

Canadian Mathematics Competition



An activity of The Centre for Education
in Mathematics and Computing,
University of Waterloo, Waterloo, Ontario

Concours canadien de mathématiques

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

2004 Results

Fryer Contest
(Grade 9)

Galois Contest
(Grade 10)

Hypatia Contest
(Grade 11)

2004 Résultats

Concours Fryer
(9^e année – Sec. III au Québec)

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

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

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The Competition Organization

Organisation du Concours

| | |
|---|---|
| Executive Committee / Comité exécutif | Barry Ferguson (Director / Directeur), Peter Crippin, Judith Korller, Ian VanderBurgh |
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| Computer Operation / Ordinateur | Steve Breen, University of Waterloo Matthew Oliver, University of Waterloo |
| Publications / Publications | Linda Schmidt, University of Waterloo |
| Preparation of Materials / Documentation | Linda Schmidt, University of Waterloo |
| French Edition / Version française | André Ladouceur, Réseau de l'est, Vanier Gérard Proulx, Collège Catholique Franco-Ouest, Ottawa |
| Technical Assistants / Adjoints à la technique | Joanne Kursikowski, Kim Schnarr, Kyra Keenan, Lindsay Stewart, Judy Fox |
| Validation Committee / Comité de validation | John Barsby, St. John's-Ravenscourt School, Winnipeg Jean Collins, (retired / retraité), Thornhill Tom Griffiths, (retired / retraité), London Frank Rachich (retired / retraité), Woodstock |

This will be posted in the near future
May 19, 2004

Executive Committee
Canadian Mathematics Competition

Comments on the Paper

Commentaires sur l'épreuve

Detailed comments on the problems from the 2004 Fryer, Galois and Hypatia Contests will be available in the early Fall.

Des commentaires détaillés sur les problèmes des concours Fryer, Galois et Hypatia 2004 seront disponibles au début de l'automne.

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 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 du 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 étudiant qui ont obtenu le niveau « or » (c'est-à-dire ceux qui se classent globalement parmi les premiers 4 p. 100) est donné par ordre alphabétique ci-dessous pour chaque concours.

| | | | |
|------------|--------------|--------------------------------|--------------------|
| NADEJDA | ANDREEV | MARC GARNEAU C.I. | DON MILLS, ON |
| MATTHEW | ARGABRITE | ACADEMY FOR GIFTED CHILDREN - | RICHMOND HILL, ON |
| CAROLINE | BOULOS | ASHBURY COLLEGE | OTTAWA, ON |
| TAYLOR | CA | HENRY KELSEY S.P.S. | AGINCOURT, ON |
| MICHAEL | CAI | BURNABY SOUTH S.S. | BURNABY, BC |
| CHRIS | CAMPBELL | ST. JOHN'S KILMARNOCK SCHOOL | BRESLAU, ON |
| JASON | CAO | STEPHEN LEACOCK C.I. | SCARBOROUGH, ON |
| ANSON | CHAN | PINETREE S.S. | COQUITLAM, BC |
| CHRYSTAL | CHAN | MARKHAM D.H.S. | MARKHAM, ON |
| CLEMENT | CHAN | UPPER CANADA COLLEGE | TORONTO, ON |
| SHELLEY | CHAN | HAVERGAL COLLEGE | TORONTO, ON |
| HARRY | CHANG | H.B. BEAL S.S. | LONDON, ON |
| NICHOLAS | CHANG | ST. GEORGE'S SCHOOL | VANCOUVER, BC |
| IAN | CHARLESWORTH | FRONTENAC S.S. | KINGSTON, ON |
| JAMES | CHEN | ST. GEORGE'S SCHOOL | VANCOUVER, BC |
| NATHAN | CHEUNG | CRESCENT SCHOOL | WILLOWDALE, ON |
| DAVIN | CHOI | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY IN |
| PETER | CHOI | PORT MOODY S.S.S. | PORT MOODY, BC |
| ROZALYN | CHOK | SENTINEL S.S. | WEST VANCOUVER, BC |
| DEVIN | CHOLLAK | TOM BAINES SCHOOL | CALGARY, AB |
| CANDY | CHOU | BURNABY SOUTH S.S. | BURNABY, BC |
| JONATHAN | CHUA | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY IN |
| NELLIE | CHUA | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY IN |
| ANTHONY | CHUANG | CHARLES E. LONDON S.S. | RICHMOND, BC |
| ALEXANDRA | CLARK | PINE RIDGE S.S. | PICKERING, ON |
| WASHINGTON | CO | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY IN |
| MATTHEW | CONWAY | NORTHERN S.S. | TORONTO, ON |
| SEAN | CRUISE | VINCENT MASSEY S.S. | WINDSOR, ON |
| ARTHUR | DA SILVA | VANCOUVER COLLEGE H.S. | VANCOUVER, BC |
| RAFAL | DITTWALD | MARY WARD C.S.S | SCARBOROUGH, ON |
| AU | DUSTIN | FRONTENAC S.S. | KINGSTON, ON |
| ANDREW | EVDOKIMOV | SIR WINSTON CHURCHILL S.S. | VANCOUVER, BC |
| TREVOR | FAIREY | ST. GEORGE'S SCHOOL | VANCOUVER, BC |
| LIN | FEI | SIR WINSTON CHURCHILL S.S. | VANCOUVER, BC |
| DAVID | GAMBIN | CHAMINADE COLLEGE SCHOOL | TORONTO, ON |
| LU | GAO | WESTDALE S.S. | HAMILTON, ON |
| VIRGIL | GARCIA | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY IN |
| KIRSTEN | GRANT | GLEBE COLLEGIATE INSTITUTE | OTTAWA, ON |
| ALAN | GUO | O' NEILL C.V.I. | OSHAWA, ON |
| OLIVIA | HE | HIGHLAND J.H.S. | NORTH YORK, ON |
| SAM | HEINRICHS | WESTGATE MENNONITE C.I. | WINNIPEG, MB |
| CONRAD | HO | UPPER CANADA COLLEGE | TORONTO, ON |
| JEREMY | HOSKINS | HENRY G. IZATT MIDDLE SCHOOL | WINNIPEG, MB |
| ROBERT | HSIEH | ST. GEORGE'S SCHOOL | VANCOUVER, BC |
| SHERRY | HU | DR. NORMAN BETHUNE C.I. | SCARBOROUGH, ON |
| ALAN | HUANG | ICAE | TROY IN |

