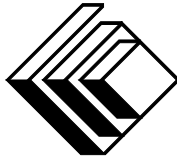


Canadian
Mathematics
Competition
An activity of the Centre for
Education in Mathematics and Computing,
University of Waterloo, Waterloo, Ontario



Concours
canadien de
mathématiques
Une activité du Centre d'éducation
en mathématiques et en informatique,
Université de Waterloo, Waterloo, Ontario

2005 Results

2005 Résultats

Gauss Contests (Grades 7 & 8)

Concours Gauss (7^e et 8^e années – Sec. I et II)

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Gerald Stephenson, St. Thomas More C.S.S., Hamilton, ON

Overall Comments

The Grade 7 and Grade 8 Gauss Contests are the first two in a series of mathematics contests created and administered by the Canadian Mathematics Competition. The 2005 offering of these Contests drew an enrollment of just over 87 000, mainly from Canadian schools, but also including some international schools.

The summary of results found in these pages is compiled from voluntarily submitted reporting forms. These results are based on returns representing just under half of the total of enrolled students, and so can be viewed as reasonably representative of the actual results.

It is with pleasure that I note that, while the median for the grade 7 contest slipped by a few points to 86.22, the median for the grade 8 contest jumped up 10 points to 98.77. Both results are very good, and we hope that future papers will continue to garner similar results.

For people who are familiar with past results, it is important that you notice that the intervals for reporting scores changed this year. Thus there really was not a significant decrease in the number of students in the top group, nor an increase in the bottom group, as compared to previous years.

As it has always been in the past, a primary goal in setting the contests is to provide a fun activity which also challenges students, and affords teachers with an opportunity to work with their students on a mathematical activity outside the normal classroom routine. We extend our thanks to those students and teachers who participated this year, and hope that you will all continue to be active in such activities.

On behalf of everyone involved with the CMC, I offer congratulations to all participants, and especially to those named in this report. I look forward to your names, and others, appearing in future lists of participants.

Barry Ferguson
Director, Canadian Mathematics Competition

Commentaires généraux

Les concours Gauss de 7^e et 8^e année (Sec. I et II) sont les deux premiers concours d'une série de concours de mathématiques créés et administrés par le Concours canadien de mathématiques. En 2005, ces concours ont mené à une inscription d'un peu plus de 87 000 étudiants, principalement décoles canadiennes mais incluant quelques écoles internationales.

Le sommaire des résultats, trouvé dans ces pages, est compilé de formulaires de rapport de résultats volontairement soumis. Ces résultats sont basés sur les retours représentant la moitié du total d'étudiants inscrits, et donc peut être vu comme représentant de façon raisonnable les résultats actuels.

C'est avec plaisir que je note que même si la moyenne pour le concours de 7^e année a glissé de quelques points à 86,22, la moyenne pour le concours de 8^e année a fait un saut de 10 points à 98,77. Les deux résultats sont très bons, et nous espérons que les concours futurs continueront à représenter des résultats similaires.

Pour les gens qui sont familiers avec les résultats passés, c'est important que vous remarquiez que les intervalles de résultats rapportés ont changé cette année. Ainsi, comparé aux années précédentes, il n'y a pas vraiment de diminution significative dans le nombre d'étudiants dans le premier groupe, ni une augmentation dans le groupe inférieur.

Comme cela a toujours été dans le passé, le but primaire du concours est de donner une activité amusante mais, qui défie aussi les étudiants et permet aux enseignants de travailler avec leurs étudiants sur une activité mathématique hors de la routine de salle de classe. Nous offrons nos remerciements aux étudiants et aux enseignants qui ont participé cette année et nous espérons que vous continuerez à être actifs dans de telles activités.

De la part de tout le monde impliqué dans le CCM, je félicite tous les participants, et surtout ceux nommés dans ce rapport. J'ai hâte de voir vos noms et ceux de d'autres, apparaître dans les listes futures de participants.

