

2006 Primary Math World Contest Tryouts Results

3/7/06

“Students who enjoy solving math problems, **born after 9/1/92, and attend 7th grade or lower** are invited to tryout for an International math competition held in Hong Kong in early July. **All expenses for five days including room, board, and local tours are covered (except airfare).** It is a unique opportunity for the Elementary school and Junior High students to have an academic and cultural exchange with children around the world.

To qualify, the student must take the tryout test consist of 20 word problems done in 45 mins without calculator on either February 6 and February 7. About top10% students will be selected to go through an 8-week training. Another test will be administered to select the final 4 to 8 students for the final training till June.”

One hundred and two 3rd to 7th graders representing 52 different Bay Area schools attended the Primary Math World Contest Tryouts contest described above. The tryouts statistics is in the following:

Total number of students took the test: 102

Number of schools: 52

Number of 7th graders : 24

Number of 6th graders : 39

Number of 5th graders : 25

Number of 4th graders : 11

Number of 3rd graders : 3

The average student age: 11

The maximum score: 20

The highest score: 18

The top 10% score: 14 or above

The average score: 7.13

The median score: 7

Congratulations to the following students who are selected for the next phase of Hong Kong Contest Preparation training:

Student Name	Grade	School
Abhijit Pujare	7	Kennedy Middle School
Alexander Ma	6	Miller Middle School
Amanda Chen	7	Chaboya Middle School
Archit Kulkarni	7	Roger Middle School
Elaine Tang	7	Kennedy Middle School
Lexing Tong	5	JFS school
Matthew Lin	5	JFS school
Patrick Yang	6	Harker
Ramya Rangan	6	Harker
Revanth Kosaraju	6	Harker

MathEdge

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Caption:

Back left to right: **Amanda Chen, Elaine Tang, Lexing Tong, Ramya Rangan, Coach Ewa Garg**
Front left to right: **Alexander Ma, Matthew Lin, Abhijit Pujare, Archit Kulkarni**
Not pictured: **Patrick Yang, Revanth Kosaraju**

Great to see the high number of girls made to the top 10%.

Examples of the tryouts problems:

- 1) MathEdge wanted to hire a good problem solver to work at the math center for just 10 days. When Peter applied, MathEdge offered him, "I will pay you \$1 on Day 1, \$2 on Day 2, \$4 on Day 3, \$8 on Day 4, and so on, doubling your pay each day." Peter laughed and walked out. How much Peter missed or could have earned for the job?

ANS: \$1023

SOL: For 10 days, the pay = $2^0 + 2^1 + 2^2 + 2^3 + 2^4 + \dots + 2^9 = 2^{10} - 1 = 1024 - 1 = \1023

- 2) How many digits does it take to write the numbers from **1 to 2006** consecutively?

ANS: 6917

SOL: 1 to 9 => 9 numbers with 1 digit => $9 \times 1 = 9$

10 to 99 => 90 numbers with 2 digits => $90 \times 2 = 180$

100 to 999 => 900 numbers with 3 digits => $900 \times 3 = 2700$

1000 to 2006 => 1007 numbers with 4 digits => $1007 \times 4 = 4028$

The total number of digits = $9 + 180 + 2700 + 4028 = 6917$

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