

*The Canadian  
Mathematical Society*



*La Société mathématique  
du Canada*

In collaboration with / En collaboration avec

The CENTRE for EDUCATION  
in MATHEMATICS and COMPUTING

Faculty of Mathematics  
University of Waterloo  
Waterloo, Ontario, Canada N2L 3G1



Le CENTRE d'ÉDUCATION  
en MATHÉMATIQUES et en INFORMATIQUE

Faculté de Mathématiques  
Université de Waterloo  
Waterloo, Ontario, Canada N2L 3G1

*2002  
Results*

*Canadian  
Open  
Mathematics  
Challenge*

*2002  
Résultats*

*Défi  
ouvert  
canadien de  
mathématiques*

This document contains the results of the seventh Canadian Open Mathematics Challenge. The Open is a collaborative activity of the Canadian Mathematical Society and the Centre for Education in Mathematics and Computing at the University of Waterloo. Many people consider competitions as serving the primary goal of identifying bright students. Both of these sponsoring bodies, while accepting this view, believe that the more significant reason for holding competitions is to challenge students with an interesting set of mathematics problems which will stimulate an interest in mathematics. It is our intent that teachers will use these problems in their classroom and get the same sense of joy at having their students solve these problems that we had in creating them. At the same time if the problems are not used directly in the classroom we hope that they will be used in discussion and in trying to extend mathematical knowledge and know how. It gives us great pleasure when we hear that students have enjoyed working on the problems and have been successful in solving some of them. We do not expect students to be able to solve all the problems but rather our expectation is that students will actually work at the problems and have fun at doing them. They should also check the CEMC Website to see complete solutions when they are finished their work.

This paper was specifically designed to encourage participation for students from all grades. We were most gratified to see that a large number of younger students in Grades 9 and 10 wrote the paper. Questions A1 through A5 were specifically put together for students in these grades. In the rest of part A, the mirror question (A6) got a very positive response in the sense that students attempted the question but generally this question was found to be very difficult. A7 involved number properties and pattern recognition depending upon how it was done. Students handled this question amazingly well. A8 was a question that not a lot of students attempted successfully. In retrospect, we thought it was quite doable but students did not seem to make the connection between the number of divisors and the probability statement. This question was difficult because it combined a number of concepts with which students were not familiar. In part B, the first question was structured to be accessible to a majority of students. We wanted students to write out a systematic solution to each of the four parts of this question. We were hoping to see students progress in an orderly and systematic fashion. Judging from the solutions and the marks we think we achieved our goal. Question 2 in part B was not done very well because students did not have a good idea of proof and properties of divisibility. In part (a) of this question, students needed to know properties of divisibility involving 4 and 9. In this question, it would have been acceptable to proceed at least partially by trial and error. In part (b), this question was difficult especially the second part. It is important to realize that it cannot be done by showing it true for a number of examples. Question 3(a) was accessible to most students. This question was answered very well. In 3(b) there was a variety of nice solutions to this question. Generally speaking, it was good to see such well written solutions to this problem. The final question in part B was quite difficult and could be done in a variety of ways. There were a number of students who handled this question very successfully and those who did this question did it in a variety of ingenious ways. It turns out that this question is really not that hard. It is a fun question that requires nothing more than elementary circle theorems. It would be a useful exercise to work this question out after the contest is over and see if it could be done were a little more time available.

Le présent document contient les résultats du septième Défi ouvert canadien de mathématiques (DOCM) organisé par la Société canadienne de mathématiques et le Centre d'éducation en mathématiques et en informatique de l'Université de Waterloo. Nombreux sont ceux et celles qui perçoivent ces concours comme des épreuves de sélection des élèves les plus brillants. Même si les deux organismes parrains approuvent ce point de vue, ils croient toutefois qu'ils servent avant tout à lancer aux élèves un défi mathématique où ils doivent résoudre des ensembles de problèmes intéressants et à stimuler leur intérêt pour cette matière. Nous espérons que le personnel enseignant intégrera ces problèmes à leurs activités pédagogiques et éprouveront le même sentiment de satisfaction à voir progresser leurs élèves que celui qui a motivé les créateurs du concours. Si ce n'est pas le cas, nous espérons qu'ils feront l'objet de discussions destinées à approfondir les connaissances et le savoir-faire mathématiques. Nous nous réjouissons toujours d'apprendre que des élèves ont éprouvé un réel plaisir à tenter de résoudre ces problèmes et qu'ils y sont finalement parvenus. Nous ne nous attendons pas à ce que les élèves réussissent à résoudre tous les problèmes donnés mais bien qu'ils y travaillent tout en ayant du plaisir à tenter de trouver la solution. Nous les invitons ainsi à consulter le site Internet du Concours canadien de mathématiques où ils trouveront des solutions complètes aux questions.

Ce questionnaire a été spécialement conçu pour encourager les élèves de toutes les années d'études à participer au concours. Nous remarquons avec satisfaction qu'un grand nombre d'élèves plus jeunes, soit de la 9<sup>e</sup> et de la 10<sup>e</sup> année, y ont participé. Les questions A1 à A5 ont été spécialement préparées pour ces jeunes participants. Pour ce qui est du reste de la partie A, la question du miroir (A6) a obtenu une réponse très positive. En effet, les élèves ont tenté de la résoudre, malgré qu'elle ait donné beaucoup de fil à retordre à la plupart d'entre eux. La question A7 avait trait aux propriétés des nombres et à l'identification d'une structure selon sa présentation. Les élèves ont très bien répondu à cette question. Par contre, peu d'élèves ont réussi à résoudre la question A8. Nous pensions que cette question était faisable, mais il semble que les élèves n'ont pas fait le lien entre le nombre de diviseurs et l'énoncé des probabilités. Ce problème était difficile à résoudre, car il combinait un certain nombre de concepts avec lesquels les élèves n'étaient pas familiers. Dans la partie B, on avait structuré la première question de façon à ce qu'elle soit accessible à la majorité des élèves. Nous voulions que ceux-ci écrivent une solution systématique pour chacune des quatre parties de cette question et qu'ils progressent de façon ordonnée. Si nous nous fions aux solutions et aux résultats, il semble que nous avons atteint notre objectif. Par contre, la deuxième question de la partie B n'a pas obtenu un taux de réussite élevé, car les élèves n'ont pas bien compris la preuve et les propriétés de la divisibilité. Dans la partie (a) de cette question, les élèves devaient connaître les propriétés de la divisibilité des chiffres 4 et 9. Dans cette question, il aurait été acceptable de procéder, au moins partiellement, par essais et erreurs. Pour ce qui est de la partie (b), cette question était difficile à résoudre, surtout la deuxième partie. Il est important de réaliser qu'on ne pouvait y répondre en se contentant d'illustrer son exactitude par un nombre limité d'exemples. La question 3(a) était accessible à la plupart des élèves, et ceux-ci l'ont très bien solutionnée. Pour ce qui est de la question 3(b), les élèves y ont répondu en proposant diverses bonnes solutions. En général, nous avons été très heureux de constater à quel point les élèves ont bien répondu à cette question.

The number of registered competitors was 5238 with 4452 official candidates. We had 991 students who achieved a score of 50 or higher. This was a very good result for a competition of this type. The committee responsible for constructing this contest would like to thank those teachers who assist their students in contest preparation and who give willingly of their time and energy in school and classroom activities. Your efforts are very much appreciated.

Peter Crippin  
Director, The Centre for Education in Mathematics and Computing  
Chair, COMC

Ian VanderBurgh  
Problems Chair  
Canadian Mathematics Competition

La question finale de la partie B était particulièrement difficile à résoudre et pouvait être solutionnée de différentes façons. Un certain nombre d'élèves se sont très bien débrouillés, et ceux qui ont répondu à cette question ont fait preuve d'ingéniosité. Il semble qu'il n'était pas si difficile d'y répondre. Il s'agit d'une question amusante qui ne demande d'avoir recours qu'à des théorèmes circulaires élémentaires. Si on demandait aux élèves de répondre à cette question après le concours, on serait en mesure de vérifier s'il est plus facile d'y répondre en allouant plus de temps.

Le nombre de participants au concours s'élevait à 5238 dont 4452 candidats officiels; de ce nombre 991 ont obtenu un score égal ou supérieur à 50, ce qui est excellent pour ce genre de concours. Le comité chargé de l'élaboration du concours tient à remercier le personnel enseignant qui a investi son temps et son énergie à préparer les élèves, notamment par la tenue d'activités pédagogiques et scolaires. Sachez que nous apprécions cet engagement essentiel au succès du concours.