Barry Ferguson
Directeur, Concours canadien de mathématiques

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

| | Enrollment/ Inscription |
|---------------|----------------------------|
| NL | 1728 |
| NS | 1345 |
| NB | 517 |
| PE | 180 |
| QC | 7917 |
| ON | 49505 |
| MB | 1560 |
| SK | 410 |
| AB | 6525 |
| BC | 14900 |
| International | 2735 |
| Total | <hr/> 87322 |

**Statistics for Canada /
Statistiques pour le Canada**

Total number of students represented / Nombre d'élèves: 40224

Grade 7 / 7^e année (Sec. I)

| | |
|--|-------|
| Number of schools represented / Nombre d'écoles | 864 |
| Number of students represented / Nombre d'élèves | 20332 |
| Median / Médiane | 86.22 |

| Marks Points | Number of Students Nombre d'élèves | Approximate Percentage of Students Pourcentage approximatif du nombre d'élèves |
|-----------------|---------------------------------------|---|
| 136 – 150 | 549 | 2.70 |
| 121 – 135 | 1542 | 7.58 |
| 106 – 120 | 2889 | 14.21 |
| 91 – 105 | 4020 | 19.77 |
| 76 – 90 | 4316 | 21.23 |
| 61 – 75 | 3689 | 18.14 |
| ≤ 60 | 3327 | 16.36 |

Grade 8 / 8^e année (Sec. II)

| | |
|--|-------|
| Number of schools represented / Nombre d'écoles | 838 |
| Number of students represented / Nombre d'élèves | 19892 |
| Median / Médiane | 98.77 |

| Marks Points | Number of Students Nombre d'élèves | Approximate Percentage of Students Pourcentage approximatif du nombre d'élèves |
|-----------------|---------------------------------------|---|
| 136 – 150 | 973 | 4.89 |
| 121 – 135 | 2425 | 12.19 |
| 106 – 120 | 4486 | 22.55 |
| 91 – 105 | 4521 | 22.73 |
| 76 – 90 | 3477 | 17.48 |
| 61 – 75 | 2098 | 10.55 |
| ≤ 60 | 1912 | 9.61 |

