

2007 Primary Math World Contest Tryouts Awards and Results

3/8/07

“Students who enjoy solving math problems, **born after 9/1/93, and attend 7th grade or lower** are invited to tryout for an International math competition held in Hong Kong in July 2007. **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.

Team participation is by invitation only. Last year 48 teams and about 200 students from countries across the globe participated. To qualify to represent the USA-Silicon Valley teams to compete in Hong Kong, the students must take a **tryout test consisting of 20 logical and reasoning math problems in 45 minutes.** Based on the tryout results, the top10% students will be invited to go through an 8-week training period offered by *MathEdge*. Another test will be administered to select the final 4 to 8 students for the final training lasting until June.“

One hundred and twelve 3rd to 7th graders representing 48 different Bay Area schools attended the Primary Math World Contest Tryouts contest administered on **Jan 31 and Feb 1** at the **Cupertino Quinlan Center**. The tryouts statistics is in the following: **Total number of students took the test: 112**

The maximum score: 20

The average score: 7.48

The highest score: 17

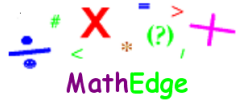
The median score: 7

	7th Grade	6th Grade	5th Grade	4th Grade	3rd Grade
No. of Students	14	29	44	15	10
Highest Score:	16	16	17	10	10
Average Score:	11.29	8.69	6.56	5.84	4.22
Median Score:	11.5	8	6	5	3

Nineteen “Math Wizard” trophies and four medals were awarded to the following students:

	7th Grade	6th Grade	5th Grade	4th Grade	3rd Grade
No. of Awards	5 trophies	5 trophies	5 trophies	2 trophies & 2 medals	2 trophies & 2 medals
Award Recipients	1 st : JIATONG HE (何佳桐) (Lawson, Cupertino)	1 st : MATTHEW LIN (林华) (JF Smith – Evergreen)	1 st : LEWIS CHEN (陈儒鑫) (Chadbourne – Mission Fremont)	1 st : ALEXANDER HONG (洪浩辰) (Discovery Charter – San Jose)	1 st : VIKRAM VASAN (Harker – San Jose)
	2 nd : Aaron ZHOU (Hopkins, Mission Fremont)	2 nd : KAREN LU (路凯琳) (Discovery Charter – San Jose)	2 nd : EDGAR CHEN (陈怡先) (Foothill – Saratoga)	1 st : RAHUL JAYARAMAN (Stratford – Sunnyvale)	2 nd : Naomi Jung (Pinewood – Los Altos)
	3 rd : GAUTAM BHAYANI (Redwood MS, Saratoga)	2 nd : AMANDA CHOW (周好饴) (St Andrew – Saratoga)	3 rd : ANSHUL RAMACHANDRAN (Regnart – Cupertino)	3 rd : OMKAR SAVANT (Stratford – Sunnyvale)	3 rd : Joshua Chan (陈卓翥) (Gomes – Mission Fremont)
	3 rd : PHILIP LIANG (JLS – Palo Alto)	2 nd : SPENCER YEE (余浩) (Ardenwood – Fremont)	3 rd : ELOY FERNANDEZ (Portal – Cupertino)	4 th : AYUSH MIDHA (Stratford – Sunnyvale)	4 th : SHANNON YU (于香浓) (Eaton – Cupertino)
	3 rd : JEFFREY ZHANG (张杰夫) (Bret Harte – San Jose)	5 th : NAMRATA GARG (Kennedy – Cupertino)	3 rd : ADITYA KOTECHA (Challenger – Fremont)		

Also, twenty award recipients would receive a souvenir bag donated by SingTao News.



Examples of the tryouts problems:

1) What is the smallest positive integer A such that the result of “2007 + A” when written out contains no 2’s, 0’s or 7’s among its digits?

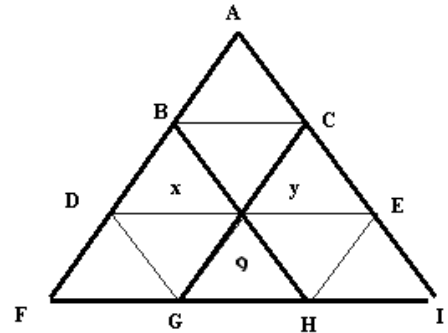
ANS: 1104

SOL: $2007 + 1104 = 3111$

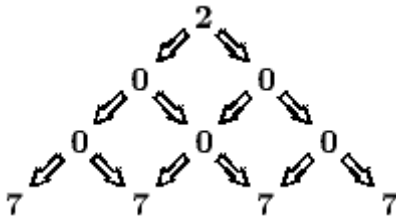
2) The number 9 has been placed into one of the small triangles. Place the digits 1 through 8, inclusive, into the other eight small triangles so that the sum of the four numbers in each of these three triangles: **ADE**, **BFH**, and **CGI**, is equal to 21. What is the value of $x + y$?

ANS: 9

SOL: The sum of the 9 small triangles is $(1+2+3 + \dots+9) = 45$. The sum of the 3 triangles = $21 \times 3 = 63$. $(x+y+9)$ is counted twice. Thus, $x+y = 63 - 45 - 9 = 9$



3) With how many ways can you get the number 2007 while following the arrows on the figure?



ANS: 8

SOL: $2^3 = 8$