



2010
Results

2010
Résultats

Fryer Contest
(Grade 9)

Concours Fryer
(9^e année – Sec. III)

Galois Contest
(Grade 10)

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

Hypatia Contest
(Grade 11)

Concours Hypatie
(11^e année – Sec. V)



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Overall Comments

The year 2010 marked the eighth writings of the Fryer, Galois and Hypatia Contests. The FGH Contests are designed to give students in Grades 9, 10 and 11 an additional mathematical challenge during the school year, and one that requires full written solutions. Being able to do mathematics is an important skill; being able to communicate one's findings (in mathematics or in any other field) is also very important.

We were very pleased this year to see another healthy increase in the number of participants in these Contests. In general, many students writing these Contests are doing a better job each year of writing clear solutions to the problems. That being said, there is always work that can be done to help them improve these skills. Some students reduced their scores because they gave answers rather than solutions or presented untidy or illegible solutions.

The averages on the Fryer, Galois and Hypatia Contests this year were 23.3, 23.6 and 23.7, respectively. We will continue to try to keep the averages on these papers in this range. Here are some specific comments on the problems.

Fryer Contest

1. Average: 8.9

This problem was very well done. A handful of students presented answers only with no explanations.

2. Average: 6.5

Parts (a) and (b)(i) were well done. In part (b)(ii), many students assumed that n was odd and attempted to explain why the average was odd, which is the converse of the required statement. Also in parts (b)(ii) and (c), some students attempted to explain why the general statements were true by trying a small number of numerical examples.

3. Average: 6.0

Parts (a) and (b) were well done. In part (c), many students determined that Train 1 travelled 210 km before Train 2 started moving. Also in part (c), some students tried to explain too much rather than developing a distance-speed-time chart or converting to an algebraic solution. Many students incorrectly assumed that each train travelled half the distance between Amville and Batton.

4. Average: 1.9

Part (a) was generally well done, though a number of students believed that 0 is a positive integer. A key idea that led many quickly to a solution in (b) was the realization that seven-digit palindromes are completely determined by their first four digits. A few students had very simple solutions to (c). Part (d) was a major challenge for most students, though we did see a handful of very nice complete solutions.

Galois Contest

1. Average: 8.5

This question was very well done, as there were many different ways of combining the rates to solve the problems. After correctly determined that Emily saves 6 cents during a 15 minute shower in part (c), many students inadvertently converted this rate to a savings of 6 cents per minute, not 6 cents in 15 minutes.

2. Average: 7.1

Part (a) was very well done. In parts (b) and (c), many students obtained correct expressions for the areas, though a good number of these did not simplify their answers. In part (d), a common error was to assume that $\triangle ACB$ is right-angled, and use the lengths of AC and CB as calculated in parts (b) and (c). This incorrect assumption led many students to an equation that they were not able to solve.

3. Average: 5.1

Part (a) was very well done by the majority of students. In part (b), there were some well-crafted arguments. Some students considered the parity of x and y , drawing conclusions about the parity of p and q . Other

students started with p even and q odd and reasoned that x and y would not then be integers. Some students tried to describe an even integer as $p = 2k$ and an odd integer as $q = 2k + 1$ for some integer k , not realizing that this assumes that p and q are consecutive. In part (c), a number of students applied their work in parts (a) and (b). Many spotted that $x^2 - y^2 = (x - y)(x + y)$, and listed all the pairs of factors of 420. Some used the insight from part (b) to then discard those pairs of factors which did not match in parity.

4. Average: 2.9

In part (a), many students noticed the fact that the two triangles share a height, and reduced the ratio of 6 : 10. In part (b), many students were able to determine the area of $\triangle ABC$. In (c), many students successfully computed the area of $\triangle PVY$. Further progress was made by students who found other ratios of area in pairs of triangles with a shared height.

Hypatia Contest

1. Average: 9.6

This question was very well done. Many solutions were well presented. It was nice to see solutions that involved computing the distance (2000 km) where flying and riding the bus cost the same amount.

2. Average: 6.1

The largest hurdle in this problem for many students was understanding the functional notation. Students comfortable with functional notation were generally successful in solving all three parts. Part (c) was solved in several different ways and sometimes answered first which then quickly gave answers to parts (a) and (b).

3. Average: 5.6

Most students tried all parts of this problem. Very few had trouble computing the measures of the angles in part (a). The majority of students provided one of the many possible correct solutions in part (b). The two remaining parts were approached in a variety of different ways. The Sine Law was the most commonly used tool. This sometimes resulted in decimal approximations instead of the exact answers shown in the model solutions.

4. Average 2.4

Part (a) was reasonable well done, but students sometimes missed the negative or irrational roots. While not many students attempted parts (b) and (c), there were a number of beautiful arguments among those that were marked.

Please visit our website at www.cemc.uwaterloo.ca to download the 2010 Fryer, Galois and Hypatia Contests, plus full solutions.

Commentaires généraux

L'année 2010 est la huitième édition des concours Fryer, Galois et Hypatie. Les concours de FGH ont été créés pour donner aux étudiants de 9e, 10e et 11e année (sec. III, IV et V) un défi mathématique supplémentaire pendant l'année scolaire qui exige des solutions écrites complètes. Être capable de faire des mathématiques est une aptitude importante. Pouvoir communiquer ses conclusions (en mathématiques ou autres domaines) est aussi très important.

Nous sommes ravis cette année de constater une croissance du nombre de participants à ces concours. En général, plusieurs des étudiants participant à ces concours s'améliorent d'année en année en ce qui concerne écrire des solutions claires. Cependant, il y a toujours du travail à faire pour les aider à développer leurs aptitudes. Certains des étudiants ont eu des notes plus basses car ils présentaient uniquement des réponses au lieu de solutions ou des solutions non soignées ou illisibles.

Cette année, les moyennes des concours Fryer, Galois et Hypatie étaient de 23,3, 23,6 et 23,7 respectivement. Nous tenterons de continuer à conserver cette gamme pour les moyennes de ces examens. Voici quelques commentaires spécifiques sur les problèmes de ces examens.

Concours Fryer

1. Moyenne: 8,9

Ce problème a été très bien réussi. Quelques élèves ont présenté des réponses seulement, sans explications.