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

Perfect scores of 150 / Notes parfaites de 150

| Name/Nom | School/École | Location/Endroit |
|----------------------|-------------------------------------|-------------------------|
| Josh Alman | University of Toronto Schools | Toronto, ON |
| Daniel Anderson | Henry Munro M.S. | Ottawa, ON |
| Emily Baker | Joan of Arc Academy | Ottawa, ON |
| Chris Barnes | Coronation P.S. | Oshawa, ON |
| Stephen Chung | Boundary Park E.S. | Surrey, BC |
| Leo Ding | University of Toronto Schools | Toronto, ON |
| Camden Filtness | Boundary Park E.S. | Surrey, BC |
| Kristijan Gjorgjevik | St. Michael's University School | Victoria, BC |
| Giuseppe Grande | Grant Park H.S. | Winnipeg, MB |
| Ian Hansen | William Berczy P.S. | Unionville, ON |
| Lucy He | William Berczy P.S. | Unionville, ON |
| Walker Horsfall | The Valley's Senior P.S. | Mississauga, ON |
| Ricky Hu | Coronation P.S. | Oshawa, ON |
| Daniel Ibanez | John G. Althouse M.S. | Toronto, ON |
| Kim Jin Hoo | Pushkin Private School | Thornhill, ON |
| James Jun | St. Michael's College School | Toronto, ON |
| Mark Karantayer | Toronto Jewish Academy OHR Menachem | Thornhill, ON |
| Nora Kettle | St. Joseph's E.S. | Cobourg, ON |
| Maryam Khattab | I.Q.R.A. Islamic School | Mississauga, ON |
| David Ko | Montclair Senior School | Oakville, ON |
| Tyler Kroetsch | Holy Rosary School | Waterloo, ON |
| Ishaan Kumar | Upper Canada College – Prep School | Toronto, ON |
| Daniel Kur | Toronto Jewish Academy OHR Menachem | Thornhill, ON |
| Paul Lee | Crescent Park E.S. | Surrey, BC |
| Robert Lee | Willowbrook P.S. | Thornhill, ON |
| Michael Léger | Ecole l'harmonie | Waterloo, ON |
| Julia Lévesque | Joan of Arc Academy | Ottawa, ON |
| Jamieson Lim | St. Paul's E.S. | Richmond, BC |
| Ellen Lloyd | John Ware Jr. H.S. | Calgary, AB |
| Leah MacKinnon | Calvin Park P.S. | Kingston, ON |
| Kris Misquitta | Holy Redeemer R.C.E.S. | Toronto, ON |
| Dan Muirhead | John G. Althouse M.S. | Toronto, ON |
| Glen Nelson | Lena Shaw E.S. | Surrey, BC |
| Aaron Pang | Crosby Heights P.S. | Richmond Hill, ON |
| Cristina Rosu | University of Toronto Schools | Toronto, ON |
| Tyson Sangster | Pope John Paul II School | Lindsay, ON |
| Mariya Sardarli | Westbrook School | Edmonton, AB |
| Jonathan Schneider | University of Toronto Schools | Toronto, ON |
| Andrew Shure | Coronation P.S. | Oshawa, ON |
| Mark Sobaszek | Lester B. Pearson C.E.S. | Brampton, ON |
| Harry Son | Bonnaccord E.S. | Surrey, BC |
| Jessica-Lynne Welton | Havergal College | Toronto, ON |
| Ruth Wong | Cummer Valley M.S. | North York, ON |
| Andrew Xue | Broadview P.S. | Ottawa, ON |
| Dorothy Yu | St. John's-Ravenscourt School | Winnipeg, MB |
| Jacky Yu | Woodland P.S. | Thornhill, ON |
| Roger Zhang | Osler School | Vancouver, BC |
| William Zhao | Lloyd George School | Vancouver, BC |
| Peter Zhi | Elia M.S. | North York, ON |
| Liwei Zhou | Hawthorne P.S. | Ottawa, ON |
| Jonathan Zung | University of Toronto Schools | Toronto, ON |

