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MEC M E M O R A N D U M
No. 11, s. 1981

ANNUAL NATIONAL MATHEMATICS COMPETITION

To: Bureau Directors
Regional Directors
Schools Superintendents
Presidents, State Colleges and Universities
Heads of Private Schools, Colleges and Universities
Vocational School Superintendents/Administrators

1. The Philippine Jaycees and the Mathematics Society of the Philippines, with the cooperation of the Ministry of Education and Culture, will conduct an annual national competition in Mathematics, the first of which will be held at the Philamlife Auditorium, United Nations Avenue, Metro Manila, on March 7, 1981. Details of the competition relative to participation, rules, mechanics and prizes are inclosed.

2. The purpose of the competition is to encourage more students to enroll in mathematics subjects and other mathematics-related courses like Physics, Chemistry, and Engineering which are all needed in the long-term scientific and technological development of our country.

3. The specific objectives of the contest are as follows:

a. To awaken greater interest in Mathematics among secondary students and teachers;

b. To provide the opportunity for students interested in Mathematics to meet each other in a friendly competition and thereby give them the incentive to aim at excelling in Mathematics;

c. To encourage teachers to inspire their students to greater achievements in Mathematics;

d. To raise the quality of secondary mathematics; and

e. To help achieve a relatively uniform secondary school mathematics curriculum.

4. In view of the worthy objectives of the competition which are supportive of the aims of the New Society, it is enjoined that school officials and teachers strongly encourage the participation of high school students in the competition.

5. For further information, contact Miss Maricar Gutierrez, Tel. No. 88-65-24.

6. Immediate dissemination of the contents of this Memorandum is desired.

(SGD.) ONOFRE D. CORPUZ
Minister of Education and Culture

Incl.:
As stated

Reference:
N o n e

Allotment: 1-2-3-4--(D.O. 1-76)

To be indicated in the Perpetual Index under the following subjects:

CONTESTS
Course of Study, COLLEGIATE
" " " , SECONDARY
OFFICIALS
SCHOOLS
SOCIETY or ASSOCIATIONS
STUDENTS
TEACHERS

NATIONAL MATHEMATICS COMPETITION

I. INTRODUCTION

The Metro Manila Math Competition (MMMC) was the brain child of a high school boy, Jay Olaquer of the Ateneo de Manila High School. Fascinated by and deeply interested in Mathematics, Jay studied much more mathematics than was required of him in school. By the time he finished high school, he could discuss Calculus better than most BS Math or AB Math graduates. He read math books and journals, and it was by much reading that he became familiar with the Hungarian, European, and American Mathematics Olympics. Inspired by those competitions and dissatisfied with the type and level of mathematics competitions he had often participated in, he decided it was time that a more challenging math quiz, worthy of the intellectual capacity of Filipino youths, be organized. And so towards the end of 1975, he drafted the Rules and Format of the First Metro Manila Math Competition.

In the introduction he wrote - "The Metro Manila Math Competition is an interscholastic event involving all interested schools in the metropolitant area, and is geared towards the identification and encouragement of great minds and intellects among the youth of today and the improvement of the quality of math instruction in secondary schools". This was how Jay conceived the MMMC - a challege to the youth. And, Metro Manila secondary students have risen up to this challenge.

The past competitions were particirated in only by the schools from Metro Manila. The seriousness and enthusiam of the competitiors have showed that the Filipino youth have a great potential awaiting to be tapped. The concern and encouragement of their teachers and administrators have indicated that these have recognized this potential and are ready to help their students make full use of it. The Mathematical Society of the Philippines and Asia Industries which have jointly made the past competitions possible have both dreamed of extending the same opportunity for participations to all high school students in the Philippines.

This year, the vision to make this contest nationwide, tapping not only schools from the Metropolitan Region, but also schools from all over the country, has been made possible by the generosity and dedication to the service of the country of the Philippine Jaycees who have entered into a partnership with the MSF to amke the contest a national affair.

II. OBJECTIVES OF THE COMPETITION

1. To awaken greater interest in mathematics among secondary students and teachers.
2. To provide the opportunity for students interested in mathematics to meet each other in a friendly competition and thereby give them an incentive to aim at excelling in mathematics.
3. To encourage teachers to inspire their students to greater achievements in mathematics.
4. To raise the quality of secondary mathematics instruction.
5. To help achieve a somewhat uniform secondary school mathematics curriculum.

I. CATEGORIES OF THE COMPETITION

To encourage the participants of the best students from both the private and public schools there are two categories in the competition:

Category A - for students of schools offering the MEC Curriculum (as revised by the Ist SEA Conference on Mathematical Education) of Math I, II, III and IV.

Category B - for students of schools offering the Elementary Algebra, Intermediate Algebra Geometry, and Advanced Algebra and Trigonometry sequence in their mathematics curriculum.

Schools may choose to field contestants in either category according to which curriculum they offer.

. WHO MAY PARTICIPATE

Any bonafide student from a recognized secondary school in the Philippines may be entered by his/her school.

Level IV - Fourth year students.

CONTEST RULES

A. Number of Contestants: Any secondary school may enter a team of three (3) students for Level IV in the Category determined by the mathematics curriculum.