Fryer - Gold Standard

Palmarès individuel - Fryer

| | | | |
|------------|------------|--------------------------------|--------------------|
| EDWARD | HUANG | WINDERMERE S.S. | VANCOUVER, BC |
| MARCEL | HUMELNICUU | TOM GRIFFITHS HOME SCHOOL | LONDON, ON |
| STEPHEN | HUNG | LISGAR C.I. | OTTAWA, ON |
| SCOTT | INNES | CRESCENT SCHOOL | WILLOWDALE, ON |
| KEN | JIN | WALTER MURRAY C.I. | SASKATOON, SK |
| MINGJUN | JIN | LISGAR C.I. | OTTAWA, ON |
| LEI | KANG | UPPER CANADA COLLEGE | TORONTO, ON |
| MIKE | KAPPS | THORNHILL S.S. | THORNHILL, ON |
| STEVEN | KARP | LORD BYNG S.S. | VANCOUVER, BC |
| TIMOTHY | KATO | WEST VANCOUVER S.S. | WEST VANCOUVER, BC |
| JACOB | KETTNER | GRANT PARK H.S. | WINNIPEG, MB |
| HYOUNGSUNG | KIM | CHINESE INTER. SCHOOL | BRAEMAR HILL IN |
| JENNIE | KIM | A.N. MYER S.S. | NIAGARA FALLS, ON |
| YOUNGJOONG | KIM | GLENFOREST S.S. | MISSISSAUGA, ON |
| JASMINE | KOCHAR | LO-ELLEN PARK S.S. | SUDBURY, ON |
| ANDY | KONG | VINCENT MASSEY S.S. | WINDSOR, ON |
| BRENDAN | KOVALIK | MARC GARNEAU C.I. | DON MILLS, ON |
| KELSEY | KUBLIK | ST. JEAN BREBEUF | CALGARY, AB |
| ADRIAN | KWOK | UPPER CANADA COLLEGE | TORONTO, ON |
| SHELDON | KWOK | CRESCENT SCHOOL | WILLOWDALE, ON |
| ADRIEL | LAM | SENTINEL S.S. | WEST VANCOUVER, BC |
| CHIARA | LANUZA | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY IN |
| BARNABAS | LEE | CHINESE INTER. SCHOOL | BRAEMAR HILL IN |
| CLINTON | LEUNG | ACADEMY FOR GIFTED CHILDREN - | RICHMOND HILL, ON |
| AMIA | LIU | SIR WINSTON CHURCHILL S.S. | VANCOUVER, BC |
| CHERYL | LIU | THE WOODLANDS S. | MISSISSAUGA, ON |
| SHERRY | LIU | DAVID THOMPSON S.S. | VANCOUVER, BC |
| TOMMY | LIU | SIR JOHN A. MACDONALD C.I. | AGINCOURT, ON |
| OLIVIA | LIUFU | SIR WINSTON CHURCHILL S.S. | VANCOUVER, BC |
| TYLER | LONGO | UPPER CANADA COLLEGE | TORONTO, ON |
| ERIC | LU | BURNABY SOUTH S.S. | BURNABY, BC |
| JOCELYN | LUK | HAVERGAL COLLEGE | TORONTO, ON |
| JOSEPH | LUK | CHINESE INTER. SCHOOL | BRAEMAR HILL IN |
| WEI | LUN | THE WOODLANDS S. | MISSISSAUGA, ON |
| BENSON | LUNG | ACADEMY FOR GIFTED CHILDREN - | RICHMOND HILL, ON |
| ALBERT | LYU | CHINESE INTER. SCHOOL | BRAEMAR HILL IN |
| ZHONGCHEN | MA | VINCENT MASSEY S.S. | WINDSOR, ON |
| KATE | MAGUIRE | AURORA HIGH SCHOOL | AURORA, ON |
| LISA | MAI | VINCENT MASSEY S.S. | WINDSOR, ON |
| HANSON | MAK | CRESCENT SCHOOL | WILLOWDALE, ON |
| HOWARD | MENG | SIR WINSTON CHURCHILL S.S. | VANCOUVER, BC |
| DANIELA | MIAO | F. E. OSBORNE H.S. | CALGARY, AB |
| PATRICIA | MIRAVITE | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY IN |
| ROBBIE | MITCHNICK | CRESCENT SCHOOL | WILLOWDALE, ON |
| NATHALIE | MOON | E.S.C. MARIE-RIVIER | KINGSTON, ON |
| JAMIE | MOORE | ST. JOHN' S-RAVENSCOURT SCHOOL | WINNIPEG, MB |
| JACK | MORTON | FRONTENAC S.S. | KINGSTON, ON |
| WILL | NEDIGER | LONDON CENTRAL S.S. | LONDON, ON |
| JASON | NG | ERIC HAMBER S.S. | VANCOUVER, BC |
| BONVIN | NUQUI | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY IN |
| RAY JOHN | PAMILLO | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY IN |
| HEEJIN | PARK | HAVERGAL COLLEGE | TORONTO, ON |
| JONATHAN | PARK | WALNUT GROVE S.S. | LANGLEY, BC |
| PETER | PARK | UPPER CANADA COLLEGE | TORONTO, ON |
| BLAKE | PARSONS | CRESCENT SCHOOL | WILLOWDALE, ON |
| ANUPAMA | PRASAD | ICAE | TROY IN |