Peter Crippin  
Directeur, Centre d'éducation en mathématiques et en informatique  
Président, DOCM

Ian VanderBurgh  
Président, section des problèmes  
Concours canadien de mathématiques

Outstanding performance in the Canadian Open Mathematics Challenge (COMC) is recognized in three ways. First, at the discretion of the COMC Committee, Provincial Champions are named, each of whom receives a plaque, and the school of each Provincial Champion also receives a plaque. Second, at the Committee's discretion, a number of high-ranking students in each jurisdiction are awarded Gold Medals. Third, approximately the top fifty students in the COMC will be invited to write the Canadian Mathematical Olympiad (CMO) which will be held on March 26, 2003. Subscriptions to the Canadian Mathematical Society's internationally recognized problem solving journal "CRUX with MAYHEM" are awarded to the schools of those students invited to write the 2003 CMO.

Since outstanding performance in the CMO is one of the major factors in the selection of Canada's team to the annual International Mathematical Olympiad, the COMC provides the important first round in this selection process. Now in its seventh year, the COMC simultaneously provides a broadly accessible fall term activity that is a genuine stimulus to the mathematics programs in Canadian schools.

For students in grades 8 to 10 who wrote the 2002 COMC, the results are considered for invitations to 2003 Esso/CMS National Math Camp. The National Camp is designed primarily for younger Canadian students with at least two years remaining in high school and with the potential to compete at the mathematical olympiad level. Participation in the National Camp is by invitation only.

The Canadian Mathematical Society is privileged to cooperate with the Centre for Education in Mathematics and Computing and is indebted to the Centre and its staff for their invaluable support for the COMC. The Society and the COMC Committee wish to thank their colleagues, including many high school teachers, whose assistance is crucial to the success of this important national competition.

Dr. Christiane Rousseau  
President - Canadian Mathematical Society

Les résultats exceptionnels obtenus lors du Défi ouvert canadien de mathématiques (DOCM) sont soulignés de trois façons. Premièrement, à la discrétion du Comité du DOCM, les champions provinciaux sont nommés et reçoivent une plaque, tout comme leur école. Deuxièmement, et toujours à la discrétion du Comité, les élèves de chaque région qui ont obtenu des résultats élevés se voient remettre une médaille d'or. Troisièmement, la cinquantaine d'élèves ayant obtenu les meilleurs résultats au DOCM sont invités à l'Olympiade mathématique du Canada (OMC), qui sera tenue le 26 mars 2003. Les écoles des élèves invités à l'OMC 2003 reçoivent un abonnement gratuit à CRUX with MAYHEM, le journal de résolution de problèmes de renommée internationale de la SMC.

Comme les résultats à l'OMC sont l'un des principaux critères de sélection des membres de l'équipe qui représentera le Canada à l'Olympiade internationale de mathématiques, le DOCM constitue une première étape importante du processus de sélection. Lancé il y a sept ans, le DOCM est en outre une activité automnale ouverte à tous qui stimule grandement les élèves du pays.

Les résultats des élèves de la 8e à la 10e année qui ont participé au DOCM 2002 servent à déterminer qui sera invité au Camp national de mathématiques Esso/SMC. Le camp national vise principalement les jeunes élèves canadiens auxquels il reste au moins deux années d'études secondaires à terminer, et qui ont le potentiel nécessaire pour participer à une olympiade mathématique. La participation au Camp national se fait sur invitation seulement.

La Société mathématique du Canada est fière de collaborer avec le Centre d'éducation en mathématiques et en informatique, et est redevable au Centre et à son personnel de leur soutien inestimable au DOCM. La Société et le Comité du DOCM souhaitent remercier leurs collègues, notamment les nombreux enseignants du secondaire, dont l'aide est essentielle à la réussite de cet important concours national.

Christiane Rousseau,  
présidente de la Société mathématique du Canada

If you would like to print a copy of the 2002 Canadian Open Mathematics Challenge Contest paper or Solutions, please visit our web site at:

[http://www.cemc.uwaterloo.ca/past\\_contests/2002/2002\\_past\\_contests.html](http://www.cemc.uwaterloo.ca/past_contests/2002/2002_past_contests.html)

## Partie A

1. Très bien.  
Moyenne : 4,6
2. Il y a diverses façons d'aborder ce problème. La plupart des étudiants ont donné la bonne réponse à ce problème.  
Moyenne : 4,3
3. Des étudiants ont eu de la difficulté à se rappeler ou à déterminer les angles intérieurs d'un pentagone régulier. Une fois que les étudiants eurent trouvé un angle, la plupart ont été en mesure de terminer ce problème.  
Moyenne : 3,7
4. Ce problème était un peu plus difficile. Encore une fois, il y a diverses façons de s'attaquer à la question. Des étudiants n'ont pas reconnu que l'expression donnée était consacrée pour la somme des premiers termes  $n$  et, au lieu de cela, ils l'ont utilisée pour générer les termes.  
Moyenne : 3,1
5. Ce problème a été exceptionnellement bien réussi en raison de sa place dans le questionnaire.  
Moyenne : 4,6
6. Le problème A6 était un beau « problème d'application ». Comme il exigeait une certaine intuition physique et des habiletés mathématiques, il était raisonnablement difficile.  
Moyenne : 2,3
7. Les étudiants ont bien réussi ce problème difficile. Il semble y avoir eu une assez bonne connaissance de ce type de question.  
Bien joué!  
Moyenne : 3,1
8. De nombreux étudiants ont pu énoncer que  $M$  comporte 10 diviseurs, mais la plupart d'entre eux n'ont pu dépasser ce point. Le principal renseignement nécessaire ici portait sur la façon de calculer le nombre de diviseurs d'un entier naturel.  
Moyenne : 0,5

## Partie B

1. La majorité des étudiants qui avaient une certaine connaissance de la géométrie analytique étaient en mesure de résoudre ce problème. Il était conçu pour pousser les étudiants à de nombreux calculs et vérifier leur connaissance des nombreuses lignes de propriétés. La partie (d) était conçue pour exiger une certaine intuition après les calculs effectués dans les parties précédentes.  
Moyenne : 7,1
2. Cette année, le problème B2 était conçu pour être plus difficile que le problème B3 et il s'est effectivement révélé un peu plus difficile. Dans la partie (a), des étudiants ont reconnu que le chiffre  $B$  devait être pair, mais peu d'entre eux se sont rendus à ce point. Dans la partie (b)(i), en fait, peu d'étudiants ont pu raisonner de manière à parvenir à la conclusion correcte, mais ils ont eu encore plus de difficulté dans la partie (b)(ii). De nombreux autres ont commencé à supposer ce qu'ils voulaient prouver, ce qui les a rapidement mis dans le pétrin.  
Moyenne : 2,1
3. Cette année, Alphonse et Béatrice ont trouvé un ami! Comme toujours, la question-jeu reste tout à fait prisée et presque tout les étudiants ont essayé d'y répondre. La majorité d'entre eux ont été en mesure de répondre correctement à la partie (a). La partie (b) posait tout un défi alors qu'il fallait se rappeler de traiter avec tous les cas. Une approche soignée du problème consistait à combiner Béatrice et Carla en un seul joueur qui pourrait choisir 2, 3 ou 4 billes à son tour avec Alphonse qui pourrait toujours choisir 1 ou 2 billes.  
Moyenne : 3,2
4. Le dernier problème du Défi ouvert canadien de mathématiques 2002 posait tout un défi. Il a été tout à fait encourageant de voir une variété de solutions différentes apparaître chez les meilleurs candidats. Ce problème présente la caractéristique supplémentaire, après plusieurs heures de travail, que vous pouvez trouver une solution d'une demi page!  
Moyenne : 0,3

**Part A**

1. Very well done.  
Average: 4.6
2. There were many different ways to approach this problem. The vast majority of students got the correct answer here.  
Average: 4.3
3. Some students had trouble either remembering or determining the interior angles of a regular pentagon. Once students came up with an angle, most were able to finish this off.  
Average: 3.7
4. This problem was a fair bit harder. Again, there were several different ways to tackle this question. Some students did not recognize that the expression given was for the sum of the first  $n$  terms, and instead used this to generate the terms.  
Average: 3.1
5. This problem was exceptionally well done for this place on the paper.  
Average: 4.6
6. Problem A6 was a nice "application" problem. It required some physical intuition as well as mathematical skills, and so was reasonably hard.  
Average: 2.3
7. Students did quite well on this difficult problem. There appeared to be a fair amount of familiarity with this type of question. Well done!  
Average: 3.1
8. Many students were able to state that  $M$  has 10 divisors, but most were not able to proceed beyond this point. The main piece of knowledge required here was how to calculate the number of divisors of a positive integer.  
Average: 0.5