B. Regional Competition: There will be a Regional Competition for Category A to determine the top team/individual to represent the Region in the Category A National Finals. There is no Regional Competition for Category B. The Regional Competition shall compose of two stages as follows:

a. Eliminations - all participants shall take a 2-hour, 50-item multiple choice examinations and a 1 1/2-hour test of three (3) honors questions. Each of the 50 items is worth 5 points and each of the three honors questions is worth 50 points.

Based on the results of the Eliminations, the eight (8) highest scoring individuals qualify for the Regional Finals. (A student may qualify for both the team and individual Finals).

b. Finals - the finals for both teams and individuals shall be an oral examination of three parts.

(1) In Part I, the following rules shall apply:

(a) There shall be a total of 15 questions to be solved mentally.

(b) For every question, each team/individual shall be given a slip of paper on which the answer and nothing more may be written. No computation by hand is allowed.

(c) Each question shall be read twice by the moderator. Twenty (20) seconds after the second reading, a signal will be given, after which no team/individual may write on their answer sheet. The slips of paper shall be immediately collected and given to the moderator who shall read off the answers.

(d) The answers shall be scored in the following manner:
- Each correct answer is worth 10 points.
- Each wrong answer merits a deduction of 5 points.
- No answer merits neither points nor deduction.

(2) In Part II, the following rules shall apply:

(a) There shall be a total of 10 questions.

(b) Paper on which computation may be done will be distributed. The time limit for each question is one minute.

(c) Each question will be read twice by the moderato immediately after which a go-signal is given for any team/individual to press his/her buzzer.

(d) Nobuzzer may be pressed before the signal is given. Violation will disqualify the individual/team from answering.

(e) The first team/individual to legally press the buzzer will be given the chance to answer the question orally.

If the individual fails to answer immediately after reception of the microphone, the team/individual shall merit a deduction corresponding.

(f) If the answer is wrong, other team/individuals are given the chance to answer.

(g) The answer shall be scored in the following manners:
- Each correct answer is worth 20 points.
- Each wrong answer merits a deduction of 10 points.
- No answer merits neither points nor deduction.

(3) In part III, the following rules shall apply:
(a) There shall be a total of 5 questions.
(b) Before each question is read by the moderator each team will be given a copy of the question. The question slip is to be opened only upon signal of the moderator which is before the first reading. Violation of this rule disqualifies the team/individual from answering.
(c) Each question shall be read twice.
(d) Each team/individual is given two minutes after the go signal to answer the question orally. Computation may be done on slip paper to be provided.
(e) Same as (c), (f) and (g) of Part II.
(f) The answers shall be scored in the following manner:
-Each correct answer is worth 30 points.
-Each wrong answer merits a deduction of 15 points.
- No answer merits neither points nor deduction.

C. National Finals:
1. The winning team at the Regional Final shall be the Regional Representative for the Team National Finals and the highest individual scorer at the Regional Individual Final shall comete at the Individual National Finals.
2. The rules for the National Finals shall be exactly the same as for the Regional Finals.

D. For Category B - there will be only National Finals.
All team individual contestants for Category B take the eliminations consisting of a-hours-50-item multiplechoice test and a 1-4/2-hour 3 honors questions test. All team/individuals from schools all over th country will be ranked and the ten (10) highest scoring teams and the ten (10) highest scoring individual scorers qualify for the National Finals. The type of questions and mechanics of the Finals for Category B will be the same as that for Category A.

VI. JUDGING OF WINNERS

A. Regional Finals:
The First three (3) teams/individuals with the highest composite scores will be declared the winners. The composite scores will be computed as follows:

Eliminations score	30%
Finals score	70%
Total	100%

In case of a tie, a tie-breaker question will be given to the contenders.

B. National Finals:
1. Category A: The first, second and third highest scoring team/individuals will be declared the winners. The ranking will be based on the National Finals alone.
2. Category B: The first three team/individuals with the highest composite scores will be declared the winners. The composite scores will be computed as follows.

Eliminations score	30%
Final Scores	70%
Total	100%

AWARDS

RE : REGIONAL LEVEL

CATEGORY A

TEAM WINNERS	1st Place	3 Gold Medals
	2nd Place	3 Silver Medals
	3rd Place	3 Bronze Medals
INDIVIDUAL WINNERS	1st Place	1 Gold Medal
	2nd Place	1 Silver Medal
	3rd Place	1 Bronze Medal
TOTAL	4 GOLD MEDALS	
	4 SILVER MEDALS	
	4 BRONZE MEDALS	

*1) 12 Medals

*2) 3 Plaque

*3) 3 Plaques for the team coaches

ATIONAL MATHEMATICS COMPETITION

Joint project of the Philippine Jaycees

&

Mathematical Society of the Philippines

ENTRY FORM

NAME OF SCHOOL _____

ADDRESS _____

Participants from our school belongs to

CATEGORY ___ A CATEGORY ___ B

	NAME OF STUDENTS	CODE NUMBER
1.	_____	
2.	_____	
3.	_____	
4.	_____ (Alternate)	

(The Alternate shall replace any of the 3 entries in case of necessity)

TEACHER-IN-CHARGE _____

N.B. Be sure that the student knows his/her code number.

This is to certify that the student contestants entered by this school are currently enrolled in the fourth year secondary (10th year)

_____
PRINCIPAL

YOUR TEST CENTER IS AT: _____

_____

ELIMINATIONS: February 14, 1981 REGIONAL FINALS: February 28, 1981

NATIONAL FINALS: March 7, 1981

Please detach the upper portion and mail or send personally entry form before February 7, 1981 to