2. Moyenne: 6,5

Les parties (a) et (b)(i) ont été bien réussies. Dans la partie (b)(ii), beaucoup d'élèves ont supposé que n était impair et ont tenté de démontrer que la moyenne était impaire, ce qui est la réciproque de ce qu'il fallait démontrer. Dans les parties (b)(ii) et (c), certains élèves ont tenté d'expliquer pourquoi les énoncés généraux étaient vrais en montrant qu'ils étaient vrais dans quelques cas numériques particuliers.

3. Moyenne: 6,0

Les parties (a) et (b) ont été bien réussies. Dans la partie (c), bon nombre d'élèves ont déterminé que le train 1 avait parcouru 210 km avant le départ du train 2. Dans la partie (c), certains élèves ont tenté de tout expliquer au lieu de développer un tableau distance-vitesse-temps ou d'utiliser un modèle algébrique. Bon nombre d'élèves ont supposé, à tort, que chaque train avait parcouru la moitié de la distance entre Amville et Batton.

4. Moyenne: 1,9

La partie (a) a été assez bien réussie, bien que quelques élèves croyaient que 0 était un entier strictement positif. Dans la partie (b), beaucoup d'élèves ont utilisé une idée-clé, à savoir que les palindromes de 7 chiffres sont complètement déterminés par leurs quatre premiers chiffres. Quelques élèves ont utilisé une solution très simple dans la partie (c). La partie (d) présentait un défi de taille pour la plupart des élèves, mais quelques élèves ont tout de même présenté de belles solutions complètes.

Concours Galois

1. Moyenne: 8,5

Cette question a été très bien réussie. Dans la partie (c), après avoir déterminé qu'Émilie épargnait 6 cents pendant une douche de 15 minutes, beaucoup d'élèves ont conclu qu'elle épargnait 6 cents par minute au lieu de 6 cents par 15 minutes.

2. Moyenne: 7,1

La partie (a) a été très bien réussie. Dans les parties (b) et (c), beaucoup d'élèves ont obtenu de bonnes expressions pour l'aire, sans toutefois les simplifier. Dans la partie (d), bon nombre d'élèves ont supposé, à tort, que le triangle ACB était rectangle. Ils ont ensuite utilisé les longueurs de AC et de CB obtenues dans les parties (b) et (c). Cela leur a donné une équation qu'ils n'ont pas réussi à résoudre.

3. Moyenne: 5,1

La partie (a) a été très bien réussie par la majorité des élèves. Dans la partie (b), certains élèves ont présenté des arguments astucieux. Certains ont considéré la parité de x et de y pour tirer des conclusions sur la parité de p et de q . D'autres ont supposé que p était pair et que q était impair pour conclure que x et y ne seraient pas des entiers. Quelques élèves ont utilisé $p = 2k$ (k étant un entier quelconque) pour exprimer un nombre pair et $q = 2k + 1$ pour exprimer un nombre impair, sans réaliser qu'ils supposaient ainsi que p et q étaient des entiers consécutifs. Dans la partie (c), certains élèves ont utilisé leurs résultats des parties (a) et (b). Beaucoup d'entre eux ont utilisé l'identité $x^2 - y^2 = (x - y)(x + y)$, ce qui leur a permis d'écrire toutes les paires de facteurs de 420. Certains ont eu la perspicacité d'utiliser les résultats de la partie (b) pour rejeter les paires de facteurs qui ne présentaient pas la bonne parité.

4. Moyenne: 2,9

Dans la partie (a), beaucoup d'élèves ont vu que les triangles partageaient la même hauteur et ils ont ensuite réduit le rapport 6 : 10. Dans la partie (b), beaucoup d'élèves ont réussi à déterminer l'aire du triangle ABC . Dans la partie (c), bon nombre d'élèves ont réussi à déterminer l'aire du triangle PVY . D'autres ont pu progresser davantage en trouvant des rapports d'aires de triangles qui partageaient une même hauteur.

Concours Hypatie

1. Moyenne: 9,6

Cette question a été très bien réussie. Les élèves ont utilisé une variété de solutions. Il était agréable de voir des solutions dans lesquelles on a déterminé la distance (2000 km) pour laquelle le coût était le même en autocar et en avion.

2. Moyenne: 6,1

L'obstacle principal à franchir, pour certains élèves, était la compréhension de la notation fonctionnelle. Ceux qui la comprenaient ont généralement réussi les trois parties. La partie (c) pouvait être résolue de plusieurs façons et si on la résolvait en premier, elle donnait les réponses des parties (a) et (b).

3. Moyenne: 5,6

La plupart des élèves ont tenté de résoudre toutes les parties du problème. Très peu d'entre eux n'ont pas réussi à déterminer les mesures de la partie (a). La partie (b) pouvait être résolue de plusieurs façons et la majorité des élèves l'ont réussie. Les élèves ont utilisé une variété d'approches pour résoudre les deux autres parties. La loi des sinus semble avoir été l'outil le plus populaire. À quelques occasions, cela a donné des réponses approximatives au lieu des nombres exacts que l'on peut voir dans les exemples de solutions.

4. Moyenne 2,4

La partie (a) a été assez bien réussie, bien que certains élèves n'aient pas traité des racines négatives ou irrationnelles. Peu d'élèves ont essayé de résoudre les parties (b) ou (c), mais certains d'entre eux ont présenté de beaux arguments.

Veillez visiter notre site Web à www.cemc.uwaterloo.ca pour télécharger les concours Fryer, Galois et Hypatie 2010, avec solutions complètes.

