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(Republic of the Philippines)
MINISTRI NG EDUKASYON, KULTURA AT ISPORTS
(MINISTRY OF EDUCATION, CULTURE AND SPORTS)
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MECS M E M O R A N D U M
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THE PHILIPPINE MATHEMATICS OLYMPIAD

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

1. The First Philippine Mathematics Olympiad (PMO) for secondary school students under the joint sponsorship of the Science Promotion Institute/National Science and Technology Authority (SPI-NSTA), the Mathematical Society of the Philippines (MSP) and the Ministry of Education, Culture and Sports will be launched this school year with the initial participation of National Capital Region and Region IV.
2. From school year 1965-66 the PMO shall be held for all regions of the country.
3. The objectives of the PMO are.
 - a. To stimulate the improvement of the quality of Mathematics education
 - (1) to awaken greater interest in mathematics among students and teachers
 - (2) to gain insight into the level of mathematics learned by Filipino high school students
 - (3) to provide an input to education decision-making.
 - b. To identify and motivate the mathematically gifted students
 - (1) to provide the opportunity for students interested in mathematics to meet each other in friendly competition and thereby give them an incentive to aim at excellence in mathematics
 - (2) to identify and give recognition to students with mathematical talents
 - c. To encourage the involvement of the public and private sectors in the concerted development of mathematics in the Philippines.

4. This PNO dry run which will be conducted in the NCR and Region IV consists of two stages.

- a. Stage I (Division Competition) - To be conducted on July 27, 1984 for the National Capital Region and in November 1984 for Region IV.
- b. Stage II (Regional Competition) - To be conducted on September 15, 1984 for the National Capital Region, if possible within the Education Week, and in February 1985 for Region IV.

N.B.: Specific dates for Region IV will be announced later.

5. Schools superintendents, heads of private schools, colleges and universities, private high school principals, division supervisors of mathematics, heads of mathematics departments and mathematics teachers should actively participate in the organization and conduct of the PNO at the school and division levels as soon as the PNO is implemented nationwide.

6. Regional directors, schools superintendents and all those concerned should start to undertake actions for effecting wide student participation in the PNO. They are responsible for setting of the date, selecting the venue, disseminating information and competition guidelines and results at the regional and division levels respectively.

7. For the information and guidance of all concerned the regional nature and guidelines for the conduct of PNO are inclosed with this Memorandum.

8. Any inquiries regarding details of the PNO may be addressed to the:

PNO National Secretariat
Science Clubs and Societies Development
Division/SPI
PTRI Bldg., Alcatraz, Taguig, Metro Manila

9. Participation in the Olympiad shall be authorized on official time for participants from public schools, while those from private schools should make the necessary arrangements with their respective school administrators.

10. It is requested that the contents of this Memorandum be widely disseminated as immediately as possible, especially to all schools in the NCR and Region IV for the implementation of this year's PNO dry run and to all regions in preparation for the 1985-1986 PNO.

(SGD.) JAIME C. LAYA
Minister

Incls.:

As stated

Reference:

N o n e

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

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

BUREAUS & OFFICES
Course of Study, SECONDARY
OFFICIALS
SOCIETY or ASSOCIATIONS

THE PHILIPPINE MATHEMATICAL OLYMPIAD

I. THE CONCEPT

The Philippine Mathematical Olympiad (PMO) is a national mathematics contest open to selected secondary school students in public and private schools. The competition will be in two stages. In the first stage of the competitions, math grades will be used as the basis for qualification. For the second stage of the competitions, qualification will be based on the student's performance in the first stage.

There will be separate competitions for year levels I, II, III and IV. There will also be a grouping of schools into two categories so that, all in all, there will be eight (8) separate competitions. Additionally, there will be competitions on the individual level and the school team level. However, the team competition will be confined to year levels III and IV only.

The PMO will be implemented on a pilot scale in 1984 and is scheduled for full implementation on a nationwide scale in 1985. Thereafter it shall be an annual event. The pilot runs of the PMO in 1984 will be held in two regions: the National Capital Region (NCR) in late July and Region IV later in the year.