Fryer - Gold Standard

Palmarès individuel - Fryer

| | | | |
|-----------|----------------|--------------------------------|-------------------|
| ANDREW | PRJIBELSKI | GILES SCHOOL | TORONTO, ON |
| XIAO | QIAO | VINCENT MASSEY S.S. | WINDSOR, ON |
| AAKASH | RAVI | THE WOODLANDS S. | MISSISSAUGA, ON |
| CHRISTINA | REN | VINCENT MASSEY S.S. | WINDSOR, ON |
| ADITYA | SATHI | ICAE | TROY IN |
| WILLIAM | SAUNDERS | WATERLOO C.I. | WATERLOO, ON |
| JONATHAN | SCHNEIDER | ACADEMY FOR GIFTED CHILDREN - | RICHMOND HILL, ON |
| ASHER | SEGEL BROWN | EARL OF MARCH S.S. | KANATA, ON |
| BALA | SEKARAN | ICAE | TROY IN |
| KRITHIKA | SHANMUGASUNDAR | | ICAE TROY IN |
| TAL | SHESAF | ST. JOHN' S-RAVENSCOURT SCHOOL | WINNIPEG, MB |
| DANNY | SHI | WINDERMERE S.S. | VANCOUVER, BC |
| JORDAN | STOSKY | MADELEINE D' HOUET SCHOOL | CALGARY, AB |
| CHEN | SUN | TOM GRIFFITHS HOME SCHOOL | LONDON, ON |
| JONATHAN | SUN | NORTHERN S.S. | TORONTO, ON |
| MONGNING | SUN | VINCENT MASSEY S.S. | WINDSOR, ON |
| DARREN | SY | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY IN |
| MARK | TAN | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY IN |
| CATHERINE | TENNANT | BRANKSOME HALL SCHOOL | TORONTO, ON |
| RONALD | TRAC | WOBURN COLLEGIATE INSTITUTE | TORONTO, ON |
| DANIEL | TREMBLAY | CARLETON NORTH S.H.S. | BRISTOL, NB |
| GREG | TSANG | CRESCENT SCHOOL | WILLOWDALE, ON |
| MATTHEW | VENGALIL | ICAE | TROY IN |
| AILEEN | VERSOZA | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY IN |
| MICHAEL | WAN | ERIC HAMBER S.S. | VANCOUVER, BC |
| DAVID | WANG | A.B. LUCAS S.S. | LONDON, ON |
| ROCKY | WANG | WALTER MURRAY C.I. | SASKATOON, SK |
| WEI | WANG | WATERLOO C.I. | WATERLOO, ON |
| NEIL | WILLIAMSON | T.A. BLAKELOCK H.S. | OAKVILLE, ON |
| NICOLE | WINSTANLEY | DRYDEN H.S. | DRYDEN, ON |
| ALEXANDER | WONG | CHINESE INTER. SCHOOL | BRAEMAR HILL IN |
| GEOFFREY | WONG | CRESCENT SCHOOL | WILLOWDALE, ON |
| SHARON | WONG | CHINESE INTER. SCHOOL | BRAEMAR HILL IN |
| VIVIEN | WONG | CHINESE INTER. SCHOOL | BRAEMAR HILL IN |
| CYRUS | WU | VINCENT MASSEY S.S. | WINDSOR, ON |
| AKSHAR | WUNNAVA | ICAE | TROY IN |
| BOBBY | XIAO | WALTER MURRAY C.I. | SASKATOON, SK |
| WEIXIAO | XIAO | PORT MOODY S.S.S. | PORT MOODY, BC |
| JEAN | XU | HIGHLAND J.H.S. | NORTH YORK, ON |
| HANK | YANG | WALTER MURRAY C.I. | SASKATOON, SK |
| MARY | YANG | HENRY KELSEY S.P.S. | AGINCOURT, ON |
| PETER | YANG | A.B. LUCAS S.S. | LONDON, ON |
| CHRISTINE | YE | MARC GARNEAU C.I. | DON MILLS, ON |
| ANDREW | YEUNG | CRESCENT SCHOOL | WILLOWDALE, ON |
| ANDREW | YIP | CHINESE INTER. SCHOOL | BRAEMAR HILL IN |
| HAYOUNG | YOO | WINDERMERE S.S. | VANCOUVER, BC |
| CLARA | YOON | ICAE | TROY IN |
| JIMMY | YU | DR. NORMAN BETHUNE C.I. | SCARBOROUGH, ON |
| JOCELYN | YU | HAVERGAL COLLEGE | TORONTO, ON |
| ANDREI | ZAHARIA | JARVIS C.I. | TORONTO, ON |
| DAVID | ZHANG | LISGAR C.I. | OTTAWA, ON |
| HANZHE | ZHANG | WESTDALE S.S. | HAMILTON, ON |
| KELSEY | ZHANG | VINCENT MASSEY S.S. | WINDSOR, ON |
| WAGO | ZHENG | SIR JOHN A. MACDONALD C.I. | AGINCOURT, ON |
| CATHERINE | ZHOU | DR. NORMAN BETHUNE C.I. | SCARBOROUGH, ON |
| BOWEI | ZHU | CHINESE INTER. SCHOOL | BRAEMAR HILL IN |
| KEVIN | ZHU | ICAE | TROY IN |
| FANGQIN | ZOU | VINCENT MASSEY S.S. | WINDSOR, ON |

