER	St. Michael's College School	York	9
FASH	LAURA	Colonel By S.S.	Gloucester	9
FRIEDMAN	TAL	Thornhill S.S.	Thornhill	9
FUNG	DAVID	Centennial Reg. H.S.	Greenfield Park	9
FUNG	KEVIN	Glenforest S.S.	Mississauga	9
GAO	LINI	Richmond Hill H.S.	Richmond Hill	9
GATEA	ALEXANDRU	Waterloo C.I.	Waterloo	8
GERMAIN	FELIX	College Laval	Laval	9
GOCO	JAMIE	Little Flower Academy	Vancouver	9
GU	HENRY	Zion Heights Jr. H.S.	North York	9
GUO	JOLIN	Dr. Norman Bethune C.I.	Scarborough	9
HATZIGEORGIOU	SEAN	Selwyn House School	Westmount	9
HOANG	ANDY	Burnaby Mountain S.S.	Burnaby	9
HONG	RIO	Elgin Park S.S.	Surrey	9
HORROCKS	JONATHAN	Immanuel Christian School	Charlottetown	9
HU	REBECCA	Templeton S.S.	Vancouver	9
HUANG	JIMMY	Crescent School	North York	9
HYUN	HEEJIN	Acadia Jr. H.S.	Winnipeg	9
IYE R	GURU	The Woodlands School	Mississauga	9
JIANG	JAMES	Burnaby North S.S.	Burnaby	9
JIN	HYE SEUNG	St. Thomas Aquinas H.S.	North Vancouver	8
JONATHAN	MAK	The Woodlands School	Mississauga	9
JUNG	CHRISTOPHE	St. Aloysius Gonzaga S.S.	Mississauga	9
KANG	SOYEON	Robert Bateman S.S.	Abbotsford	8
KIM	DANIEL	Fraser Valley Christian H.S.	Surrey	9
KIM	JAE WON	Southridge School	Surrey	9
KIM	WONJUN	West Vancouver S.S.	West Vancouver	9
KIM	YOUNGSUN	Semiahmoo S.S.	Surrey	9
KOU GIESBRECHT	SIAN	Waterloo C.I.	Waterloo	9
KWOK	JEREMY	Richmond S.S.	Richmond	9
LAI	JEREMY	Lorne Park S.S.	Mississauga	9
LAMOTHE	THOMAS	St. John's-Ravenscourt School	Winnipeg	9
LAU	MATTHEW	Peoples Christian Academy	North York	9
LEE	HUGO	Unionville H.S.	Markham	9
LEE	JESSICA	Maple Grove Elementary	Vancouver	8
LEE	KELVIN	H.J. Cambie S.S.	Richmond	9
LEE	SANDY	Southridge School	Surrey	9
LEUNG	MARTIN	Marc Garneau C.I.	North York	9
LI	NAIJIN	Sir William Mulock S.S.	Newmarket	9
LI	SIMON	Bell H.S.	Nepean	9
LIM	ANDREW	William Lyon Mackenzie C.I.	North York	9