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

	Enrollment/ Inscription
NL	45
NS	165
NB	196
PE	20
QC	354
ON	7572
MB	309
SK	65
AB	624
BC	1490
International	2155
Total	<hr/> 12995

Score/ Note	Fryer Rank/ Position	Galois Rank/ Position	Hypatia/ Hypatie Rank/ Position
40	1	1	1
39	8	21	43
38	29	42	89
37	41	73	154
36	77	149	202
35	120	225	262
34	190	303	335
33	259	390	414
32	327	497	510
31	437	608	639
30	537	714	771
29	676	837	884
28	790	955	1011
27	940	1082	1114
26	1130	1199	1239
25	1298	1336	1362
24	1513	1494	1491
23	1725	1676	1606
22	1924	1866	1710
21	2117	2019	1819
20	2309	2173	1927
19	2512	2347	2025
18	2683	2487	2127
17	2848	2620	2243
16	3002	2732	2329
15	3132	2827	2437
14	3243	2932	2539
13	3314	3007	2661
12	3382	3084	2766
11	3435	3133	2878
10	3464	3180	2955
9	3493	3224	3006
8	3507	3262	3024
7	3535	3286	3038
6	3545	3299	3045
5	3554	3313	3055
4	3558	3323	3061
3	3560	3331	3063
2	3561	3335	3069
1		3338	3079
0	3564	3340	

N.B. These rankings pertain to ALL contestants /
N.B. Ces rangs se rapportent à TOUS concurrents

The top 25% of the competitors in each of the three Contests were divided into three categories: Gold Standard, Silver Standard and Bronze Standard, in the ratio 1 : 2 : 3. The names of the those students achieving the Gold Standard (that is, scoring in roughly the top 4%) are listed alphabetically below for each Contest.

Les candidats qui se classent dans le premier quart de classement dans chacun des trois concours ont été répartis en trois catégories: le niveau or, le niveau argent et le niveau bronze, selon le ratio 1 : 2 : 3. Le nom des étudiants qui ont obtenu le niveau or (c'est-à-dire ceux qui se classent parmi les premiers 4 p. 100) est donné par ordre alphabétique ci-dessous pour chaque concours.

Name/Nom		School/École	Location/Endroit
SAM	ABERNETHY	Cornwallis Sr. and Jr. H.S.	Halifax, NS
DUCKSUNG	AHN	The Anglo-American School of Moscow	Moscow, Russian Federation
RIZKY	APRILIANTI	GCN International	Pamekasan, Indonesia
ADITHYA	BALASUBRAMANIA	ICAE	Troy, MI
ROHIT	BHADANGE	ICAE	Troy, MI
SAHIT	BOLLINENI	ICAE	Troy, MI
CASEY	BOROSKI	Vincent Massey S.S.	Windsor, ON
MICHAEL	BRODETH	Math Trainers Guild of Philippines	Zamboanga City, Philippines
TANNYA	CAI	Elmwood School	Rockcliffe, ON
VICTORIA	CAO	John Campbell P.S.	Windsor, ON
PATRICK	CELON	Math Trainers Guild of Philippines	Zamboanga City, Philippines
ANGELA	CHAO	Glenforest S.S.	Mississauga, ON
CLAIRE	CHEN	University of Toronto Schools	Toronto, ON
CRYSTAL	CHEN		North York, ON
JENNIFER	CHEN	Havergal College	North York, ON
MICHAEL	CHEN	Vincent Massey S.S.	Windsor, ON
STEVEN	CHEN	Vincent Massey S.S.	Windsor, ON
GEORGE	CHENG	University of Toronto Schools	Toronto, ON
VANICE	CHEUNG	Branksome Hall	Toronto, ON
KEVIN	CHO	Sentinel S.S.	West Vancouver , BC
SALLY	CHOI	Prince of Wales S.S.	Vancouver, BC
WIRIAWAN	CHRISTOPHER	Surya Institute	Tangerang, Indonesia
WEILIAN	CHU	Grandview Heights Jr. H.S.	Edmonton, AB
NATASHA	CONSUL	ICAE	Troy, MI
WENCHE	CUI	Bayview S.S.	Richmond Hill, ON
GRACIA	DONG	Bayview S.S.	Richmond Hill, ON
SACHIN	DOSHI	The Woodlands School	Mississauga, ON
WILDY	FACHRIZAL	GCN International	Pamekasan, Indonesia
HOWARD	FENG	Bayview S.S.	Richmond Hill, ON
SAMANTHA	FOSADO SOLIS	E.S. St. Luc	Montreal, QC
STUART	FOWLER	Waterloo C.I.	Waterloo, ON
QIAOYU	GAO		North York, ON
SHUBHAM	GARG	Tom Baines School	Calgary, AB
SABRINA	GE	University of Toronto Schools	Toronto, ON
BAILEY	GU	Lisgar C.I.	Ottawa, ON
MITCHELL	GUNN		London, ON
SHANNON	GUO	Parkside H.S.	Dundas, ON
XU	HAICHUAN	Port Credit S.S.	Mississauga, ON
ERIN	HEMM	Frontenac S.S.	Kingston, ON
JORDAN	HO	Marc Garneau C.I.	North York, ON
LEWIS	HO	Chinese Int'l School	Braemar Hill, Hong Kong
ANGIE	HSU	West Vancouver S.S.	West Vancouver, BC
DANCHENG	HU	Acadia Jr. H.S.	Winnipeg, MB
TIGER	HUANG	Upper Canada College	Toronto, ON
TOM	HUANG	Richmond Hill H.S.	Richmond Hill, ON
DANIEL	HUI	Woburn C.I.	Scarborough, ON
DHARINI	ILANGOMARAN	Marc Garneau C.I.	North York, ON