Distribution of Marks - Distribution des points

Averages - Moyenne

| Distribution | Number | cumm. % | Question | Average |
|--------------|--------|---------|----------|---------|
| 35-40 | 243 | 7.84 | 1 | 7.8 |
| 30-34 | 899 | 36.83 | 2 | 8.3 |
| 25-29 | 900 | 65.85 | 3 | 6.9 |
| 20-24 | 588 | 84.81 | 4 | 3.5 |
| 15-19 | 288 | 94.10 | score | 26.4 |
| 10-14 | 117 | 97.87 | | |
| 0-9 | 66 | 100.00 | | |
| | 3101 | | | |

Please visit our web site at:

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to download the 2004 Fryer, Galois and Hypatia Contests, plus full solutions.

Veillez visiter notre site Web à

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pour télécharger les concours Fryer, Galois et Hypatie 2004, avec solutions complètes.

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 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 du 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 globalement parmi les premiers 4 p. 100) est donné par ordre alphabétique ci-dessous pour chaque concours.

| | | | |
|-----------|----------------|--------------------------------|---------------------|
| JEFFREY | BAER | ACADEMY FOR GIFTED CHILDREN - | RICHMOND HILL, ON |
| PETER | BAI | BURNABY SOUTH S.S. | BURNABY, BC |
| ALVIN | BELLEZA | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY, IN |
| ANURAG | BHALLA | NORTH ALBION C.I. | ETOBICOKE, ON |
| ANDREW | BRENNAN | DR. JOHN HUGH GILLIS SCHOOL | ANTIGONISH, NS |
| AENGUS | BRIDGMAN | KELVIN HIGH SCHOOL | WINNIPEG, MB |
| MIGUEL | CARINO | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY, IN |
| CONNIE | CHAN | BURNABY SOUTH S.S. | BURNABY, BC |
| KAREN | CHAN | DAVID THOMPSON S.S. | VANCOUVER, BC |
| BRIAN | CHEN | ASHBURY COLLEGE | OTTAWA, ON |
| HANBERT | CHEN | EAST YORK C.I. | TORONTO, ON |
| MO | CHEN | WINDERMERE S.S. | VANCOUVER, BC |
| RICK | CHEN | DR. NORMAN BETHUNE C.I. | SCARBOROUGH, ON |
| BILL | CHENG | WESTERN CANADA H.S. | CALGARY, AB |
| HANG | CHENG | E.S. ST-LUC | MONTREAL QC |
| YVONNE | CHENG | MARKHAM D.H.S. | MARKHAM, ON |
| KELVIN | CHEUNG | BAYVIEW SECONDARY SCHOOL | RICHMOND HILL, ON |
| GARY | CHIANG | SEAQUAM S.S. | NORTH DELTA, BC |
| SALLY | CHIU | DR. NORMAN BETHUNE C.I. | SCARBOROUGH, ON |
| RITWIK | CHOWDHURY | LORD BYNG S.S. | VANCOUVER, BC |
| AMANDA | CHU | WESTON C.I. | WESTON, ON |
| JUNIOR | CHUANG | SEAQUAM S.S. | NORTH DELTA, BC |
| JOHN | CLERIGO | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY, IN |
| DANIEL | COLLISTER | ST. JOHN' S-RAVENSCOURT SCHOOL | WINNIPEG, MB |
| MICHAEL | DAI | EARL HAIG S.S. | NORTH YORK, ON |
| NATHANIEL | DILLON SMITH | MARC GARNEAU C.I. | DON MILLS, ON |
| LIAM | EDGINTON GREEN | ST. JOHN' S-RAVENSCOURT SCHOOL | WINNIPEG, MB |
| MATTHEW | EWING | ST. JOHN' S-RAVENSCOURT SCHOOL | WINNIPEG, MB |
| LEI | FENG | CENTENNIAL C. & V.I. | GUELPH, ON |
| JOHN | GLEESON | CHRISTIAN BROTHERS COLLEGE | CORK, IN |
| LAUREN | GORDON | ACADEMY FOR GIFTED CHILDREN - | RICHMOND HILL, ON |
| IAN | GRUNDY | CRESCENT SCHOOL | WILLOWDALE, ON |
| YANQI | HAO | CENTENNIAL C. & V.I. | GUELPH, ON |
| CIAN | HARGRAVE | CHRISTIAN BROTHERS COLLEGE | CORK, IN |
| TEMPLE | HE | ICAE | TROY, IN |
| GRAHAM | HENDRA | NORTHERN S.S. | TORONTO, ON |
| NATALIE | HILBRECHT | PRESTON H.S. | CAMBRIDGE, ON |
| CHU AN | HO | CARIBOO HILL S.S. | BURNABY, BC |
| JUNBIN | HUANG | L' AMOREAUX C.I. | AGINCOURT, ON |
| KARTHIK | IYER | ICAE | TROY, IN |
| ELIZABETH | JIN | MARTINGROVE C.I. | ETOBICOKE, ON |
| ALEX | JOYCE | ST. CLEMENT' S SCHOOL | TORONTO, ON |
| MAYA | KACZOROWSKI | WESTDALE S.S. | HAMILTON, ON |
| DUO | KAN | PRESTON H.S. | CAMBRIDGE, ON |
| TRAVIS | KELLEY | SEYCOVE S.S. | NORTH VANCOUVER, BC |
| HUN TAE | KIM | ST. JOHN' S-RAVENSCOURT SCHOOL | WINNIPEG, MB |