**Part B**

1. Most students who had some knowledge of analytic geometry were able to get through this problem. The problem was designed to lead students through a number of calculations and to test their knowledge of a number of properties of lines. Part (d) was designed to require some insight after the calculations in the previous parts.  
Average: 7.1
2. Problem B2 this year was designed to be harder than B3, and turned out to be quite a bit harder. In part (a), some students recognized that the digit  $B$  had to be even, but not many made it beyond this point. In part(b)(i), quite a few students were able to reason their way through to the correct conclusion, but then had more trouble in part (b)(ii). Many other students started out assuming what they wanted to prove, which got them quickly into trouble.  
Average: 2.1
3. This year, Alphonse and Beryl found a friend! As always, the game question remains quite popular and was attempted by almost everyone. Most were able to get part (a) correctly. Part (b) was quite challenging to get completely through while remembering to deal with all of the cases. A neat approach to this problem was to combine Beryl and Colleen into one player (Berleen?) who could choose 2, 3 or 4 marbles on her turn, with Alphonse still only being able to choose 1 or 2 marbles.  
Average: 3.2
4. The final problem of the 2002 COMC was quite a challenge. It was quite rewarding to see a variety of different solutions appear among the top candidates. This problem has the additional feature that after several hours of work on it, you can find a half-page solution!  
Average: 0.3

## Gagnants de la Médaille d'or pour la province    Provincial Gold Medal Plaque Winners

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| Name / Nom                                                                       |           | School / École                | Location / Endroit     |                   |
|----------------------------------------------------------------------------------|-----------|-------------------------------|------------------------|-------------------|
| Newfoundland Gold Medallist / Médaillé d'or pour Terre-Neuve                     |           |                               |                        |                   |
| Andrew                                                                           | Critch    | Clarenville Integrated H.S.   | Clarenville, NF        |                   |
| Prince Edward Island Gold Medallist / Médaillé d'or pour L'Île-Du-Prince-Édouard |           |                               |                        |                   |
| Keith                                                                            | Goddard   | Charlottetown Rural H.S.      | Charlottetown, PE      |                   |
| Nova Scotia Gold Medallist / Médaillé d'or pour la Nouvelle-Écosse               |           |                               |                        |                   |
| Alexander                                                                        | Jiang     | The Halifax Grammar School    | Halifax, NS            |                   |
| New Brunswick Gold Medallist / Médaillé d'or pour le Nouveau-Brunswick           |           |                               |                        |                   |
| Yi Hao                                                                           | Shen      | Saint John H.S.               | Saint John, NB         |                   |
| Quebec Gold Medallists / Médaillé d'or pour le Québec                            |           |                               |                        |                   |
| Eric                                                                             | Dallal    | Marianopolis College          | Montreal, QC           |                   |
| Ontario Gold Medallists / Médaillés d'or pour l'Ontario                          |           |                               |                        |                   |
| Toni                                                                             | Carlisle  | Lo-Ellen Park S.S.            | Sudbury, ON            | - Ontario North   |
| David                                                                            | Belanger  | Nicholson Catholic College    | Belleville, ON         | - Ontario East    |
| Nan                                                                              | Yang      | Birchmount Park C.I.          | Scarborough, ON        | - Metro           |
| Dongbo                                                                           | Yu        | Don Mills C.I.                | Don Mills, ON          | - Metro           |
| Nir                                                                              | Friedman  | Thornhill S.S.                | Thornhill, ON          | - Ontario Central |
| Heejune                                                                          | Jun       | St. Robert C.H.S.             | Thornhill, ON          | - Ontario Central |
| Ralph                                                                            | Furmaniak | A.B. Lucas S.S.               | London, ON             | - Ontario West    |
| John                                                                             | Sun       | Vincent Massey S.S.           | Windsor, ON            | - Ontario West    |
| Manitoba Gold Medallists / Médaillés d'or pour le Manitoba                       |           |                               |                        |                   |
| Liji                                                                             | Huang     | Portage Collegiate Institute  | Portage La Prairie, MB |                   |
| David                                                                            | Liu       | St. John's-Ravenscourt School | Winnipeg, MB           |                   |
| Saskatchewan Gold Medallist / Médaillé d'or pour la Saskatchewan                 |           |                               |                        |                   |
| William                                                                          | Truong    | Campbell C.I.                 | Regina, SK             |                   |
| Alberta Gold Medallist / Médaillé d'or pour l'Alberta                            |           |                               |                        |                   |
| Peter                                                                            | Zhang     | Sir Winston Churchill H.S.    | Calgary, AB            |                   |
| British Columbia Gold Medallist / Médaillé d'or pour la Colombie-Britannique     |           |                               |                        |                   |
| Alex                                                                             | Chou      | Semiahmoo S.S.                | Surrey, BC             |                   |
| Yukon Gold Medallist / Médaillé d'or pour la Yukon                               |           |                               |                        |                   |
| Ryan                                                                             | Sylvestre | F.H. Collins School           | Whitehorse, YT         |                   |

In addition to the gold medal and plaques awarded to provincial champions, up to nine medals are given in each region, at the discretion of the committee, to students who have achieved a significant score.

En plus des plaques de médaille d'or décernées aux champions provinciaux, un maximum de neuf médailles sont remises dans chacune des régions, à la discrétion du comité organisateur, aux étudiants qui ont obtenu des résultats satisfaisants.

Students are listed in alphabetical order within each group  
Dans chaque groupe, les élèves sont nommés en ordre alphabétique

| Name / Nom                                                                   |                | School / École              | Location / Endroit    |
|------------------------------------------------------------------------------|----------------|-----------------------------|-----------------------|
| <b>Prince Edward Island Medallists / Médailleurs L'Île-Du-Prince-Édouard</b> |                |                             |                       |
| David                                                                        | Collie         | Colonel Gray S.H.S.         | Charlottetown, PE     |
| Nadeem                                                                       | Shivji         | Charlottetown Rural H.S.    | Charlottetown, PE     |
| Heather                                                                      | Stewart        | Charlottetown Rural H.S.    | Charlottetown, PE     |
| Marcus                                                                       | Trenton        | Colonel Gray S.H.S.         | Charlottetown, PE     |
| <b>Newfoundland Medallists / Médailleurs Terre-Neuve</b>                     |                |                             |                       |
| Jennifer                                                                     | Graham         | Marystown Central H.S.      | Marystown, NF         |
| Gaetan                                                                       | Kenway         | Marystown Central H.S.      | Marystown, NF         |
| Kevin                                                                        | Li             | Herdman C.I.                | Corner Brook, NF      |
| Justin                                                                       | Rowsell        | Coaker Academy              | Summerford, NF        |
| <b>Nova Scotia Medallists / Médailleurs Nouvelle-Ecosse</b>                  |                |                             |                       |
| Louise                                                                       | Brennan        | Dr. John Hugh Gillis School | Antigonish, NS        |
| Ryan                                                                         | Brennan        | Dr. John Hugh Gillis School | Antigonish, NS        |
| Brock                                                                        | Brown          | Halifax West H.S.           | Dartmouth, NS         |
| Robert                                                                       | Embree         | Dr. John Hugh Gillis School | Antigonish, NS        |
| Kar Chun                                                                     | Lai            | Halifax West H.S.           | Dartmouth, NS         |
| Karen                                                                        | Li             | Queen Elizabeth H.S.        | Halifax, NS           |
| Rebecca                                                                      | Li             | Queen Elizabeth H.S.        | Halifax, NS           |
| Bretton                                                                      | Macdonald      | Halifax West H.S.           | Dartmouth, NS         |
| Benjamin                                                                     | Turnbull       | The Halifax Grammar School  | Halifax, NS           |
| <b>New Brunswick Medallists / Médailleurs Nouveau-Brunswick</b>              |                |                             |                       |
| Greg                                                                         | Costain        | Saint John H.S.             | Saint John, NB        |
| Emmanuel                                                                     | Elmajian       | Kennebecasis Valley H.S.    | Rothsay, NB           |
| Stuart                                                                       | Macgillivray   | Fredericton H.S.            | Fredericton, NB       |
| Matto                                                                        | Mildenberger   | Saint John H.S.             | Saint John, NB        |
| Tim                                                                          | Scribner       | Fredericton H.S.            | Fredericton, NB       |
| Andrea                                                                       | Spencer        | Fredericton H.S.            | Fredericton, NB       |
| Ying                                                                         | Tang           | Saint John H.S.             | Saint John, NB        |
| Bo Yang                                                                      | Yu             | Saint John H.S.             | Saint John, NB        |
| Imran                                                                        | Zaidi          | Saint John H.S.             | Saint John, NB        |
| <b>Quebec Medallists / Médailleurs Québec</b>                                |                |                             |                       |
| Isabelle                                                                     | Ascah Coallier | CEGEP Ahuntsic              | Montreal, QC          |
| Leonid                                                                       | Chindelevitch  | Marianopolis College        | Montreal, QC          |
| Felix                                                                        | Desrochers     | CEGEP Edouard-Montpetit     | Longueuil, QC         |
| Rong                                                                         | Feng           | Laurenhill Academy          | St. Laurent, QC       |
| Gabriel                                                                      | Gauthier       | Marianopolis College        | Montreal, QC          |
| Andre                                                                        | Mutchnik       | Marianopolis College        | Montreal, QC          |
| Karol                                                                        | Przybytkowski  | College Durocher/St-Lambert | St-Lambert, QC        |
| Huafei                                                                       | Sun            | Vanier College              | Ville St. Laurent, QC |
| Letao                                                                        | Wang           | Champlain Regional College  | St. Lambert, QC       |
| Tianxing                                                                     | Zhang          | Polyvalente Mgr. Richard    | Verdun, QC            |