Name/Nom		School/École	Location/Endroit
MAYURESH	IYER	ICAE	Troy, MI
HIRSH	JAIN	ICAE	Troy, MI
ALYF	JANMOHAMED	Upper Canada College	Toronto, ON
KURTIS	JANTZEN	Queen Elizabeth H.S.	Calgary, AB
DEREK	JEDRAL	University of Toronto Schools	Toronto, ON
HAOCHEN	JI	The Woodlands School	Mississauga, ON
XIN	JIANG		North York, ON
JEEVITESH	JUNEJA	Port Credit S.S.	Mississauga, ON
SEUNGYEON	JUNG	Fudan Int'l School	Shanghai, China
ANDREW	KANG		Victoria, BC
SHERRY	KAO	Bishop Strachan School	Toronto, ON
TAYLPR	KEATING	Crescent School	North York, ON
YOUNGSANG	KIM	Pinetree S.S.	Coquitlam, BC
ANGUS	KONG	Vincent Massey S.S.	Windsor, ON
SACHIN	KOTECHA	Frontenac S.S.	Kingston, ON
NITIN	KUMAR	ICAE	Troy, MI
JAE YOUNG	KWON	E.S. St. Luc	Montreal, QC
ALEX	LABACH	Waterloo C.I.	Waterloo, ON
ELBERT	LAI	Waterloo C.I.	Waterloo, ON
LEO	LAI	Prince of Wales S.S.	Vancouver, BC
FREDRIC	LAM	Centennial Reg'l H.S.	Greenfield Park, QC
JAHEYOUNG	LEE	The Anglo-American School of Moscow	Moscow, Russian Federation
JONGSEO	LEE	Prince of Wales S.S.	Vancouver, BC
DAVID YE	LI		North York, ON
FRANK	LI	Markham D.H.S.	Markham, ON
SCOTT	LI	Northern S.S.	Toronto, ON
THOMAS	LI	Chinese Int'l School	Braemar Hill, Hong Kong
YUN	LIN	Pinetree S.S.	Coquitlam, BC
HSIN-YEN	LIU	William Lyon Mackenzie C.I.	North York, ON
SHAWN	LIU	Vincent Massey S.S.	Windsor, ON
TIAN JING	LIU	College St. Louis	Lasalle, QC
WINSTON	LIU	Lorne Park S.S.	Mississauga, ON
JOSHUA	LO	Richmond Hill H.S.	Richmond Hill, ON
EDWARD	LU	Sir John A. Macdonald S.S.	Waterloo, ON
KAI	LU	Waterloo C.I.	Waterloo, ON
MICHELLE	LU	Earl Haig S.S.	North York, ON
GARY	LUOO	ICAE	Troy, MI
CHANUKYA	MALLA	ICAE	Troy, MI
HIMIG	MARCOS	Math Trainers Guild of Philippines	Zamboanga City, Philippines
DHRUV	MEDARAMETLA	ICAE	Troy, MI
NICOLAES	MIN	Walter Murray C.I.	Saskatoon, SK
GARY	MOK	David Thompson S.S.	Vancouver, BC
ANTONIO	MOLINA	Ste. Anne	Fredericton, NB
PRIYA	MURALI	St. Francis Xavier S.S.	Mississauga, ON
PATRICK	MURPHY	St. Thomas Aquinas S.S.	London, ON
ROSEMARY	NAM	University of Toronto Schools	Toronto, ON
MOHAMMAD	NASIRUDDIN	GCN International	Pamekasan, Indonesia
SEANNE	NG	Math Trainers Guild of Philippines	Zamboanga City, Philippines
RAENELLE	NGO	Math Trainers Guild of Philippines	Zamboanga City, Philippines
AKHIL	NISTALA	ICAE	Troy, MI
JAEWON	OH	Waterloo C.I.	Waterloo, ON
MARIO	ONGKIKO	Math Trainers Guild of Philippines	Zamboanga City, Philippines
SKANDA	PALANI	ICAE	Troy, MI
LUCAS	PALMER	Vincent Massey S.S.	Windsor, ON
ERIC	PAN		London, ON
MICHAEL	PANG	Acadia Jr. H.S.	Winnipeg, MB

Name/Nom		School/École	Location/Endroit
SACHIN	PASRICHA	Upper Canada College	Toronto, ON
JOSHEN	PATEL	ICAE	Troy, MI
BO YUAN	PENG	Academie Ste. Cecile Int'l	Windsor, ON
CAMERON	PORTEOUS	Forest Heights C.I.	Kitchener, ON
RAGHAV	PRABHU	ICAE	Troy, MI
YUSUF	QADEER	ICAE	Troy, MI
ALVIN	QIU	Richmond Hill H.S.	Richmond Hill, ON
BOBBY	QIU	Don Mills C.I.	North York, ON
BRYAN	QIU	Richmond Hill H.S.	Richmond Hill, ON
MENGTING	QIU	University of Toronto Schools	Toronto, ON
ARIFIN	RAHMAN	Marc Garneau C.I.	North York, ON
RAJ	RAINA	ICAE	Troy, MI
HONGRU	REN	Acadia Jr. H.S.	Winnipeg, MB
JOSEPH	RENZI	ICAE	Troy, MI
CHRISTIAN	RICHARD	Ste. Anne	Fredericton, NB
ALEX	RODRIGUES	John Ware Jr. H.S.	Calgary, AB
VALENTINA	SAMOYLENKO	E.S. St. Luc	Montreal, QC
STEPHEN	SANJAYA	Surya Institute	Tangerang, Indonesia
PARTH	SHAH	ICAE	Troy, MI
PRIYANKA	SHANMUGASUNDAR	ICAE	Troy, MI
YEJI	SHIN	The Anglo-American School of Moscow	Moscow, Russian Federation
APURVA	SHRIVASTAVA	ICAE	Troy, MI
DESMOND	SISSON	Queen Elizabeth H.S.	Calgary, AB
RUI	SONG	Walter Murray C.I.	Saskatoon, SK
DANIEL	SPIVAK	Bayview S.S.	Richmond Hill, ON
CUTHBERT	SUN	ICAE	Troy, MI
JASON	SUN	Marc Garneau C.I.	North York, ON
SIMONN	SUO		North York, ON
KEITH	TAM	Bayview S.S.	Richmond Hill, ON
JOHNNY	TANG		Scarborough, ON
DIELLE	TIO	Math Trainers Guild of Philippines	Zamboanga City, Philippines
ALEXANDER	TOY	Lower Canada College	Montreal, QC
MIKAELA	UY	Math Trainers Guild of Philippines	Zamboanga City, Philippines
JORDY	VERASAMY	Iroquois Ridge H.S.	Oakville, ON
CHRIS	WAN	Chinese Int'l School	Braemar Hill, Hong Kong
HANCHEN	WANG	Sir Winston Churchill S.S.	Vancouver, BC
MIKE	WANG	Moscrop S.S.	Burnaby, BC
JANSEN	WANGSAWIDJAJA	Surya Institute	Tangerang, Indonesia
YUANHAO	WEI	Earl of March S.S.	Kanata, ON
LUCAS	WEN	Waterloo C.I.	Waterloo, ON
JOSHUA	WIJAYA	Surya Institute	Tangerang, Indonesia
SANDY	WONG	John Campbell P.S.	Windsor, ON
SHANNON	WONG	Richmond Hill H.S.	Richmond Hill, ON
ANGELA	WU	John F. Ross C.V.I.	Guelph, ON
HENRY	WU	University of Toronto Schools	Toronto, ON
JENNY	WU	Marc Garneau C.I.	North York, ON
KENNY	WU	West Vancouver S.S.	West Vancouver, BC
KEVIN	WU		North York, ON
SHUYI	WU	Acadia Jr. H.S.	Winnipeg, MB
TONY	WU		North York, ON
XIAOZE	WU		North York, ON
YUKUAN	XIE	Don Mills C.I.	North York, ON
ALAN	XU	ICAE	Troy, MI
BRIAN	XU	ICAE	Troy, MI
DENNIS	XU	Abbey Park H.S.	Oakville, ON
ZEN	YAN		Scarborough, ON