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

Perfect scores of 150

| Name/Nom | | School/École | Location/Endroit |
|-----------|---------------|--|--------------------|
| Sophie | Aladas | Joan of Arc Academy | Ottawa, ON |
| Hadi | Alasaad | Academie IBN-Sina | Montreal, QC |
| Alex | Alexa | Glashan P.S. | Ottawa, ON |
| Danane | Amine | Academie IBN-Sina | Montreal, QC |
| Pamela | Andrews | Stonepark Intermediate School | Charlottetown, PE |
| Jackie | Au | Ideal Mini School | Vancouver, BC |
| Arden | Azim | University of Toronto Schools | Toronto, ON |
| Robert | Bai | John G. Althouse M.S. | Toronto, ON |
| Alexandra | Baronide | Joan of Arc Academy | Ottawa, ON |
| Voloh | Ben | Glen Shields P.S. | Concord, ON |
| Alistair | Blacklock | Rockridge S.S. | West Vancouver, BC |
| Jennifer | Blight | St. Joseph's E.S. | Dryden, ON |
| Gauruv | Bose | Hawthorne P.S. | Ottawa, ON |
| James | Brulé | St. Joseph's E.S. | Cobourg, ON |
| Brian | But | Upper Canada College | Toronto, ON |
| Miles | Byworth | Henderson Avenue P.S. | Markham, ON |
| Sean | Cai | Tomken Road M.S. | Mississauga, ON |
| Warren | Carpani | Errol Village P.S. | Camlachie, ON |
| Jeremy | Chad | United Synagogue Day School - Bayview Campus | North York, ON |
| Son | Changkon | Greater Victoria Gauss Committee | Victoria, BC |
| Ananya | Chattoraj | Evergreen Park School | Moncton, NB |
| Mihai | Chelaru-Cente | University of Toronto Schools | Toronto, ON |
| Jenny | Chen | Fielding Drive P.S. | Ottawa, ON |
| Kevin | Chen | Burnaby South S.S. | Burnaby, BC |
| Wilson | Cheng | Town Centre Montessori Private Schools | Markham, ON |
| Allen | Chi | Seaquam S.S. | Delta, BC |
| Edward | Cho | Laurelwood P.S. | Waterloo, ON |
| Jeffrey | Choi | St. George's School | Vancouver, BC |
| Wilkie | Choi | Henry Kelsey Sr. P.S. | Agincourt, ON |
| Daniel | Chow | Burnaby South S.S. | Burnaby, BC |
| Derrick | Chow | St. Justin Martyr C.S. | Unionville, ON |
| Veronica | DiKun | Burnaby South S.S. | Burnaby, BC |
| Tony | Dong | Thomas Street M.S. | Mississauga, ON |
| Jovy | Eramela | Burnaby Mountain S.S. | Burnaby, BC |
| Joel | Foo | Richmond Christian School | Richmond, BC |
| Jack | Fu | St. George's School | Vancouver, BC |
| Milton | Fu | St. George's School | Vancouver, BC |
| Brian | Gracie | University of Toronto Schools | Toronto, ON |
| Megan | Gregor | Jack Chambers P.S. | London, ON |
| Jenny | Gu | University of Toronto Schools | Toronto, ON |
| Carrie | Guo | Macklin P.S. | Scarborough, ON |
| Cindy | Guo | Jesse Ketchum School | Toronto, ON |
| John | Han | St. Michael School | Oakville, ON |
| Philip | Hau | St. Justin Martyr C.S. | Unionville, ON |
| Kevin | He | Sir Winston Churchill S.S. | Vancouver, BC |
| Jeong | Ho | Holy Redeemer R.C.E.S. | Toronto, ON |
| Sofia | Hou | Broadview P.S. | Ottawa, ON |
| Jiun-Ruey | Hu | Cummer Valley M.S. | North York, ON |
| Mark | Iyengar | Francis Libermann E.S. | Scarborough, ON |
| Mitesh | Jani | Cedarwood P.S. | Markham, ON |
| David | Jin | St. Michael's College School | Toronto, ON |
| Zaakir | Jiwa | St. George's School | Vancouver, BC |
| Alex | Jung | Cummer Valley M.S. | North York, ON |