**Ontario North Medallists / Médaillés Ontario-Nord**

|          |             |                           |                 |
|----------|-------------|---------------------------|-----------------|
| Brian    | Capodagli   | Lo-Ellen Park S.S.        | Sudbury, ON     |
| Andrew   | Hall        | Lockerby Composite School | Sudbury, ON     |
| David    | Jones       | St. Joseph's H.S.         | Barrie, ON      |
| Kevin    | Jurcik      | St. Ignatius H.S.         | Thunder Bay, ON |
| Melanie  | Langille    | Lo-Ellen Park S.S.        | Sudbury, ON     |
| Wijdan   | Malik       | Lo-Ellen Park S.S.        | Sudbury, ON     |
| Matthias | Melhorn Boe | St. Joseph-Scollard Hall  | North Bay, ON   |
| Siyan    | Tan         | Lockerby Composite School | Sudbury, ON     |
| Joel     | Zylberberg  | Lockerby Composite School | Sudbury, ON     |

**Ontario East Medallists / Médaillés Ontario-Est**

|           |           |                     |                  |
|-----------|-----------|---------------------|------------------|
| Sascha    | Adler     | Ashbury College     | Ottawa, ON       |
| Billy     | Ballik    | Bowmanville H.S.    | Bowmanville, ON  |
| Ryan      | Jung      | St. Peter's S.S.    | Peterborough, ON |
| Xiaoguang | Li        | Nepean H.S.         | Ottawa, ON       |
| Yi        | Liu       | Lisgar C.I.         | Ottawa, ON       |
| Justin    | Luo       | Earl of March S.S.  | Kanata, ON       |
| Ryan      | Marble    | Smiths Falls D.C.I. | Smiths Falls, ON |
| Velian    | Pandeliev | Nepean H.S.         | Ottawa, ON       |
| Antonio   | Sanchez   | St. Matthew H.S.    | Orleans, ON      |
| Yuanbin   | Tang      | Lisgar C.I.         | Ottawa, ON       |
| Cory      | Turner    | Trenton High School | Trenton, ON      |
| Ryan      | Zhou      | Adam Scott C.&V.I.  | Peterborough, ON |

**Ontario Metro Medallists / Médaillés Ontario-Metro**

|           |             |                               |                 |
|-----------|-------------|-------------------------------|-----------------|
| Olena     | Bormashenko | Don Mills C.I.                | Don Mills, ON   |
| Jeremy    | Green       | Richview C.I.                 | Etobicoke, ON   |
| Tianyi    | Han         | Woburn C.I.                   | Toronto, ON     |
| Jenny Yue | Jin         | Earl Haig S.S.                | North York, ON  |
| Keigo     | Kawaji      | Earl Haig S.S.                | North York, ON  |
| Janos     | Kramar      | University of Toronto Schools | Toronto, ON     |
| Ruohan    | Li          | Forest Hill C.I.              | Toronto, ON     |
| Jacob     | Tsimerman   | University of Toronto Schools | Toronto, ON     |
| Yehua     | Wei         | York Mills C.I.               | North York, ON  |
| Yang      | Yang        | Don Mills C.I.                | Don Mills, ON   |
| Ti        | Yin         | William Lyon Mackenzie C.I.   | Toronto, ON     |
| Matei     | Zaharia     | Jarvis C.I.                   | Toronto, ON     |
| Hang      | Zhang       | Albert Campbell C.I.          | Scarborough, ON |

**Ontario Central Medallists / Médaillés Ontario-Central**

|                |           |                     |                   |
|----------------|-----------|---------------------|-------------------|
| Allan          | Cai       | Bayview S. S.       | Richmond Hill, ON |
| Jaehun         | Kim       | Bayview S. S.       | Richmond Hill, ON |
| Jaeseung       | Kim       | Bayview S. S.       | Richmond Hill, ON |
| Tim            | Kuo       | Markham D.H.S.      | Markham, ON       |
| Kent           | Lam       | Thornhill S.S.      | Thornhill, ON     |
| Michael        | Lee       | The Woodlands S.S.  | Mississauga, ON   |
| Ng             | Lian Huan | Milliken Mills H.S. | Unionville, ON    |
| Hui Yu Raymond | Szeto     | Bayview S. S.       | Richmond Hill, ON |
| Zhengzheng     | Yang      | The Woodlands S.S.  | Mississauga, ON   |

**Provincial Medallists****Médailleurs Provinciaux****Ontario West Medallists / Médailleurs Ontario-Ouest**

|           |        |                                |               |
|-----------|--------|--------------------------------|---------------|
| Robert    | Biswas | Vincent Massey S.S.            | Windsor, ON   |
| Francis   | Chung  | A.B. Lucas S.S.                | London, ON    |
| Fan       | Feng   | Vincent Massey S.S.            | Windsor, ON   |
| Hyon      | Lee    | Vincent Massey S.S.            | Windsor, ON   |
| Rui       | Ma     | Vincent Massey S.S.            | Windsor, ON   |
| Jennifer  | Park   | Bluevale C.I.                  | Waterloo, ON  |
| Xingfang  | Wang   | Kitchener-Waterloo C.I. & V.I. | Kitchener, ON |
| Yifei     | Wang   | Vincent Massey S.S.            | Windsor, ON   |
| Shaun     | White  | Vincent Massey S.S.            | Windsor, ON   |
| Zhongying | Zho    | Vincent Massey S.S.            | Windsor, ON   |

**Manitoba Medallists / Médailleurs Manitoba**

|           |           |                               |              |
|-----------|-----------|-------------------------------|--------------|
| Rowan     | Doran     | St. John's-Ravenscourt School | Winnipeg, MB |
| Anna      | Dyck      | Westgate Mennonite C.I.       | Winnipeg, MB |
| Victor    | Gong      | Kelvin H.S.                   | Winnipeg, MB |
| Will      | Guest     | St. John's-Ravenscourt School | Winnipeg, MB |
| Michael   | Kryger    | Kelvin H.S.                   | Winnipeg, MB |
| Michael   | Lipnowski | St. John's-Ravenscourt School | Winnipeg, MB |
| David     | Mulder    | St. John's-Ravenscourt School | Winnipeg, MB |
| Alexander | Suen      | St. John's-Ravenscourt School | Winnipeg, MB |
| Evan      | Thompson  | St. John's-Ravenscourt School | Winnipeg, MB |