Name/Nom		School/École	Location/Endroit
BOB	YANG	Sir Winston Churchill S.S.	Vancouver, BC
BYRON	YANG	Moscrop S.S.	Burnaby, BC
CARLA	YANG	Seaquam S.S.	Delta, BC
ISABELLE	YANG	Don Mills C.I.	North York, ON
SIQI	YANG	Pinetree S.S.	Coquitlam, BC
YI	YANG	Moscrop S.S.	Burnaby, BC
DENNIS	YE	Sir John A. Macdonald C.I.	Scarborough, ON
CYNTHIA	YEUNG	Holy Trinity School	Richmond Hill, ON
MEHMET	YILDIZ	Tevitol H.S.	Gebze, Turkey
TONY	YIN	Agincourt C.I.	Scarborough, ON
TED	YING	The Woodlands School	Mississauga, ON
JUSTIN	YTURZAETA	Math Trainers Guild of Philippines	Zamboanga City, Philippines
ALLEN	YU	Marc Garneau C.I.	North York, ON
LUCY	YU	Sir John A. Macdonald C.I.	Scarborough, ON
RAYMOND	YU	University of Toronto Schools	Toronto, ON
REENA	ZHAN	University of Toronto Schools	Toronto, ON
BOHAN	ZHANG	Marc Garneau C.I.	North York, ON
CHARLENE	ZHANG	Gleneagle S.S.	Coquitlam, BC
JASON	ZHANG	Pleasant View Jr. H.S.	North York, ON
ZHUOWEI	ZHANG	West Point Grey Academy	Vancouver, BC
KAI XI	ZHAO	E.S. St. Luc	Montreal, QC
RAY	ZHAO	Dr. Norman Bethune C.I.	Scarborough, ON
DAVID	ZHENG	New Westminster S.S.	New Westminster, BC
JOSEPH	ZHOU	Vincent Massey S.S.	Windsor, ON
WILLIAM	ZHOU	Britannia S.S.	Vancouver, BC
XINYANG	ZHOU	London Central S.S.	London, ON
YEXINHAO	ZHOU		North York, ON
ANTONIA	ZHU	St. John's-Ravenscourt School	Winnipeg, MB
HENRY	ZHU	Waterloo C.I.	Waterloo, ON
ROBERT	ZHU	Iroquois Ridge H.S.	Oakville, ON

The top 25% of the competitors in each of the three Contests were divided into three categories: Gold Standard, Silver Standard and Bronze Standard, in the ratio 1 : 2 : 3. The names of the those students achieving the Gold Standard (that is, scoring in roughly the top 4%) are listed alphabetically below for each Contest.

Les candidats qui se classent dans le premier quart de classement dans chacun des trois concours ont été répartis en trois catégories: le niveau or, le niveau argent et le niveau bronze, selon le ratio 1 : 2 : 3. Le nom des étudiants qui ont obtenu le niveau or (c'est-à-dire ceux qui se classent parmi les premiers 4 p. 100) est donné par ordre alphabétique ci-dessous pour chaque concours.

Name/Nom		School/École	Location/Endroit
YONG JIN	AHN	Chinese Int'l School	Braemar Hill, Hong Kong
HYOJI	AN	Esquimalt Community School	Victoria, BC
SEUNGJIN	AN	St. Andrew's College	Aurora, ON
HARRY	BANG	Vincent Massey S.S.	Windsor, ON
ARSHIA	BEIGI	West Vancouver S.S.	West Vancouver, BC
MEHMET	BESIKCI	Tevitol H.S.	Gebze, Turkey
UJWAL	BHARATH	ICAE	Troy, MI
MATTHEW	BRENNAN	Upper Canada College	Toronto, ON
XIANGE	CAI	Shenzhen College of Int'l Education	Shenzhen, China
HAZAL	CAN	Tevitol H.S.	Gebze, Turkey
YIQI	CAO	Bayview S.S.	Richmond Hill, ON
BENJAMIN	CHASNOV	Chinese Int'l School	Braemar Hill, Hong Kong
ALLEN	CHEN	Ridley College	St Catharines, ON
BENJAMIN	CHEN	Unionville H.S.	Markham, ON
EDREA	CHEN	Britannia S.S.	Vancouver, BC
GREGORY	CHEN	Thornhill S.S.	Thornhill, ON
YANG	CHEN	Fuyuan School	Shenzhen, China
CHARLIE	CHENG	Western Canada H.S.	Calgary, AB
JI	CHENG	Concord College of Sino-Canada	Shenzhen, China
SEAN	CHENG	Math Trainers Guild of Philippines	Zamboanga City, Philippines
RAYMOND	CHO	West Vancouver S.S.	West Vancouver, BC
KENNETH	CO	Math Trainers Guild of Philippines	Zamboanga City, Philippines
XIAOYU	DENG		North York, ON
RICHARD	DU		North York, ON
XIAOHAN	DU	Vaughan Road Academy	York, ON
JIAYAO	FAN	E.S. St. Luc	Montreal, QC
ZHIHAO	FAN	Henan Experimental H.S.	Zhengzhou, China
LUKAS	FEHR	Walter Murray C.I.	Saskatoon, SK
YIHUI	FENG	E.S. St. Luc	Montreal, QC
TAL	FRIEDMAN	Thornhill S.S.	Thornhill, ON
HARRY	GO	R.E. Mountain S.S.	Langley, BC
MALAN	GOONEWARDENA	Lincoln Community School	Accra, Ghana
CHENGKAI	GU	Beijing Concord College of Sino-Canada	Beijing, China
LUCY	GU	Grand Canadian Academy	Nanjing, China
JEREMIAH	GUNAWAN	Surya Institute	Tangerang, Indonesia
MIN SOO	HAN	Hillfield-Strathallan College	Hamilton, ON
MOHAMMAD	HEFDI	GCN International	Pamekasan, Indonesia
NURUL	HIDAYATI	GCN International	Pamekasan, Indonesia
LUIS	HONG SANCHEZ	Teda Int'l School	Tianjin, China
JINGCHAN	HU	Sir Winston Churchill S.S.	Vancouver, BC
KEVIN	HWANG	Seaquam S.S.	Delta, BC
SANASI	JAYAWARDENA	Bluevale C.I.	Waterloo, ON
DANIEL	JIANG	Western Canada H.S.	Calgary, AB
DONG	JIANG		Scarborough, ON
GU	JOLIN	Don Mills C.I.	North York, ON
CEM	KALKANLI	Tevitol H.S.	Gebze, Turkey
DONG WON	KANG	North Toronto C.I.	Toronto, ON