| Name/Nom | | School/École | Location/Endroit |
|------------------|----------------|--|------------------------------|
| Gregory | Kay | Netivot HaTorah Day School | Thornhill, ON |
| Caleb | Keung | Crosby Heights P.S. | Richmond Hill, ON |
| You Chia | Kuo | Cummer Valley M.S. | North York, ON |
| Mark | Lam | Eric Hamber S.S. | Vancouver, BC |
| Marc-André | Lapointe | Mont-Saint-Sacrement | St-Gabriel-de-Valcartier, QC |
| Anders | Lee | Milliken P.S. | Scarborough, ON |
| John | Lee | Southridge School | Surrey, BC |
| William | Lee | Unionville P.S. | Unionville, ON |
| Simeon | Leung | Vancouver Christian School | Vancouver, BC |
| Theodore | Lim | St. George's School | Vancouver, BC |
| Maninder | Longowal | Tempo School | Edmonton, AB |
| Aileen | Lu | The Woodlands School | Mississauga, ON |
| Edward | Lu | Town Centre Montessori Private Schools | Markham, ON |
| Keith | Lui | Eric Hamber S.S. | Vancouver, BC |
| Ruby | Lung | Havergal College | Toronto, ON |
| Kent | Ly | Charlton P.S. | Thornhill, ON |
| Jeongho | Lyu | Blessed Trinity School | North York, ON |
| Judith | Ma | University of Toronto Schools | Toronto, ON |
| Julianne | Macaulay | Jack Chambers P.S. | London, ON |
| Richard | Mack | Immaculata Regional H.S. | Kelowna, BC |
| François | Martel | Collège Saint-Alexandre | Gatineau, QC |
| Diana | Martin | Tomken Road M.S. | Mississauga, ON |
| Vinny | Mei | Semiahmoo S.S. | Surrey, BC |
| Yves | Miao | Evergreen Park School | Moncton, NB |
| Scott | Michelson | St. George's School | Vancouver, BC |
| Anna | Mo | Calvin Park P.S. | Kingston, ON |
| Christa Joy Lily | Moase | Collège St-Charles-Garnier | Quebec, QC |
| Devlin | Morrison | Sir George Simpson J.H.S. | St. Albert, AB |
| Vivek | Morzaria | William Berczy P.S. | Unionville, ON |
| Andrew | Nesta | Don Bosco School | Calgary, AB |
| Crystal | Ngai | York House School | Vancouver, BC |
| Theresa | Ngo | Avonmore School | Edmonton, AB |
| Beth | Otto | Avonmore School | Edmonton, AB |
| Avery | Ozburn | Havergal College | Toronto, ON |
| Anthony | Park | St. Anne C.E.S. | Richmond Hill, ON |
| Jason | Park | Sherwood Heights School | Mississauga, ON |
| Bhavika | Patel | University of Toronto Schools | Toronto, ON |
| Gregory | Pechersky | Toronto Jewish Academy OHR Menachem | Thornhill, ON |
| Ryan | Peressotti | Notre Dame E.S. | Niagara Falls, ON |
| Arthur | Pham | Forest Hill P.S. | Toronto, ON |
| Polina | Phokeev | David Ledder M.S. | Mississauga, ON |
| Jean-Robert | Pimm-Dupuch | Ashbury College | Ottawa, ON |
| Adam | Prins | Greenbriar Sr. P.S. | Brampton, ON |
| Sammy | Ptasznik | United Synagogue Day School - Bayview Campus | North York, ON |
| David | Robinson | Webber Academy | Calgary, AB |
| Boris | Shang | Semiahmoo S.S. | Surrey, BC |
| Danny | Shi | Windermere S.S. | Vancouver, BC |
| Joy | Shi | J. T. Tuck P.S. | Burlington, ON |
| Jason | Song | Fraser Heights S.S. | Surrey, BC |
| Quinn | Spicker | Fraser Heights S.S. | Surrey, BC |
| James | Sproul | Crescent School | Willowdale, ON |
| Chen | Sun | Orchard Park P.S. | London, ON |
| Eric | Szeto | David Thompson S.S. | Vancouver, BC |
| Jonathan | Tam | Crescent School | Willowdale, ON |
| Aayush | Tandon | The Valley's Senior P.S. | Mississauga, ON |
| Thushanth | Thanikasegaran | St. Margaret's P.S. | West Hill, ON |