**Saskatchewan Medallists / Médailleurs Saskatchewan**

|           |           |                        |               |
|-----------|-----------|------------------------|---------------|
| Catherine | Fairbairn | Evan Hardy C.I.        | Saskatoon, SK |
| Jingyang  | Huang     | Aden Bowman C.I.       | Saskatoon, SK |
| Yao       | Ke        | Campbell C.I.          | Regina, SK    |
| Michael   | Klassen   | Bishop J. Mahoney H.S. | Saskatoon, SK |
| Tim       | Nyborg    | Evan Hardy C.I.        | Saskatoon, SK |
| Mark      | Paulsen   | Bishop J. Mahoney H.S. | Saskatoon, SK |
| Jason     | Sander    | Holy Cross H.S.        | Saskatoon, SK |
| Wallace   | Truong    | Campbell C.I.          | Regina, SK    |
| Si        | Zhang     | Aden Bowman C.I.       | Saskatoon, SK |

**Alberta Medallists / Médailleurs Alberta**

|             |          |                            |              |
|-------------|----------|----------------------------|--------------|
| Sunimal     | Fernando | St. Paul's Academy         | Okotoks, AB  |
| Jia         | Hu       | Harry Ainlay H.S.          | Edmonton, AB |
| Charles Zhi | Li       | Western Canada H.S.        | Calgary, AB  |
| Hongyi      | Li       | Sir Winston Churchill H.S. | Calgary, AB  |
| Radoslav    | Marinov  | Harry Ainlay H.S.          | Edmonton, AB |
| He          | Ren      | Western Canada H.S.        | Calgary, AB  |
| Sarah       | Sun      | Holy Trinity Academy       | Okotoks, AB  |
| Nathanael   | Wu       | Western Canada H.S.        | Calgary, AB  |
| Alice       | Yang     | Western Canada H.S.        | Calgary, AB  |

**British Columbia Medallists / Médaillés Colombie-Britannique**

|            |       |                            |                     |
|------------|-------|----------------------------|---------------------|
| Justin     | Chan  | Mount Douglas S.S.         | Victoria, BC        |
| Chen       | Huang | Sir Winston Churchill S.S. | Vancouver, BC       |
| Joe        | Hung  | David Thompson S.S.        | Vancouver, BC       |
| Tae Hun    | Lee   | Carson Graham S.S.         | North Vancouver, BC |
| Angela     | Lin   | Sir Winston Churchill S.S. | Vancouver, BC       |
| Yichuan    | Liu   | University Hill S.S.       | Vancouver, BC       |
| Kuan Chieh | Tseng | Yale S.S.                  | Abbotsford, BC      |
| Qian       | Wang  | Semiahmoo S.S.             | Surrey, BC          |
| Samuel     | Wong  | University Hill S.S.       | Vancouver, BC       |
| Nancy      | Zhang | Sir Winston Churchill S.S. | Vancouver, BC       |
| Allen      | Zhang | Burnaby South S.S.         | Burnaby, BC         |
| Jeff       | Zhao  | Eric Hamber S.S.           | Vancouver, BC       |

**Yukon Gold Medallist / Médaillés Yukon**

|         |            |                     |                |
|---------|------------|---------------------|----------------|
| Scott   | Berdahl    | F.H. Collins School | Whitehorse, YT |
| Reta    | Pyke       | F.H. Collins School | Whitehorse, YT |
| Patrick | Von Wiegen | F.H. Collins School | Whitehorse, YT |

Students are listed in alphabetical order within each group  
 Dans chaque groupe, les élèves sont nommés en ordre alphabétiques

| Name / Nom                            | School / École                 | Location / Endroit |
|---------------------------------------|--------------------------------|--------------------|
| <b>Group 1 Scores / Notes 78 - 80</b> |                                |                    |
| Olena Bormashenko                     | Don Mills C.I.                 | Don Mills, ON      |
| Ralph Furmaniak                       | A.B. Lucas S.S.                | London, ON         |
| John Sun                              | Vincent Massey S.S.            | Windsor, ON        |
| Nan Yang                              | Birchmount Park C.I.           | Scarborough, ON    |
| Dongbo Yu                             | Don Mills C.I.                 | Don Mills, ON      |
| Zhongying Zho                         | Vincent Massey S.S.            | Windsor, ON        |
| <b>Group 2 Scores / Notes 71 - 77</b> |                                |                    |
| Alex Chou                             | Semiahmoo S.S.                 | Surrey, BC         |
| Fan Feng                              | Vincent Massey S.S.            | Windsor, ON        |
| Tianyi Han                            | Woburn C.I.                    | Toronto, ON        |
| Jenny Yue Jin                         | Earl Haig S.S.                 | North York, ON     |
| Keigo Kawaji                          | Earl Haig S.S.                 | North York, ON     |
| Janos Kramar                          | University of Toronto Schools  | Toronto, ON        |
| Jacob Tsimerman                       | University of Toronto Schools  | Toronto, ON        |
| Yang Yang                             | Don Mills C.I.                 | Don Mills, ON      |
| Ti Yin                                | William Lyon Mackenzie C.I.    | Toronto, ON        |
| Lingkai Zeng                          | Edison H.S.                    | Edison, NJ         |
| Peter Zhang                           | Sir Winston Churchill H.S.     | Calgary, AB        |
| <b>Group 3 Scores / Notes 69 - 70</b> |                                |                    |
| David Belanger                        | Nicholson Catholic College     | Belleville, ON     |
| Robert Biswas                         | Vincent Massey S.S.            | Windsor, ON        |
| Francis Chung                         | A.B. Lucas S.S.                | London, ON         |
| Eric Dallal                           | Marianopolis College           | Montreal, QC       |
| Gabriel Gauthier                      | Marianopolis College           | Montreal, QC       |
| Jeremy Green                          | Richview C.I.                  | Etobicoke, ON      |
| Hyon Lee                              | Vincent Massey S.S.            | Windsor, ON        |
| Charles Zhi Li                        | Western Canada H.S.            | Calgary, AB        |
| Ruohan Li                             | Forest Hill C.I.               | Toronto, ON        |
| Rui Ma                                | Vincent Massey S.S.            | Windsor, ON        |
| Jennifer Park                         | Bluevale C.I.                  | Waterloo, ON       |
| Xingfang Wang                         | Kitchener-Waterloo C.I. & V.I. | Kitchener, ON      |
| Yifei Wang                            | Vincent Massey S.S.            | Windsor, ON        |
| Yehua Wei                             | York Mills C.I.                | North York, ON     |
| Shaun White                           | Vincent Massey S.S.            | Windsor, ON        |
| Samuel Wong                           | University Hill S.S.           | Vancouver, BC      |
| Matei Zaharia                         | Jarvis C.I.                    | Toronto, ON        |
| Hang Zhang                            | Albert Campbell C.I.           | Scarborough, ON    |
| Jeff Zhao                             | Eric Hamber S.S.               | Vancouver, BC      |
| <b>Group 4 Scores / Notes 64 - 68</b> |                                |                    |
| Billy Ballik                          | Bowmanville H.S.               | Bowmanville, ON    |
| Maximilian Butler                     |                                | London, ON         |
| Allan Cai                             | Bayview S. S.                  | Richmond Hill, ON  |
| Aaron Chan                            | J.N. Burnett S.S.              | Richmond, BC       |
| Justin Chan                           | Mount Douglas S.S.             | Victoria, BC       |
| Tiffany Chao                          | Sir Winston Churchill S.S.     | Vancouver, BC      |
| Xida Chen                             | Stephen Leacock C.I.           | Scarborough, ON    |
| Leo Cheng                             | David Thompson S.S.            | Vancouver, BC      |
| Johnston Chu                          | Earl Haig S.S.                 | North York, ON     |