Name/Nom		School/École	Location/Endroit
CHRISTINA	KIM	St. Michael's Univ. School	Victoria, BC
JAE WON	KIM	Southridge School	Surrey, BC
JINSOO	KIM	Sir Frederick Banting S.S.	London, ON
NATHAN	KONG	Upper Canada College	Toronto, ON
BJORN	KWOK	Crescent School	North York, ON
SITE	L	Concord College of Sino-Canada	Shenzhen, China
NICHOLAS	LAI	Chinese Int'l School	Braemar Hill, Hong Kong
ALEX	LEE	Waterloo C.I.	Waterloo, ON
JAE MIN	LEE	Bayview S.S.	Richmond Hill, ON
JOSHUA	LEE	Crescent School	North York, ON
SEUNGWON	LEE	Southridge School	Surrey, BC
WILLIAM	LEE	St. Michael's Univ. School	Victoria, BC
ANDREW	LEUNG	Crescent School	North York, ON
BAI	LI	Henry Wise Wood Sr. H.S	Calgary, AB
GEORGE	LI	The Woodlands School	Mississauga, ON
HAO NAN	LI	Henan Experimental H.S.	Zhengzhou, China
JASON	LI	Bayview S.S.	Richmond Hill, ON
LORITA	LI	Moira S.S.	Belleville, ON
SIMON ANG	LI		North York, ON
MEGAN	LIANG	Western Canada H.S.	Calgary, AB
QI RAN KEN	LIAO	Albert Campbell C.I.	Scarborough, ON
ASHLEY	LIM	Toronto District Christian H.S.	Woodbridge, ON
HYUN SUK	LIM	Fieldstone Day School	North York, ON
HENG YU	LIN	E.S. St. Luc	Montreal, QC
JACOB	LIN	Washington H.S	Taiwan
JAMES	LIN	Western Canada H.S.	Calgary, AB
MANDY	LIN	Prince of Wales S.S.	Vancouver, BC
XI	LIN	Henan Experimental H.S.	Zhengzhou, China
HENRY	LIU	Sir Winston Churchill S.S.	Vancouver, BC
JOHNSON	LIU	L'Amoreaux C.I.	Scarborough, ON
YI	LIU	York Mills C.I.	North York, ON
YUE	LIU	Fort Richmond C.I.	Winnipeg, MB
DAVID	LU	ICAE	Troy, MI
FEIYU	LU	Bayview S.S.	Richmond Hill, ON
SEAN	LU	Vincent Massey S.S.	Windsor, ON
ANGELA	MA	University of Toronto Schools	Toronto, ON
HENRY	MORCO	Math Trainers Guild of Philippines	Zamboanga City, Philippines
ABDUL	MUNIF	GCN International	Pamekasan, Indonesia
MATTHEW	NG	St. Francis Xavier S.S.	Mississauga, ON
LIAM	PAKINGAN	Francis Libermann C.H.S.	Scarborough, ON
GREGORY	PARK	ICAE	Troy, MI
JAY	PARK	West Vancouver S.S.	West Vancouver, BC
JOHN	PARK	Pinetree S.S.	Coquitlam, BC
KEUNHYUNG	PARK	White Oaks S.S.	Oakville, ON
SANGMIN	PARK	Tashkent Int'l School	Tashkent, Uzbekistan
VIKRAM	PRASAD	ICAE	Troy, MI
MICHAEL	PRYSIAZNY	E.L. Crossley S.S.	Fonthill, ON
TERRY	PYUN	Richmond Hill H.S.	Richmond Hill, ON
HUNTER	QIN	Vincent Massey S.S.	Windsor, ON
YEJI	RHA	Burnaby Central S.S.	Burnaby, BC
KEVIN	SHEN	Sir Winston Churchill S.S.	Vancouver, BC
SIRUI	SHEN	Vincent Massey S.S.	Windsor, ON
TON NU	SHUY ANH	Vincent Massey S.S.	Windsor, ON
JOE	SU	Lisgar C.I.	Ottawa, ON
DAWEI	SUN	Beijing Concord College of Sino-Canada	Beijing, China
ZHEWEI	SUN	Vincent Massey S.S.	Windsor, ON

