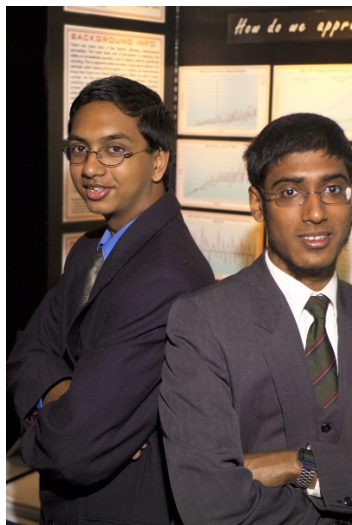


CWSF 2005 - Vancouver, British Columbia



Fuad Al-Amin, Tahbit Chowdhury

The Mathematical Perception: A Unified Theory

Division: Life Sciences

Category: Senior

Region: Toronto

City: Toronto, ON

School: Marc Garneau Collegiate Institute

Abstract: When presented with a set, the mind is able to analyze it quantitatively and assign a value. Variables affecting the ability to perceive cardinality (the total of a set) are explored using a series of experiments. A unified theory explaining the process of mathematical perception is formulated from statistical analysis.

| Awards | Value |
|--|----------------|
| Canadian Psychological Association Award - Senior Sponsor: Canadian Psychological Association | \$300 |
| UBC Science (Vancouver) Entrance Award Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: The University of British Columbia (Vancouver) | \$2 000 |
| The University of Western Ontario Scholarship Silver Medallist - \$1500 Entrance Scholarship Sponsor: University of Western Ontario | \$1 500 |
| Silver Medal - Life Sciences - Senior Sponsor: Pfizer Canada | \$700 |
| Total | \$4 500 |