Galois - Gold Standard

Palmarès individuel - Galois

| | | | |
|-----------|--------------|--------------------------------|--------------------|
| WANKI | KIM | SIR WINSTON CHURCHILL S.S. | VANCOUVER, BC |
| JUSTIN | KONG | MALVERN C.I. | TORONTO, ON |
| MIROSLAV | KOSTYUK | UPPER CANADA COLLEGE | TORONTO, ON |
| VIKTORIYA | KRAKOVNA | VAUGHAN ROAD ACADEMY | TORONTO, ON |
| STEVEN | KRYGER | ST. JOHN' S-RAVENSCOURT SCHOOL | WINNIPEG, MB |
| AMY | LAU | HAVERGAL COLLEGE | TORONTO, ON |
| CALVIN | LAU | BURNABY SOUTH S.S. | BURNABY, BC |
| HENRY | LAU | UPPER CANADA COLLEGE | TORONTO, ON |
| DANNY | LEE | ERIC HAMBER S.S. | VANCOUVER, BC |
| KEVIN | LEE | SOUTHRIDGE SCHOOL | SURREY, BC |
| MICHELLE | LEGAULT | ASHBURY COLLEGE | OTTAWA, ON |
| MARK | LI | SIR WINSTON CHURCHILL S.S. | VANCOUVER, BC |
| JUSTIN | LIANG | VINCENT MASSEY S.S. | WINDSOR, ON |
| SCOTT | LIN | MOSCROP SECONDARY SCHOOL | BURNABY, BC |
| KUANG YI | LIU | VINCENT MASSEY S.S. | WINDSOR, ON |
| SUNNY | LIU | SIR WINSTON CHURCHILL S.S. | VANCOUVER, BC |
| KE | LU | NORTHERN S.S. | TORONTO, ON |
| STEVEN | LUO | MAGEE SECONDARY SCHOOL | VANCOUVER, BC |
| KEVIN | MA | DR. NORMAN BETHUNE C.I. | SCARBOROUGH, ON |
| RICHARD | MA | VINCENT MASSEY S.S. | WINDSOR, ON |
| RAMON | MARFIL | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY, IN |
| JOHN | MCINNES | ST. MARY' S H.S. | OWEN SOUND, ON |
| YING | MENG | WOBURN COLLEGIATE INSTITUTE | TORONTO, ON |
| JAN | MONZON | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY, IN |
| MARY | MU | WATERLOO C.I. | WATERLOO, ON |
| FARHAN | MURSHED | ICAE | TROY, IN |
| DAVID | PARK | T.A. BLAKELOCK H.S. | OAKVILLE, ON |
| YONGHO | PARK | RICHMOND HILL H.S. | RICHMOND HILL, ON |
| AKHIL | PILLAI | SIR WINSTON CHURCHILL S.S. | VANCOUVER, BC |
| SILVIU | PITIS | DON MILLS C.I. | DON MILLS, ON |
| EMMANUEL | PLAN | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY, IN |
| PETER | QIU | EARL OF MARCH S.S. | KANATA, ON |
| JOHN | RUAN | VINCENT MASSEY S.S. | WINDSOR, ON |
| YAKOV | SHKLAROV | HENRY WISE WOOD S.H.S. | CALGARY, AB |
| KALYAN | SREERAM | ICAE | TROY, IN |
| CHIARA | STELLACCI | SILVER HEIGHTS C.I. | WINNIPEG, MB |
| CHONG | SU | WATERLOO C.I. | WATERLOO, ON |
| JOHNNY | SU | ERIC HAMBER S.S. | VANCOUVER, BC |
| WAN PENG | SUN | SAINT JOHN H.S. | SAINT JOHN, NB |
| WEIMING | SUN | WESTMOUNT S.S. | HAMILTON, ON |
| JONATHAN | TAM | UPPER CANADA COLLEGE | TORONTO, ON |
| RAYMOND | TAN | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY, IN |
| LEO | TELOSA | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY, IN |
| JONATHAN | TO | UPPER CANADA COLLEGE | TORONTO, ON |
| LISA | TRANT | HAVERGAL COLLEGE | TORONTO, ON |
| KATHERINE | TSENG | MARKHAM D.H.S. | MARKHAM, ON |
| CLARENCE | TSO | UPPER CANADA COLLEGE | TORONTO, ON |
| SINAN | ULUSOY | WOBURN COLLEGIATE INSTITUTE | TORONTO, ON |
| ANDREW | WALTON | FORT RICHMOND C.I. | WINNIPEG, MB |
| ALEC | WATSON | ST. JOHN' S-RAVENSCOURT SCHOOL | WINNIPEG, MB |
| AMY | WERNER ALLEN | ICAE | TROY, IN |
| CHARLES | WONG | UPPER CANADA COLLEGE | TORONTO, ON |
| DANIEL | WONG | ERIC HAMBER S.S. | VANCOUVER, BC |
| BRIAN | WU | LORD BYNG S.S. | VANCOUVER, BC |
| BOYANG | XIA | PORT MOODY S.S.S. | PORT MOODY, BC |
| LINDA | XING | LONDON CENTRAL S.S. | LONDON, ON |
| SIYUAN | XING | VINCENT MASSEY S.S. | WINDSOR, ON |