| Name / Nom |                | School / École                | Location / Endroit    |
|------------|----------------|-------------------------------|-----------------------|
| Andrew     | Critch         | Clareville Integrated H.S.    | Clareville, NF        |
| Felix      | Desrochers     | CEGEP Edouard-Montpetit       | Longueuil, QC         |
| Ali        | Feizmohammadi  | Northview Heights S.S.        | North York, ON        |
| Nir        | Friedman       | Thornhill S.S.                | Thornhill, ON         |
| Weibo      | Hao            | Vincent Massey S.S.           | Windsor, ON           |
| Szeto      | Hui Yu Raymond | Bayview Secondary School      | Richmond Hill, ON     |
| Chen       | Huang          | Sir Winston Churchill S.S.    | Vancouver, BC         |
| Ian        | Hung           | University of Toronto Schools | Toronto, ON           |
| Joe        | Hung           | David Thompson S.S.           | Vancouver, BC         |
| Oleg       | Ivrii          | Don Mills C.I.                | Don Mills, ON         |
| Charley    | Jiang          | Vincent Massey S.S.           | Windsor, ON           |
| Heejune    | Jun            | St. Robert C.H.S.             | Thornhill, ON         |
| Jaehun     | Kim            | Bayview Secondary School      | Richmond Hill, ON     |
| Jaeseung   | Kim            | Bayview Secondary School      | Richmond Hill, ON     |
| Tim        | Kuo            | Markham D.H.S.                | Markham, ON           |
| Kent       | Lam            | Thornhill S.S.                | Thornhill, ON         |
| Kanguk     | Lee            | Newtonbrook S.S.              | North York, ON        |
| Michael    | Lee            | The Woodlands School          | Mississauga, ON       |
| Tae Hun    | Lee            | Carson Graham S.S.            | North Vancouver, BC   |
| Hongyi     | Li             | Sir Winston Churchill H.S.    | Calgary, AB           |
| Robin      | Li             | Ontario Science Centre        | Don Mills, ON         |
| Yukai      | Li             | Vincent Massey S.S.           | Windsor, ON           |
| Angela     | Lin            | Sir Winston Churchill S.S.    | Vancouver, BC         |
| Taotao     | Liu            | Vincent Massey S.S.           | Windsor, ON           |
| Yichuan    | Liu            | University Hill S.S.          | Vancouver, BC         |
| Yun        | Lu             | Victoria Park S.S.            | North York, ON        |
| Elliot     | Lui            | Upper Canada College          | Toronto, ON           |
| Andre      | Mutchnik       | Marianopolis College          | Montreal, QC          |
| Lian Huan  | Ng             | Milliken Mills H.S.           | Unionville, ON        |
| Xiaoyu     | Ouyang         | Northern S.S.                 | Toronto, ON           |
| Tony       | Pak            | Don Mills C.I.                | Don Mills, ON         |
| He         | Ren            | Western Canada H.S.           | Calgary, AB           |
| Mark       | Salzman        | Upper Canada College          | Toronto, ON           |
| Antonio    | Sanchez        | St. Matthew H.S.              | Orleans, ON           |
| Ner Mu Nar | Saw            | Jarvis C.I.                   | Toronto, ON           |
| Chen       | Shen           | A.Y. Jackson S.S.             | North York, ON        |
| Jimmy      | Shen           | Vincent Massey S.S.           | Windsor, ON           |
| Yi Hao     | Shen           | Saint John H.S.               | Saint John, NB        |
| Evan       | Stratford      | University of Toronto Schools | Toronto, ON           |
| Huafei     | Sun            | Vanier College                | Ville St. Laurent, QC |
| Yuanbin    | Tang           | Lisgar C.I.                   | Ottawa, ON            |
| Kevin      | Teh            | Stephen Leacock C.I.          | Scarborough, ON       |
| Kuan Chieh | Tseng          | Yale S.S.                     | Abbotsford, BC        |
| Letao      | Wang           | Champlain Regional College    | St. Lambert, QC       |
| Linda      | Wang           | Vincent Massey S.S.           | Windsor, ON           |
| Qian       | Wang           | Semiahmoo S.S.                | Surrey, BC            |
| Melissa    | Wong           | University of Toronto Schools | Toronto, ON           |
| Yang       | Xu             | L'Amoreaux C.I.               | Agincourt, ON         |
| Alice      | Yang           | Western Canada H.S.           | Calgary, AB           |
| Zhengzheng | Yang           | The Woodlands S.S.            | Mississauga, ON       |
| Roger      | Yeung          | University of Toronto Schools | Toronto, ON           |
| Tom        | Yue            | A.Y. Jackson S.S.             | North York, ON        |
| Allen      | Zhang          | Burnaby South S.S.            | Burnaby, BC           |
| Anthony    | Zhang          | A.Y. Jackson S.S.             | North York, ON        |
| Nancy      | Zhang          | Sir Winston Churchill S.S.    | Vancouver, BC         |
| Tianxing   | Zhang          | Polyvalente Mgr. Richard      | Verdun, QC            |
| Yin        | Zhao           | Vincent Massey S.S.           | Windsor, ON           |

| Name / Nom                            |                | School / École                   | Location / Endroit     |
|---------------------------------------|----------------|----------------------------------|------------------------|
| <b>Group 5 Scores / Notes 60 - 63</b> |                |                                  |                        |
| Shawn                                 | Andrews        | Sarnia Northern C.I. & V.S.      | Sarnia, ON             |
| Isabelle                              | Ascah Coallier | CEGEP Ahuntsic                   | Montreal, QC           |
| Jian Qiu                              | Bai            | David Thompson S.S.              | Vancouver, BC          |
| Jacob                                 | Baskin         | University of Toronto Schools    | Toronto, ON            |
| Steven                                | Beliveau       | Ecole d'éducation Internationale | Laval-Des-Rapides, QC  |
| Laura                                 | Burnes         | Havergal College                 | Toronto, ON            |
| Yi                                    | Chai           | A.Y. Jackson S.S.                | North York, ON         |
| Li Anne                               | Chan           | Woburn Collegiate Institute      | Toronto, ON            |
| Bill                                  | Chen           | Riverdale C.I.                   | Toronto, ON            |
| George                                | Chen           | A.Y. Jackson S.S.                | North York, ON         |
| Likun                                 | Chen           | Vincent Massey S.S.              | Windsor, ON            |
| Jake                                  | Cheung         | Port Moody S.S.S.                | Port Moody, BC         |
| Leonid                                | Chindelevitch  | Marianopolis College             | Montreal, QC           |
| Stephen                               | Choy           | Upper Canada College             | Toronto, ON            |
| Karen                                 | Chu            | David Thompson S.S.              | Vancouver, BC          |
| Terence                               | Chung          | University of Toronto Schools    | Toronto, ON            |
| James                                 | Cook           | Western Tech. Comm. School       | Toronto, ON            |
| Geng                                  | Dai            | Parkdale C.I.                    | Toronto, ON            |
| Xintian                               | Dong           | Albert Campbell C.I.             | Scarborough, ON        |
| Anna                                  | Dyck           | Westgate Mennonite C.I.          | Winnipeg, MB           |
| Rong                                  | Feng           | Laurenhill Academy               | St. Laurent, QC        |
| Sunimal                               | Fernando       | St. Paul's Academy               | Okotoks, AB            |
| Kevin                                 | Field          | North Park C.I.                  | Brantford, ON          |
| Alice                                 | Gao            | Sir Winston Churchill S.S.       | Vancouver, BC          |
| George                                | Gao            | Lester B. Pearson H.S.           | Burlington, ON         |
| Yin                                   | Ge             | Ecole Internationale de Montreal | Westmount, QC          |
| Victor                                | Gong           | Kelvin H.S.                      | Winnipeg, MB           |
| Will                                  | Guest          | St. John's-Ravenscourt School    | Winnipeg, MB           |
| Ray                                   | Guo            | University of Toronto Schools    | Toronto, ON            |
| Katia                                 | Hildebrandt    | Vincent Massey S.S.              | Windsor, ON            |
| Hussein                               | Hirjee         | Woburn Collegiate Institute      | Toronto, ON            |
| Jacky                                 | Hon            | Bayview Secondary School         | Richmond Hill, ON      |
| Jia                                   | Hu             | Harry Ainlay H.S.                | Edmonton, AB           |
| Marina                                | Hu             | Burnaby South S.S.               | Burnaby, BC            |
| Liji                                  | Huang          | Portage Collegiate Institute     | Portage La Prairie, MB |
| Wayne                                 | Huang          | York Mills C.I.                  | North York, ON         |
| Alexander                             | Jiang          | The Halifax Grammar School       | Halifax, NS            |
| Danning                               | Jiang          | A.Y. Jackson S.S.                | North York, ON         |
| Ryan                                  | Jung           | St. Peter's S.S.                 | Peterborough, ON       |
| Jacklyn                               | Kang           | A.Y. Jackson S.S.                | North York, ON         |
| Adrian                                | Keet           | ABC Charter Public School        | Calgary, AB            |
| Arezou                                | Keshavarz      | Thornhill S.S.                   | Thornhill, ON          |
| Kenneth                               | Kwan           | Danforth Coll. & Tech. Inst.     | Toronto, ON            |
| Edward                                | Lam            | H.J. Cambie S.S.                 | Richmond, BC           |
| Damian                                | Lee            | The Woodlands S.                 | Mississauga, ON        |
| David                                 | Lee            | Pinetree S.S.                    | Coquitlam, BC          |
| Woo Ram                               | Lee            | Handsworth S.S.                  | North Vancouver, BC    |
| Adam                                  | Lerer          | University of Toronto Schools    | Toronto, ON            |
| Benjamin                              | Leung          | William Lyon Mackenzie C.I.      | Toronto, ON            |
| Iris                                  | Leung          | Sir John A. Macdonald C.I.       | Agincourt, ON          |
| Alan                                  | Li             | York Mills C.I.                  | North York, ON         |
| Kelvin                                | Li             | St. Michael's College School     | Toronto, ON            |
| Xinxin Jimmy                          | Li             | Earl Haig S.S.                   | North York, ON         |
| Yichun                                | Li             | Victoria Park S.S.               | North York, ON         |
| Zhentao                               | Li             | Marianopolis College             | Montreal, QC           |