| Name/Nom | | School/École | Location/Endroit |
|-----------------|-------------|------------------------------------|-------------------------|
| Nitharshan | Thevathasan | Ontario Int'l Institute | Scarborough, ON |
| Spencer | Thompson | Upper Canada College | Toronto, ON |
| Kevin | Tong | Burnaby Mountain S.S. | Burnaby, BC |
| Sarah | Truong | University of Toronto Schools | Toronto, ON |
| Amanda | Tu | Southridge School | Surrey, BC |
| Julie | Van | Lower Canada College | Montreal, QC |
| Jonathan | Wai | Camilla Senior P.S. | Mississauga, ON |
| Wilson | Wai | University of Toronto Schools | Toronto, ON |
| Andrea | Wan | Dolphin Sr. P.S. | Mississauga, ON |
| Frank | Wang | Ramer Wood P.S. | Markham, ON |
| Linda | Wang | Burnaby South S.S. | Burnaby, BC |
| Scott | Wang | University of Toronto Schools | Toronto, ON |
| Nissi | Wei | Macklin P.S. | Scarborough, ON |
| Michael | Weingert | Matthews Hall | London, ON |
| Ryan | White | Calvin Park P.S. | Kingston, ON |
| Gabriel | Wong | St. George's School | Vancouver, BC |
| Jamie | Wong | Glashan P.S. | Ottawa, ON |
| Melanie | Wong | University of Toronto Schools | Toronto, ON |
| Sebastian | Wong | Yale S.S. | Abbotsford, BC |
| Kefan | Xie | Macklin P.S. | Scarborough, ON |
| Alan | Xu | Burnaby South S.S. | Burnaby, BC |
| Julie | Xu | F.E. Osborne J.H.S. | Calgary, AB |
| Han | Yan | University of Toronto Schools | Toronto, ON |
| Zeya | Yang | Henry Munro M.S. | Ottawa, ON |
| Tsviatana | Yatsevich | E.S. Paul Gérin Lajoie d'Outremont | Outremont, QC |
| Jeffrey | Yu | University of Toronto Schools | Toronto, ON |
| Richard | Yu | Forest Hill P.S. | Toronto, ON |
| Josh | Zehr | Tavistock P.S. | Tavistock, ON |
| Andrew | Zhang | Ramer Wood P.S. | Markham, ON |
| Bridget | Zhang | John G. Althouse M.S. | Toronto, ON |
| May | Zhang | Camilla Senior P.S. | Mississauga, ON |
| Steven | Zhang | Ecole Father Beauregard School | Fort McMurray, AB |
| Haonan | Zhou | J.B. Tyrrell Sr. P.S. | Toronto, ON |
| Fay | Zhu | Ryerson M.S. | Hamilton, ON |
| Zimu | Zhu | Cummer Valley M.S. | North York, ON |

**Perfect scores of 150 for Grade 7 Students /
Notes parfaites de 150 pour les élèves de 7^e année (Sec. I)**

| Name/Nom | | School/École | Location/Endroit |
|-----------------|-------------|---|-----------------------------|
| Gaurav | Ahuja | I.C.A.E. | Troy, MI |
| Mary Krysllette | Bunyi | Mathematics Trainer's Guild Philippines | Zamboanga City, Philippines |
| Rigel Stewart | Espiritu | Mathematics Trainer's Guild Philippines | Zamboanga City, Philippines |
| Robin Galileo | Gene | Mathematics Trainer's Guild Philippines | Zamboanga City, Philippines |
| Neil | Gurram | I.C.A.E. | Troy, MI |
| Randy | Jai | I.C.A.E. | Troy, MI |
| Aaron | Lin | Chinese International | Braemar Hill, Hong Kong |
| Rishi | Shah | I.C.A.E. | Troy, MI |
| John Francis | Simeon | Mathematics Trainer's Guild Philippines | Zamboanga City, Philippines |
| Kennarol | Sychingping | Mathematics Trainer's Guild Philippines | Zamboanga City, Philippines |
| Kevin | Wu | I.C.A.E. | Troy, MI |

**Perfect scores of 150 for Grade 8 Students /
Notes parfaites de 150 pour les élèves de 8^e année (Sec. II)**

| Name/Nom | | School/École | Location/Endroit |
|-----------------|---------------|---|-----------------------------|
| Carlo Francisco | Adajar | Mathematics Trainer's Guild Philippines | Zamboanga City, Philippines |
| Radha | Arghal | I.C.A.E. | Troy, MI |
| Franchesca | Choi | Mathematics Trainer's Guild Philippines | Zamboanga City, Philippines |
| Andrew | Gulick | I.C.A.E. | Troy, MI |
| Alan | Huang | I.C.A.E. | Troy, MI |
| Sandhya | Kajeepeta | Abbott Middle School | West Bloomfield, MI |
| Sudharshan | Mohanram | I.C.A.E. | Troy, MI |
| Misha | Nasrollazadeh | Abbott Middle School | West Bloomfield, MI |
| Raymond | See | Chinese International | Braemar Hill, Hong Kong |
| Allen | Shen | I.C.A.E. | Troy, MI |
| Charles | Zhang | I.C.A.E. | Troy, MI |