Galois - Gold Standard

Palmarès individuel - Galois

| | | | |
|--------|------|----------------------------|------------------|
| JIMMY | YAN | SEAQUAM S.S. | NORTH DELTA, BC |
| YIYI | YANG | WESTERN CANADA H.S. | CALGARY, AB |
| ALAN | YE | SIR WINSTON CHURCHILL S.S. | VANCOUVER, BC |
| DANIEL | YE | SIR WINSTON CHURCHILL S.S. | VANCOUVER, BC |
| XIAOYU | ZHAO | THE WOODLANDS S. | MISSISSAUGA, ON |
| RYAN | ZHOU | ADAM SCOTT C.&V.I. | PETERBOROUGH, ON |
| XINGYE | ZHU | JARVIS C.I. | TORONTO, ON |

Distribution of Marks - Distribution des points

Averages - Moyenne

| Distribution | Number | cumm. % | Question | Average |
|--------------|--------|---------|----------|---------|
| 35-40 | 110 | 4.46 | | |
| 30-34 | 595 | 28.61 | 1 | 8.4 |
| 25-29 | 714 | 57.59 | 2 | 7.2 |
| 20-24 | 527 | 78.98 | 3 | 6.6 |
| 15-19 | 286 | 90.58 | 4 | 2.7 |
| 10-14 | 154 | 96.83 | score | 24.8 |
| 0-9 | 78 | 100.00 | | |

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pour télécharger les concours Fryer, Galois et Hypatie 2004, avec solutions complètes.

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 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 du 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 étudiant qui ont obtenu le niveau « or » (c'est-à-dire ceux qui se classent globalement parmi les premiers 4 p. 100) est donné par ordre alphabétique ci-dessous pour chaque concours.

| | | | |
|------------|------------|---------------------------------|--------------------|
| CHARLES W | ANG | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY, IN |
| ROBIN | BAJ | PORT CREDIT S.S. | MISSISSAUGA, ON |
| VIVEK | BEHERA | ICAE | TROY, IN |
| ADAM | CAMPIGOTTO | HOLY NAMES H.S. | WINDSOR, ON |
| JESSICA | CAO | SIR JOHN A. MACDONALD C.I. | AGINCOURT, ON |
| THAO | CAO | KELVIN HIGH SCHOOL | WINNIPEG, MB |
| LARRY | CHANG | SEAQUAM S.S. | NORTH DELTA, BC |
| QU | CHEN | HARRY AINLAY H.S. | EDMONTON, AB |
| TONY | CHEN | SEAQUAM S.S. | NORTH DELTA, BC |
| CALVIN | CHENG | ERIC HAMBER S.S. | VANCOUVER, BC |
| ALVIN | CHEUNG | BURNABY CENTRAL S.S. | BURNABY, BC |
| EUNAE | CHO | PORT CREDIT S.S. | MISSISSAUGA, ON |
| FRANCIS | CHUNG | A.B. LUCAS S.S. | LONDON, ON |
| ROBIN | DANG | WOODBRIIDGE COLLEGE | WOODBRIIDGE, ON |
| BO HONG | DENG | JARVIS C.I. | TORONTO, ON |
| XIAO | DONG | WESTERN CANADA H.S. | CALGARY, AB |
| JOHANN | DY | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY, IN |
| GWEN | ECHLIN | MACKENZIE H.S. | DEEP RIVER, ON |
| DOREEN | FAN | VINCENT MASSEY S.S. | WINDSOR, ON |
| DAN | FERGUSON | WESTERN CANADA H.S. | CALGARY, AB |
| ERIN | FRANKLIN | BLUEVALE C.I. | WATERLOO, ON |
| BOWEN | GAO | PORT MOODY S.S.S. | PORT MOODY, BC |
| JOYCE | GU | WATERLOO C.I. | WATERLOO, ON |
| ZHENG | GUO | WESTERN CANADA H.S. | CALGARY, AB |
| MICHEL | HAN | ICAE | TROY, IN |
| POLLY | HAN | WESTERN CANADA H.S. | CALGARY, AB |
| CAROL | HUANG | WOBURN COLLEGIATE INSTITUTE | TORONTO, ON |
| YOSHIHIDE | ITO | SIR WILLIAM MULOCK S.S. | NEWMARKET, ON |
| OLEG | IVRII | DON MILLS C.I. | DON MILLS, ON |
| LIU | JIANG | RIDGEMONT H.S. | OTTAWA, ON |
| MICKI | JIN | EARL HAIG S.S. | NORTH YORK, ON |
| CHRISTOPHE | JONES | A.B. LUCAS S.S. | LONDON, ON |
| OGDEN | JOSHUA | PACIFIC ACADEMY | SURREY , BC |
| LIYI | JU | GLEBE COLLEGIATE INSTITUTE | OTTAWA, ON |
| AUDREY | KERTESZ | HENRY WISE WOOD S.H.S. | CALGARY, AB |
| STEVE | KIM | PORT MOODY S.S.S. | PORT MOODY, BC |
| KEVIN | LAM | ST. JOHN' S-RAVENS COURT SCHOOL | WINNIPEG, MB |
| ERIC | LAU | SIR JOHN A. MACDONALD C.I. | AGINCOURT, ON |
| SAM | LEE | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY, IN |
| VICTOR | LEE | CRESCENT SCHOOL | WILLOWDALE, ON |
| VINCENT | LEE | VANCOUVER COLLEGE H.S. | VANCOUVER, BC |
| HAN HAN | LI | E.S. ST-LUC | MONTREAL, QC |
| RUIZHE | LI | LONDON CENTRAL S.S. | LONDON, ON |
| YAO | LI | WESTERN CANADA H.S. | CALGARY, AB |
| CHENEN | LIANG | WATERLOO C.I. | WATERLOO, ON |
| MEGAN | LICKLEY | LO-ELLEN PARK S.S. | SUDBURY, ON |