Name/Nom		School/École	Location/Endroit
JULIUS	SY	Math Trainers Guild of Philippines	Zamboanga City, Philippines
JANE	TAN	Burnaby South S.S.	Burnaby, BC
KEEFE	TAN	Math Trainers Guild of Philippines	Zamboanga City, Philippines
DAVID	TANG	Western Canada H.S.	Calgary, AB
HENRY	TANG	Bayview S.S.	Richmond Hill, ON
JORDAN	TEITELBAUM	Tanenbaum CHAT	Maple, ON
MONICA	VANYA SANTOSO	Surya Institute	Tangerang, Indonesia
EMILIO	VERDUGO PAREDE	Resurrection C.S.S.	Kitchener, ON
ELLEN	WANG	Marc Garneau C.I.	North York, ON
HAN	WANG	Beijing Concord College of Sino-Canada	Beijing, China
OSCAR	WANG	Chinese Int'l School	Braemar Hill, Hong Kong
YIDING	WANG	Fraser Heights S.S.	Surrey, BC
YIJIE	WANG	Henan Experimental H.S.	Zhengzhou, China
YIQIAO	WANG	Beijing Concord College of Sino-Canada	Beijing, China
YUNQING	WANG	University of Toronto Schools	Toronto, ON
ZOE	WANG	Harry Ainlay H.S.	Edmonton, AB
ERWIN	WIBOWO	Surya Institute	Tangerang, Indonesia
JAY YOUNG	WOO	London Central S.S.	London, ON
GONGHAO	WU	York Mills C.I.	North York, ON
MICHAEL	WU	St. John's-Ravenscourt School	Winnipeg, MB
NEIL	WU	Marc Garneau C.I.	North York, ON
QINGXIAO	XIA	St. George's School	Vancouver, BC
CINDY	XIONG	Burnaby Central S.S.	Burnaby, BC
DAVID	XUE	Earl Haig S.S.	North York, ON
BILLY	YAO	Grand Canadian Academy	Nanjing, China
ALLEN	YIEH	Seaquam S.S.	Delta, BC
LI	YIN	William Lyon Mackenzie C.I.	North York, ON
JASON	YOO	Upper Canada College	Toronto, ON
HYUH SEUNG	YOU	West Vancouver S.S.	West Vancouver, BC
ELISHA	YU	Moscrop S.S.	Burnaby, BC
HAOZHI	ZHANG	Shenzhen College of Int'l Education	Shenzhen, China
JUNCHEN	ZHANG	Pierre Elliott Trudeau H.S.	Markham, ON
KEXIN	ZHANG	Prince of Wales S.S.	Vancouver, BC
MINHAO	ZHANG	Henan Experimental H.S.	Zhengzhou, China
STEVEN	ZHANG	West Vancouver S.S.	West Vancouver, BC
JONATHAN	ZHAO	North Toronto C.I.	Toronto, ON
EREAL	ZHONG	Grand Canadian Academy	Nanjing, China
HENRONG	ZHOU	Shenzhen College of Int'l Education	Shenzhen, China
JACKY	ZHOU	Lord Byng S.S.	Vancouver, BC
KEVIN	ZHOU	Woburn	Scarborough, ON
SHIJIE	ZHOU	Hillfield-Strathallan College	Hamilton, ON
YI CHEN	ZHOU	Thornhill S.S.	Thornhill, ON
JIALIN	ZHU	Unionville H.S.	Markham, ON
RUNXING	ZHU	Jarvis C.I.	Toronto, ON
YIFU	ZHU	Shenzhen College of Int'l Education	Shenzhen, China

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Name/Nom	School/École	Location/Endroit
SCOTT	ADAMS	Walter Murray C.I.
BARDIA	BEIGI	West Vancouver S.S.
ANDREA	BOOTSMA	St. Mary's H.S.
VITALIK	BUTERIN	The Abelard School
WENDY	CAI	Richmond Green S.S.
XUESI	CAI	E.S. St. Luc
HARRIS	CHAN	St. Robert C.H.S.
BRIAN	CHAU	Prince of Wales S.S.
YIDUO	CHEN	Wuxi Guanghua Private School
ZHOU BO	CHEN	St. George's School
JUN	CHO	Resurrection C.S.S.
CHARLIE	CHOI	York Mills C.I.
WILLIAM	CHOI	Iroquois Ridge H.S.
WONJOHN	CHOI	St. Francis Xavier S.S.
DANIEL	CHONG	A.B. Lucas S.S.
NEIL	CHUA GOY	Math Trainers Guild of Philippines
AMALIA	CONG	London Central S.S.
SARAH JANE	CUA	Math Trainers Guild of Philippines
DYLAN	DAY	J.L. Ilsley H.S.
FREDERICK	DING	Richmond Hill H.S.
JACK	DING	Don Mills C.I.
JASMINE	DING	William Lyon Mackenzie C.I.
JUNLI	DING	Sentinel S.S.
LIQING	DING	Branksome Hall
ALEX	FAN	A.Y. Jackson S.S.
JIMMY	FANG	St. Robert C.H.S.
JIAYUE	GAO	Sir Winston Churchill S.S.
JINGYI	GAO	Ridley College
LANXIN	GAO	A.Y. Jackson S.S.
ZHENYUAN	GAO	Wuxi Guanghua Private School
MELODY	GUAN	University of Toronto Schools
LINCOLN	GUO	University of Toronto Schools
SHUYANG	GUO	Pinetree S.S.
SIYAN	GUO	Beijing Concord College of Sino-Canada
JIMMY	HE	University of Toronto Schools
NICOLE	HE	New Westminster S.S.
JIAYING	HOU	Beijing Concord College of Sino-Canada
ALICE	HU	West Vancouver S.S.
FAN	HUANG	Bell H.S.
BOWEN	JIANG	Vincent Massey S.S.
HEINRICH	JIANG	Vincent Massey S.S.
MIN	KANG	The Anglo-American School of Moscow
CAI	KEVIN	Carver C.H.S.
SUFYAN	KHAN	Earl Haig S.S.
GENESIS	KIM	Grand Canadian Academy
PAUL	KIM	St. George's School
TIAN	LAN	Northern S.S.
		Toronto, ON