2009
Pascal Contest/Concours Pascal
Student Rankings/Palmarès d'étudiants

Group V/Groupe V

Scores/Notes 134 - 132

LIN	DALE	St. Andrews J.H.S.	North York	9
LIN	LAWRENCE	Killarney S.S.	Vancouver	9
LIN	TAMI	Port Moody Sr. S.S.	Port Moody	9
LO	BRIAN	St. George's School	Vancouver	9
LUO	ROGER	St. Michael's Univ. School	Victoria	9
MA	EFFIE	Byrne Creek S.S.	Burnaby	9
MA	TERENCE	Sir John A. Macdonald S.S.	Waterloo	9
MAK	JEREMY	Steveston London S.S.	Richmond	9
MANUEL	TYNAN	Cedarbrae C.I.	Scarborough	9
MATTISON	BEN	Kitsilano S.S. (English)	Vancouver	9
MIHAI	TUDOR	La Citadelle Academy	North York	9
MILLS	CAMERON	St. John's College	Brantford	9
MITCHELTREE	CHRISTOPHE	Clayton Park Jr. H.S.	Halifax	9
MOORE TIMOTHY		Royal Vale School	Montreal	9
MORRIS	JESSICA	Colonel By S.S.	Gloucester	9
MUSGRAVE A	PAUL	West Carleton S.S.	Dunrobin	9
NG	JAMIEE	Victoria Park C.I.	North York	9
NGAI	DAVID	Upper Can Col-Upper School	Toronto	9
NGO	ANDREA	College Marie de France	Montreal	9
PAGE	ALEXANDR A	Branksome Hall	Toronto	8
PAN	DAVID	St. Patrick H.S.	Thunder Bay	9
PARK	REBECCA	Vernon Barford School	Edmonton	9
QIAN	ANNA	University Hill S.S.	Vancouver	9
QIU	MENGTING	University of Toronto Schools	Toronto	8
RONG	HELENA	J.N. Burnett S.S.	Richmond	9
SADIKOV	IGOR	College Jean de Brebeuf	Montreal	9
SCHNEIDER	CLARISSE	St. Ignatius Of Loyola H.S.	Oakville	9
SEKI	NICK	Maple Ridge S.S.	Maple Ridge	9
SHARIFI	AMIN	Bayview S.S.	Richmond Hill	9
SIU	KEVIN	Agincourt C.I.	Scarborough	9
SOHI	GURPREET	Seaquam S.S.	Delta	9
SONG	MYEONGJEEN	Brookwood S.S.	Langley	9
SPOONER	ERIK	Cochrane H.S.	Cochrane	9
STARZYNSKI	NATHAN	Colonel By S.S.	Gloucester	9
SUBAGIYO	ALIMUDA	E.S. des Sources	Dollard-des-Ormeaux	9
SUNDARARAJ	LILY	Lisgar C.I.	Ottawa	9
TAM	MANDY	Burnaby South S.S.	Burnaby	9
TAZUMI	SPENCER	University of Toronto Schools	Toronto	8
TOM	MICHAEL	Richmond Christian S.S.	Richmond	9
TSANG	ASHLEY	Lord Byng S.S.	Vancouver	8
VACHON	ANTOINE	College Durocher/St-Lambert	Saint-Lambert	9
VAN GAAL EN	JOLIEN	Medway H.S.	London	9
WANG	MILLY	Marc Garneau C.I.	North York	9
WANG	SITAN	Markham D.H.S.	Markham	9
WINNINGHAM	IAN	Dunbarton H.S.	Pickering	9
WONG	AMANDA	York House School	Vancouver	9
WONG	ANSON	Markham D.H.S.	Markham	9
WONG	SAMANTHA	Earl Haig S.S.	North York	9
WOODSTOCK	KATIE	Sir John A. Macdonald S.S.	Waterloo	9
WU	BRYAN	Pacific Academy	Surrey	9
WU	REX	Dr. Norman Bethune C.I.	Scarborough	9
WU	YIDI	John Campbell P.S.	Windsor	8
XIONG	BRENDA	Hugh McRoberts S.S.	Richmond	9
XU	ALLEN	Marc Garneau C.I.	North York	9
XU	ANNA	Marc Garneau C.I.	North York	9
YAM	HAROLD	Kitchener-Waterloo Bilingual School	Waterloo	8

2009
Pascal Contest/Concours Pascal
Student Rankings/Palmarès d'étudiants

Group V/Groupe V

Scores/Notes 134 - 132

YANG	JACK	Zion Heights Jr. H.S.	North York	9
YEE	BRANDON	Sacred Heart C.H.S.	Newmarket	9
YEP TOUMAYAN	SASHA	St. Thomas H.S.	Pointe-Claire	9
YIN	DAVID	Royal West Academy	Montreal-Ouest	9
YIN	JICHEN		North York	8
YOON	ERIN	Burnaby North S.S.	Burnaby	9
YOU	HYUH SEUNG	West Vancouver S.S.	West Vancouver	9
YU	MILO	Sir Winston Churchill S.S.	Vancouver	9
YU	RAYMOND	University of Toronto Schools	Toronto	8
ZHANG	DIFEI	Moscrop S.S.	Burnaby	8
ZHANG	EVER	Bishop Strachan School	Toronto	9
ZHANG	JACK	Bayview S.S.	Richmond Hill	9
ZHANG	TOM	Markham D.H.S.	Markham	9
ZHANG	TOMMY	Richmond S.S.	Richmond	9
ZHAO	BILL	Zion Heights Jr. H.S.	North York	9
ZHAO	SIMON	Johnston Heights Jr. S.S.	Surrey	9
ZHOU	BILL	Thornhill S.S.	Thornhill	9
ZHOU	JASON	Burnaby North S.S.	Burnaby	8
ZHU	YIMING	Zion Heights Jr. H.S.	North York	9
ZUO	LILLIAN	Vernon Barford School	Edmonton	9