Hypatia - Gold Standard

Palmarès individuel - Hypatie

| | | | |
|------------|----------------|--------------------------------|--------------------|
| SANDY | LIU | MARTINGROVE C.I. | ETOBICOKE, ON |
| TAOTAO | LIU | VINCENT MASSEY S.S. | WINDSOR, ON |
| TIANYU | LIU | LISGAR C.I. | OTTAWA, ON |
| WILLIAM | MA | WATERLOO C.I. | WATERLOO, ON |
| CHAITANYA | MALLA | ICAE | TROY, IN |
| BOYAN | MARINOV | HARRY AINLAY H.S. | EDMONTON, AB |
| STEPHEN | MCCARTHY | DOVER BAY S.S. | NANAIMO, BC |
| MIKE | MCDONALD | WATERLOO C.I. | WATERLOO, ON |
| STEVEN | MELENCHUK | HENRY WISE WOOD S.H.S. | CALGARY, AB |
| NATALIE | MELTON | PORT ARTHUR C.I. | THUNDER BAY, ON |
| MATTHEW | MORRELL | SAINT JOHN H.S. | SAINT JOHN, NB |
| YUCHEN | MU | ST. JOHN' S-RAVENSCOURT SCHOOL | WINNIPEG, MB |
| NICK | MURDOCH | LONDON CENTRAL S.S. | LONDON, ON |
| PATRICK | NG | WOBURN COLLEGIATE INSTITUTE | TORONTO, ON |
| ATHENA | NGUYEN | KELVIN HIGH SCHOOL | WINNIPEG, MB |
| MIHAI | NICA | WATERLOO C.I. | WATERLOO, ON |
| ALEX | OH | OAKRIDGE S.S. | LONDON, ON |
| JENNIFER | PARK | BLUEVALE C.I. | WATERLOO, ON |
| MICHAEL | PARK | THORNHILL S.S. | THORNHILL, ON |
| SEUNG | PARK | WESTERN CANADA H.S. | CALGARY, AB |
| RICHARD | PENG | VAUGHAN ROAD ACADEMY | TORONTO, ON |
| CHARLES | QI | JARVIS C.I. | TORONTO, ON |
| CHAO | QU | DR. NORMAN BETHUNE C.I. | SCARBOROUGH, ON |
| LOHEETHA | RAGUPATHI | WOBURN COLLEGIATE INSTITUTE | TORONTO, ON |
| ROMAN | SHAPIRO | VINCENT MASSEY S.S. | WINDSOR, ON |
| JIMMY | SHEN | VINCENT MASSEY S.S. | WINDSOR, ON |
| DIFU | SHI | GLEBE COLLEGIATE INSTITUTE | OTTAWA, ON |
| JUSTIN | SHUM | MARKHAM D.H.S. | MARKHAM, ON |
| JASON | SIM | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY, IN |
| GEOFFREY | SIU | LONDON CENTRAL S.S. | LONDON, ON |
| CARL | SONG | LISGAR C.I. | OTTAWA, ON |
| JORDAN | STOPCIATI | LOCKERBY COMPOSITE SCHOOL | SUDBURY, ON |
| SARAH | SUN | HOLY TRINITY ACADEMY | OKOTOKS, AB |
| YUANHANG | SUN | VINCENT MASSEY S.S. | WINDSOR, ON |
| ALDIS | SUNG | ST. ANDREW' S COLLEGE | AURORA, ON |
| AMANDA | SZETO | CEDARBRAE C.I. | SCARBOROUGH, ON |
| YU | TANEBE | UPPER CANADA COLLEGE | TORONTO, ON |
| AUGUSTINE | TEJADA | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY, IN |
| TOMMY | TING | KELVIN HIGH SCHOOL | WINNIPEG, MB |
| JOEL | TOUSIGNANTBARN | WESTERN CANADA H.S. | CALGARY, AB |
| ERIC | TRAN | WESTERN CANADA H.S. | CALGARY, AB |
| KEVIN | USHEY | SEAQUAM S.S. | NORTH DELTA, BC |
| DAVID | WAN | MATH. TRAINERS GUILD OF PHILLI | ZAMBOANGA CITY, IN |
| DAVID SHUO | WANG | ROSS SHEPPARD COMP. H.S. | EDMONTON, AB |
| JENNY | WANG | DON MILLS C.I. | DON MILLS, ON |
| CHRIS | WATT BICKLEY | SIR WILFRID LAURIER H.S. | ORLEANS, ON |
| DAVID | WEBER | VINCENT MASSEY COLLEGIATE | WINNIPEG, MB |
| SHAUN | WHITE | VINCENT MASSEY S.S. | WINDSOR, ON |
| BEN | WILLARD | FOREST HEIGHTS C.I. | KITCHENER, ON |
| LOKSANG | WONG | CHINESE INTER. SCHOOL | BRAEMAR HILL, IN |
| VINCENT | WOO | ERIC HAMBER S.S. | VANCOUVER, BC |
| WENXIN | XU | DON MILLS C.I. | DON MILLS, ON |
| RUI | XUE | MARTINGROVE C.I. | ETOBICOKE, ON |
| ZIJIANG | YANG | JARVIS C.I. | TORONTO, ON |
| QI | YAO | GLENFOREST S.S. | MISSISSAUGA, ON |
| JIMMY PENG | YE | SIR JOHN A. MACDONALD C.I. | AGINCOURT, ON |