| Name / Nom |                | School / École                  | Location / Endroit |
|------------|----------------|---------------------------------|--------------------|
| Zhuoran    | Li             | E.L. Crossley S.S.              | Fonthill, ON       |
| Sabrina    | Liao           | York Mills C.I.                 | North York, ON     |
| David      | Lin            | Earl Haig S.S.                  | North York, ON     |
| Michael    | Lipnowski      | St. John's-Ravenscourt School   | Winnipeg, MB       |
| David      | Liu            | St. John's-Ravenscourt School   | Winnipeg, MB       |
| Samuel     | Liu            | Britannia S.S.                  | Vancouver, BC      |
| Siyu       | Liu            | York Mills C.I.                 | North York, ON     |
| Andrew     | Mao            | A.B. Lucas S.S.                 | London, ON         |
| Ryan       | Marble         | Smiths Falls D.C.I.             | Smiths Falls, ON   |
| Etienne    | Marcotte       | College Jean-de-Brebeuf         | Montreal, QC       |
| Radoslav   | Marinov        | Harry Ainlay H.S.               | Edmonton, AB       |
| Britain    | Martin         | University of Toronto Schools   | Toronto, ON        |
| Jim        | McGarva        | University of Toronto Schools   | Toronto, ON        |
| Amirali    | Modir Shanechi | Don Mills C.I.                  | Don Mills, ON      |
| Shilpa     | Mody           | University of Toronto Schools   | Toronto, ON        |
| Zhi        | Mu             | Jarvis C.I.                     | Toronto, ON        |
| Darryl     | Ngai           | Vaughan S.S.                    | Thornhill, ON      |
| Tim        | Nyborg         | Evan Hardy C.I.                 | Saskatoon, SK      |
| Jeremy     | Opolsky        | University of Toronto Schools   | Toronto, ON        |
| Sanjay     | Patel          | University of Toronto Schools   | Toronto, ON        |
| Eugene     | Peng           | A.Y. Jackson S.S.               | North York, ON     |
| Kenneth    | Poon           | St. Robert C.H.S.               | Thornhill, ON      |
| Karol      | Przybytkowski  | College Durocher/St-Lambert     | St-Lambert, QC     |
| Elena      | Qirjazi        | Marc Garneau C.I.               | Don Mills, ON      |
| Qinglu     | Ren            | Monarch Park C.I.               | Toronto, ON        |
| Clara      | Rhee           | University of Toronto Schools   | Toronto, ON        |
| James      | Rupke          | Toronto District Christian H.S. | Woodbridge, ON     |
| Stanley Ye | Shen           | Sir Winston Churchill S.S.      | Vancouver, BC      |
| Bikrampal  | Sidhu          | University of Toronto Schools   | Toronto, ON        |
| Adam       | Silver         | Don Mills C.I.                  | Don Mills, ON      |
| Geoffrey   | Siu            | London Central S.S.             | London, ON         |
| Adrian     | So             | Don Mills C.I.                  | Don Mills, ON      |
| Steven     | Soneff         | Columnneetza S.S.S.             | Williams Lake, BC  |
| Sarah      | Sun            | Holy Trinity Academy            | Okotoks, AB        |
| Yichuan    | Tang           | Forest Hill C.I.                | Toronto, ON        |
| Chris      | Tran           | Northern S.S.                   | Toronto, ON        |
| William    | Truong         | Campbell C.I.                   | Regina, SK         |
| Anil       | Vassanji       | University of Toronto Schools   | Toronto, ON        |
| Evan       | Verkade        | York Mills C.I.                 | North York, ON     |
| Tailai     | Wan            | Marianopolis College            | Montreal, QC       |
| April      | Wang           | Waterloo C.I.                   | Waterloo, ON       |
| Changye    | Wang           | A.Y. Jackson S.S.               | North York, ON     |
| Frank      | Wang           | A.Y. Jackson S.S.               | North York, ON     |
| Laura      | Wang           | Vincent Massey S.S.             | Windsor, ON        |
| Pei        | Wang           | Sir John A. Macdonald C.I.      | Agincourt, ON      |
| Patrick    | Weekes         | Upper Canada College            | Toronto, ON        |
| Jason      | Wong           | Unionville H.S.                 | Unionville, ON     |
| Tedmond    | Wong           | University of Toronto Schools   | Toronto, ON        |
| Terence    | Wong           | Earl Haig S.S.                  | North York, ON     |
| Nathanael  | Wu             | Western Canada H.S.             | Calgary, AB        |
| Steven     | Wu             | A.Y. Jackson S.S.               | North York, ON     |
| Yue        | Yang           | Jarvis C.I.                     | Toronto, ON        |
| Bo Yang    | Yu             | Saint John H.S.                 | Saint John, NB     |
| Baosan     | Zhang          | Waterloo C.I.                   | Waterloo, ON       |
| Hanfei     | Zhang          | A.Y. Jackson S.S.               | North York, ON     |
| Richard    | Zhao           | Newtonbrook S.S.                | North York, ON     |

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| <b>Name / Nom</b> |         | <b>School / École</b> | <b>Location / Endroit</b> |
|-------------------|---------|-----------------------|---------------------------|
| Yufei             | Zhao    | Don Mills C.I.        | Don Mills, ON             |
| Ryan              | Zhou    | Adam Scott C.&V.I.    | Peterborough, ON          |
| Eric              | Zimanyi | Marianopolis College  | Montreal, QC              |

**Classement des élèves****Student Rankings**

| Score/<br>Note | Rank/<br>Position | Score/<br>Note | Rank/<br>Position | Score/<br>Note | Rank/<br>Position |
|----------------|-------------------|----------------|-------------------|----------------|-------------------|
| 80             | 1                 | 52             | 673               | 25             | 4475              |
| 79             | 3                 | 51             | 774               | 24             | 4562              |
| 78             | 5                 | 50             | 868               | 23             | 4633              |
| 77             | 7                 | 49             | 992               | 22             | 4698              |
| 75             | 8                 | 48             | 1115              | 21             | 4761              |
| 74             | 10                | 47             | 1250              | 20             | 4813              |
| 73             | 13                | 46             | 1384              | 19             | 4863              |
| 72             | 15                | 45             | 1550              | 18             | 4917              |
| 71             | 16                | 44             | 1701              | 17             | 4955              |
| 70             | 20                | 43             | 1862              | 16             | 5002              |
| 69             | 23                | 42             | 2053              | 15             | 5032              |
| 68             | 41                | 41             | 2224              | 14             | 5051              |
| 67             | 54                | 40             | 2403              | 13             | 5078              |
| 66             | 57                | 39             | 2583              | 12             | 5108              |
| 65             | 71                | 38             | 2765              | 11             | 5130              |
| 64             | 89                | 37             | 2944              | 10             | 5147              |
| 63             | 116               | 36             | 3105              | 9              | 5171              |
| 62             | 152               | 35             | 3265              | 8              | 5180              |
| 61             | 181               | 34             | 3415              | 7              | 5189              |
| 60             | 220               | 33             | 3566              | 6              | 5196              |
| 59             | 252               | 32             | 3702              | 5              | 5203              |
| 58             | 292               | 31             | 3821              | 4              | 5215              |
| 57             | 349               | 30             | 3950              | 3              | 5221              |
| 56             | 397               | 29             | 4073              | 2              | 5227              |
| 55             | 447               | 28             | 4183              | 1              | 5231              |
| 54             | 509               | 27             | 4285              | 0              | 5234              |
| 53             | 583               | 26             | 4384              |                |                   |

**Comité du concours****Contest Committee**

Ian McGee (Chair)  
University of Waterloo  
Waterloo

Mike Mosca  
University of Waterloo  
Waterloo

Daryl Tingley  
University of New Brunswick  
Fredericton

Mike Eden  
Preston District High School  
Cambridge

Paul Schellenberg  
University of Waterloo  
Waterloo

Bruce White  
Vincent Massey S. S.  
Windsor

Gareth Griffith  
University of Saskatchewan  
Saskatoon

Jeff Shifrin  
Retired  
Toronto

**Comité du coordination****Coordinating Committee**

Peter Crippin, University of Waterloo

Linda Schmidt, Managing Director, C.E.M.C.