Name/Nom		School/École	Location/Endroit
KEVIN	LAU	Richmond Hill H.S.	Richmond Hill, ON
LEILA	LEE	Riverside S.S.	Port Coquitlam, BC
SEUNGHWAN	LEE	Universal American School	Dubai, UAE
ALAN	LI	Westdale S.S.	Hamilton, ON
SHIDA	LI	E.S. St. Luc	Montreal, QC
SIMON	LI	Bayview S.S.	Richmond Hill, ON
SIYA	LI	Concord College of Sino-Canada	Shenzhen, China
TONG	LI	Guangdong Country Garden School	Foshan City, China
ZHUO	LI	Shenzhen College of Int'l Education	Shenzhen, China
ELIZABETH	LIAO	Westdale S.S.	Hamilton, ON
ZIJING	LIN	Bronte College Of Canada	Mississauga, ON
DAVID SIQI	LIU	Vincent Massey S.S.	Windsor, ON
RICHARD	LIU	University of Toronto Schools	Toronto, ON
SHUOLI	LIU	Glebe C.I.	Ottawa, ON
VICTOR	LIU	Dr. Norman Bethune C.I.	Scarborough, ON
VIVIAN	LIU	Dover Bay S.S.	Nanaimo, BC
YUHAO	LIU	Shenzhen College of Int'l Education	Shenzhen, China
JANENE	LOKEY	Chinese Int'l School	Braemar Hill, Hong Kong
MANNING	LU	Glebe C.I.	Ottawa, ON
KEN	LUO	Shenzhen College of Int'l Education	Shenzhen, China
MIAN	MA	West Vancouver S.S.	West Vancouver, BC
ZHIHAO	MAI	Vincent Massey S.S.	Windsor, ON
CHENYI	MAO	Don Mills C.I.	North York, ON
POURYA	MASOUDIAN	Earl Haig S.S.	North York, ON
GENYI	MENG	Shenzhen College of Int'l Education	Shenzhen, China
LINGYAO	MENG	Henan Experimental H.S.	Zhengzhou, China
KARTHIK	NATARAJAN	Sir Winston Churchill C.V.I.	Thunder Bay, ON
JUNHO	OH	Meadowridge School	Maple Ridge, BC
MICHAEL	OLIVER	O'Neill C.V.I.	Oshawa, ON
EDDIE	PARK	Western Canada H.S.	Calgary, AB
VICTOR	POPE	University of Toronto Schools	Toronto, ON
GINNY	QIU	Agincourt C.I.	Scarborough, ON
HAOLIAN	QUAN	Nancy Campbell C.I	London, ON
RITVIK	RAMKUMAR	Glenforest S.S.	Mississauga, ON
MENGYE	REN	Lord Byng S.S.	Vancouver, BC
JAMES	RICKARDS	Colonel By S.S.	Gloucester, ON
DA YUN	RONG	Boren Sino-Canadian School	Jiangmen, China
CHARLIE	SHEN	Pinetree S.S.	Coquitlam, BC
SUNNY	SHEN	Steveston London S.S.	Richmond, BC
CHARLIE	SHI	Grand Canadian Academy	Nanjing, China
JAHYUN	SHIN	Loretto Abbey C.S.S.	North York, ON
ALEX	SONG		Windsor, ON
SURAJ	SRINIVASAN	Fort Richmond C.I.	Winnipeg, MB
CHANG	SU	Western Canada H.S.	Calgary, AB
LINAN	SU	Shenzhen College of Int'l Education	Shenzhen, China
MIRINAE	SUN	Ernest Manning H.S.	Calgary, AB
SUSAN	SUN	West Vancouver S.S.	West Vancouver, BC
ZIJUN	TAN	Richmond Green S.S.	Richmond Hill, ON
DA	TANG	Vaughan S.S.	Thornhill, ON
SKY	TANG	Georges Vanier S.S.	North York, ON
NUTTAWUT	TARAPHAN	Lord Byng S.S.	Vancouver, BC
MING KAN	TO	Town Centre Montessori Private School	Markham, ON
SHELDON	TUNG	University of Toronto Schools	Toronto, ON
JACOB JOHN	VARUN	St. Robert C.H.S.	Thornhill, ON
JASON	WANG	Dover Bay S.S.	Nanaimo, BC
WEIKE	WANG	E.S. St. Luc	Montreal, QC

Name/Nom		School/École	Location/Endroit
XIAO FAN	WANG	Dr. Norman Bethune C.I.	Scarborough, ON
YAOU	WANG	St. Michael's University School	Victoria, BC
ZEYI	WANG	Concord College of Sino-Canada	Shenzhen, China
MUAN	WEI	Beijing Concord College of Sino-Canada	Beijing, China
YANG	WEN	Sir John A. Macdonald C.I.	Scarborough, ON
KRISJANIS	WHITTAKER LEE	University of Toronto Schools	Toronto, ON
SHERWIN	WONG	University of Toronto Schools	Toronto, ON
ADRIAN	WU	University of Toronto Schools	Toronto, ON
LIYU	WU	Henan Experimental H.S.	Zhengzhou, China
ZHENG RONG	WU	Math Trainers Guild of Philippines	Zamboanga City, Philippines
DI	XIAO	Lisgar C.I.	Ottawa, ON
RUI PHILIP	XIAO	Sir Winston Churchill S.S.	Vancouver, BC
SELINA	XIE	Moscrop S.S.	Burnaby, BC
ZUOQI	XIE	Nancy Campbell C.I.	London, ON
JEFF	XIONG	Moscrop S.S.	Burnaby, BC
FAN	XU	Lord Byng S.S.	Vancouver, BC
FANG	XU	Sentinel S.S.	West Vancouver, BC
ZEPENG	XU	Beijing Concord College of Sino-Canada	Beijing, China
YIXUAN	YAN	Prince of Wales S.S.	Vancouver, BC
FRANKLIN	YANG	Don Mills C.I.	North York, ON
LUCY	YANG	Sir William Mulock S.S.	Newmarket, ON
YUNG LIN	YANG	Northern S.S.	Toronto, ON
FAN	YIN	Vincent Massey S.S.	Windsor, ON
KEVIN	YU	Sentinel S.S.	West Vancouver, BC
OULIN	YU	E.S. St. Luc	Montreal, QC
STEVEN	YU	Pinetree S.S.	Coquitlam, BC
CHENG	ZENG	The Woodlands School	Mississauga, ON
RAYMOND	ZENG	Heritage Woods Secondary	Port Moody, BC
ERIC	ZHAN	University of Toronto Schools	Toronto, ON
HANGTIAN	ZHAN	Concord College of Sino-Canada	Shenzhen, China
CHENYU	ZHANG	Beijing Concord College of Sino-Canada	Beijing, China
JACK	ZHANG	St. Andrew's College	Aurora, ON
LILY	ZHANG	Cameron Heights C.I.	Kitchener, ON
QINGYUAN	ZHANG	Shenzhen College of Int'l Education	Shenzhen, China
TAYLOR	ZHANG	David Thompson S.S.	Vancouver, BC
TOM	ZHANG	York Mills C.I.	North York, ON
XIANGYU	ZHANG	Shenzhen College of Int'l Education	Shenzhen, China
MENG	ZHAO	Western Canada H.S.	Calgary, AB
ZHIHENG	ZHENG	Beijing Concord College of Sino-Canada	Beijing, China
ALLEN	ZHOU	Moscrop S.S.	Burnaby, BC
CONGYUN	ZHOU	Sentinel S.S.	West Vancouver, BC
XUEHAN	ZHOU	Shenzhen College of Int'l Education	Shenzhen, China
YIFANG	ZHU	Appleby College	Oakville, ON
ZHENBO	ZHU	Sentinel S.S.	West Vancouver, BC
JESSICA	ZOU	Centennial C.V.I.	Guelph, ON