Hypatia - Gold Standard

Palmarès individuel - Hypatie

| | | | |
|--------|-------|----------------------|-----------------|
| THOMAS | YOOK | HOLY CROSS REG. H.S. | SURREY, BC |
| JOE | YU | EARL OF MARCH S.S. | KANATA, ON |
| ALLEN | ZHANG | BURNABY SOUTH S.S. | BURNABY, BC |
| BOYANG | ZHANG | THE WOODLANDS S. | MISSISSAUGA, ON |
| YUFEI | ZHAO | DON MILLS C.I. | DON MILLS, ON |
| TONY | ZHOU | GLENFOREST S.S. | MISSISSAUGA, ON |

Distribution of Marks - Distribution des points

Averages - Moyenne

| Distribution | Number | cumm. % |
|--------------|--------|---------|
| 35-40 | 61 | 2.74 |
| 30-34 | 414 | 21.36 |
| 25-29 | 480 | 42.92 |
| 20-24 | 418 | 61.74 |
| 15-19 | 315 | 75.90 |
| 10-14 | 259 | 87.54 |
| 0-9 | 277 | 100.00 |

| Question | Average |
|----------|---------|
| 1 | 7.8 |
| 2 | 6.9 |
| 3 | 4.6 |
| 4 | 2.1 |
| score | 21.4 |

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pour télécharger les concours Fryer, Galois et Hypatie 2004, avec solutions complètes.

**Fryer Contest
Concours Fryer**

| SCORE/ NOTE | RANK/ POSITION |
|----------------|-------------------|
| 40 | 1 |
| 39 | 16 |
| 38 | 35 |
| 37 | 58 |
| 36 | 107 |
| 35 | 161 |
| 34 | 244 |
| 33 | 359 |
| 32 | 523 |
| 31 | 708 |
| 30 | 933 |
| 29 | 1143 |
| 28 | 1360 |
| 27 | 1540 |
| 26 | 1726 |
| 25 | 1897 |
| 24 | 2043 |
| 23 | 2197 |
| 22 | 2336 |
| 21 | 2455 |
| 20 | 2546 |
| 19 | 2631 |
| 18 | 2706 |
| 17 | 2772 |
| 16 | 2822 |
| 15 | 2872 |
| 14 | 2919 |
| 13 | 2952 |
| 12 | 2979 |
| 11 | 2995 |
| 10 | 3017 |
| 9 | 3036 |
| 8 | 3051 |
| 7 | 3064 |
| 6 | 3074 |
| 5 | 3078 |
| 4 | 3084 |
| 3 | 3088 |
| 2 | 3093 |
| 1 | 3098 |
| 0 | 3099 |

**Galois Contest
Concours Galois**

| SCORE/ NOTE | RANK/ POSITION |
|----------------|-------------------|
| 40 | 1 |
| 39 | 5 |
| 38 | 16 |
| 37 | 26 |
| 36 | 42 |
| 35 | 72 |
| 34 | 111 |
| 33 | 174 |
| 32 | 286 |
| 31 | 426 |
| 30 | 554 |
| 29 | 706 |
| 28 | 845 |
| 27 | 999 |
| 26 | 1153 |
| 25 | 1279 |
| 24 | 1420 |
| 23 | 1542 |
| 22 | 1660 |
| 21 | 1767 |
| 20 | 1853 |
| 19 | 1947 |
| 18 | 2017 |
| 17 | 2077 |
| 16 | 2135 |
| 15 | 2198 |
| 14 | 2233 |
| 13 | 2267 |
| 12 | 2303 |
| 11 | 2337 |
| 10 | 2368 |
| 9 | 2387 |
| 8 | 2407 |
| 7 | 2424 |
| 6 | 2432 |
| 5 | 2444 |
| 4 | 2449 |
| 3 | 2455 |
| 2 | 2459 |
| 1 | 2461 |
| 0 | 2462 |

**Hypatia Contest
Concours Htpatie**

| SCORE/ NOTE | RANK/ POSITION |
|----------------|-------------------|
| 40 | 1 |
| 39 | 8 |
| 38 | 16 |
| 37 | 23 |
| 36 | 31 |
| 35 | 45 |
| 34 | 62 |
| 33 | 109 |
| 32 | 176 |
| 31 | 282 |
| 30 | 376 |
| 29 | 476 |
| 28 | 572 |
| 27 | 679 |
| 26 | 784 |
| 25 | 868 |
| 24 | 956 |
| 23 | 1044 |
| 22 | 1130 |
| 21 | 1222 |
| 20 | 1303 |
| 19 | 1374 |
| 18 | 1457 |
| 17 | 1523 |
| 16 | 1585 |
| 15 | 1632 |
| 14 | 1689 |
| 13 | 1741 |
| 12 | 1797 |
| 11 | 1848 |
| 10 | 1903 |
| 9 | 1948 |
| 8 | 1988 |
| 7 | 2026 |
| 6 | 2061 |
| 5 | 2097 |
| 4 | 2122 |
| 3 | 2142 |
| 2 | 2169 |
| 1 | 2193 |
| 0 | 2211 |

The listing above pertains to all competitors. / La liste précédente s'applique à tous les concurrents.

Student Enrolment by Province

Inscription par province

| | | | | | |
|----------------------|-----|-----------------------|------------------|------|----------------------|
| Newfoundland | 62 | Terre-Neuve | Ontario | 6657 | Ontario |
| Nova Scotia | 99 | Nouvelle-Écosse | Manitoba | 418 | Manitoba |
| New Brunswick | 152 | Nouveau-Brunswick | Saskatchewan | 92 | Saskatchewan |
| Prince Edward Island | 2 | Ile-du-Prince-Édouard | Alberta | 508 | Alberta |
| Quebec | 303 | Québec | British Columbia | 1622 | Colombie-Britannique |
| | | | Yukon | 1 | Yukon |

Total number of students enrolled / Nombre d'inscriptions individuelles: 10537