Ian VanderBurgh, University of Waterloo

Graham Wright, Executive Director, C.M.S.

**Students who do not meet the requirements of eligibility in age and school residence are classified as unofficial contestants. Students are listed in alphabetical order within each group.**

**Les étudiants qui ne sont pas de l'âge éligible ou qui ne fréquentent pas l'école ne sont pas classifiés comme concurrents. Dans chaque groupe, les élèves sont nommés en ordre alphabétiques.**

**GROUP I / GROUPE I SCORES / NOTES ≥ 60**

|              |             |                                     |                             |
|--------------|-------------|-------------------------------------|-----------------------------|
| Nitin        | Aggarwal    | Oshwal High School                  | Nairobi, Kenya              |
| Candice      | Baldeo      | Naparima Girls H.S.                 | San Fernando Trinidad       |
| Jose Ramon   | Batiller    | Mathematics Trainers' Guild         | Zamboanga City, Philippines |
| Xiaowen      | Cai         | Columbia International College      | Hamilton, ON                |
| Sui Hong     | Cao         | L'Amoreaux C.I.                     | Agincourt, ON               |
| Yunyi        | Cao         | Ridgemont H.S.                      | Ottawa, ON                  |
| Duygu        | Ceylan      | American Collegiate Institute       | Izmir, Turkey               |
| Clarence     | Chan        | The International School of Beijing | Beijing, China              |
| Fei Fei      | Chan        | The International School of Beijing | Beijing, China              |
| Qi           | Chen        | Cornwall C.I. & V.S.                | Cornwall, ON                |
| Shi          | Chen        | John Abbott College                 | Ste. Anne de Bellevue, QC   |
| Yu           | Chen        | Columbia International College      | Hamilton, ON                |
| William      | Chiong      | Mathematics Trainers' Guild         | Zamboanga City, Philippines |
| Zou          | Chongyang   | Rick Hansen S.S.                    | Abbotsford, BC              |
| Dennis       | Chuang      | Strathcona-Tweedsmuir School        | Okotoks, AB                 |
| Charles Edri | Co          | Mathematics Trainers' Guild         | Zamboanga City, Philippines |
| Rongtao      | Dan         | King George S.S.                    | Vancouver, BC               |
| Bo Hong      | Deng        | East York C.I.                      | Toronto, ON                 |
| Jimmy        | Deng        | Earl Haig S.S.                      | North York, ON              |
| Yu           | Ding        | Columbia International College      | Hamilton, ON                |
| Frederick    | Dong        | Markham D.H.S.                      | Markham, ON                 |
| Malerie      | Dy          | Mathematics Trainers' Guild         | Zamboanga City, Philippines |
| Trisha       | Farooque    | East York C.I.                      | Toronto, ON                 |
| Ruixin       | Feng        | Bond International College          | Toronto, ON                 |
| Johnson      | Gamboa      | Mathematics Trainers' Guild         | Zamboanga City, Philippines |
| Alvin Edward | Gillo       | Mathematics Trainers' Guild         | Zamboanga City, Philippines |
| Mathieu      | Guay Paquet | College De Maisonneuve              | Montreal, QC                |
| Jarryd       | Haynes      | Presentation College                | San Fernando, Trinidad      |
| Wei          | He          | Jarvis C.I.                         | Toronto, ON                 |
| Apolonio Jr  | Hilario     | Mathematics Trainers' Guild         | Zamboanga City, Philippines |
| Ali          | Izadpanah   | Dawson College                      | Montreal, QC                |
| Wenxin       | Jiang       | Bloor C.I.                          | Toronto, ON                 |
| Shanghao     | Jin         | Columbia International College      | Hamilton, ON                |
| Darren       | Jung        | Vaughan S.S.                        | Thornhill, ON               |
| Zhao         | Junle       | Bond International College          | Toronto, ON                 |
| Patrick      | Kaifosh     | Univ. Of Toronto Schools            | Toronto, ON                 |
| Kutay        | Karatepe    | American Collegiate Institute       | Izmir, Turkey               |
| Goeun Connie | Kim         | University Hill S.S.                | Vancouver, BC               |
| Jed Ericson  | Lee         | Mathematics Trainers' Guild         | Zamboanga City, Philippines |
| Ka Ho        | Lee         | Jarvis C.I.                         | Toronto, ON                 |
| Li           | Li          | Canadian International School       | Singapore, Singapore        |
| Linda        | Li          | Earl Haig S.S.                      | North York, ON              |
| Qixin        | Li          | Rick Hansen S.S.                    | Abbotsford, BC              |
| Xiang        | Li          | L'Amoreaux C.I.                     | Agincourt, ON               |
| Ziquan       | Lia         | Sir John A. Macdonald C.I.          | Agincourt, ON               |
| Nanqian      | Lin         | Albert Campbell C.I.                | Scarborough, ON             |
| Yang         | Liu         | Columbia International College      | Hamilton, ON                |
| Marvin       | Mao         | The Int. School of Beijing          | Beijing, China              |
| Xia          | Mingxin     | Columbia International College      | Hamilton, ON                |
| Athena       | Nguyen      | Kelvin H.S.                         | Winnipeg, MB                |
| Quoc         | Nguyen      | Vincent Massey Collegiate           | Winnipeg, MB                |
| Eun Kyung    | Park        | A.B. Lucas S.S.                     | London, ON                  |

|              |            |                                     |                             |
|--------------|------------|-------------------------------------|-----------------------------|
| James        | Park       | Weldon Park Academy                 | London, ON                  |
| Allison      | Ramkissoon | Naparima Girls H.S.                 | San Fernando, Trinidad      |
| Razvan       | Romanescu  | East York C.I.                      | Toronto, ON                 |
| Leo Isiah    | Sambayan   | Mathematics Trainers' Guild         | Zamboanga City, Philippines |
| Stephen      | Schreiner  | The International School Of Beijing | Beijing, China              |
| Keyur        | Shah       | Oshwal High School                  | Nairobi, Kenya              |
| Bin          | Shen       | Richmond S.S.                       | Richmond, BC                |
| Kieron Scott | Singh      | Presentation College                | San Fernando, Trinidad      |
| Kristine     | Tan        | Mathematics Trainers' Guild         | Zamboanga City, Philippines |
| Michael      | Tan        | Mathematics Trainers' Guild         | Zamboanga City, Philippines |
| Diana Joyce  | Tee        | Mathematics Trainers' Guild         | Zamboanga City, Philippines |
| Jansen       | Teo        | Mathematics Trainers' Guild         | Zamboanga City, Philippines |
| Feng         | Ti Kan     | Alexander Mackenzie H.S.            | Richmond Hill, ON           |
| Timothy      | Tsang      | McDonald International Academy      | Toronto, ON                 |
| Deogracias   | Villame    | Mathematics Trainers' Guild         | Zamboanga City, Philippines |
| Gen          | Wang       | Columbia International College      | Hamilton, ON                |
| Linyi        | Wang       | Columbia International College      | Hamilton, ON                |
| Henry        | Wei        | The International School of Beijing | Beijing, China              |
| Zeying       | Wei        | Westdale S.S.                       | Hamilton, ON                |
| Yang         | Xia        | Vincent Massey S.S.                 | Windsor, ON                 |
| Bi           | Xiaoyu     | Columbia International College      | Hamilton, ON                |
| Jian         | Yang       | Bloor C.I.                          | Toronto, ON                 |
| Zhao         | Yang       | Columbia International College      | Hamilton, ON                |
| Yilmaz       | Yildiz     | American Collegiate Institute       | Izmir, Turkey               |
| Liqiao       | Ying       | McDonald International Academy      | Toronto, ON                 |
| Changhoon    | Yoon       | The International School of Beijing | Beijing, China              |
| Shuyan       | Zhang      | Albert Campbell C.I.                | Scarborough, ON             |
| Nan          | Zhao       | Columbia International College      | Hamilton, ON                |
| Taixi        | Zhu        | Columbia International College      | Hamilton, ON                |