II. SPONSORING AGENCIES:

Science Promotion Institute/
National Science and Technology Authority (SPI/NSAT)

Ministry of Education, Culture & Sports (MECS)

Mathematical Society of the Philippines (MSP)

The Math Olympiad will be led by a National Executive Committee headed by the NSRA Director-General. There will also be a PMO Technical Committee with representatives from the sponsoring agencies. The PMO Secretariat will be based at the Science Promotion Institute in Bicutan, Taguig.

III. OBJECTIVES OF THE PHILIPPINE MATH OLYMPIAD:

- A. To stimulate the improvement of the quality of mathematics education
 1. To awaken greater interest in mathematics among students and teachers
 2. To gain insight into the level of mathematics learned by Filipino high school students
 3. To provide an input to education decision-making
- B. To identify and motivate the mathematically gifted students
 1. To provide the opportunity for students interested in mathematics to meet each other in friendly competition and thereby give them an incentive to aim at excellence in mathematics

2. To identify and give recognition to students with mathematical talents
- C. To encourage the involvement of the public and private sector in the concerted promotion and development of mathematics education in the Philippines

IV. SCHEME OF CONDUCT AND GENERAL GUIDELINES

Participants shall be selected students of Philippine secondary schools, public and private, in year levels I, II, III, IV. There will be separate tests for each year level so that first year students will compete only with other first year students, etc. Additionally, participants shall be grouped into two categories, according to the classification of their school as defined below:

A. CLASSIFICATION OF SCHOOLS INTO TWO CATEGORIES:

1. CATEGORY A - - Secondary schools which admit first year students directly from the 6th grade and whose first year mathematics is mainly arithmetic.
2. CATEGORY B - - All other secondary schools will be in this category. In particular, the Philippine Science High School, the Manila Science High School and the Quezon City Science High School will be in Category B.

There shall be different sets of questions for the two categories although the method of conduct shall be the same. (With four year levels and two categories, there will be a total of eight different sets of questions. In effect, there will be competition in eight groups.)

Schools in Category A who would prefer to join the Category B competition may apply to do so. However, Category B schools may not join the Category A competition. (NOTE: When a school is in one category, all its four year levels will be classified in the same category.)

B. TWO STAGES OF COMPETITION:

Stage I (DIVISIONAL) - - This will be open to selected secondary students from year levels I to IV, in Category A and B. More specifically Stage I will be open to students with Math grades of 85% or equivalent, or better.

Stage II (REGIONAL) - - This stage will be held only for year levels III and IV, Category A and B. (For year levels I and II competition stops at Stage I.)

C. INDIVIDUAL AND TEAM COMPETITIONS:

There shall be two types of competition: individual and team.

1. **INDIVIDUAL COMPETITIONS AT STAGE I**

The individual competitions at Stage I is open to students in year levels I, II, III or IV with Math grades of 85% or its equivalent, or better.

With four year levels and two categories, A and B, there will be eight (8) sets of individual competition at Stage I.

2. **INDIVIDUAL COMPETITIONS AT STAGE II**

Individual contestants for Stage II will be picked from the top placers in Stage I. In particular, for each of Category A and B, the top ten placers based on an overall ranking of all Stage I participants in each of the year levels III and IV shall advance to Stage II. In addition, to ensure that each division shall be represented in Stage II, each division will be allowed to send its top participants.

With two year levels and two categories, A and B, there will be four (4) sets of individual competitions in Stage II.

3. **SCHOOL TEAM COMPETITION AT STAGE I**

The school team competition is open to secondary schools with at least three participants in Stage I. Each school team will consist of its top three participants in Stage I. (Team members need not be among those qualified in the individual competition in Stage II).

With four year levels and two categories, there will be eight (8) sets of team competitions in Stage I.

4. **SCHOOL TEAM COMPETITION AT STAGE II**

The participating teams for this stage will be picked from the top year level III and IV teams in Stage I. (There will be no team competition for year levels I and II at Stage II). In particular, for each category A and B, the top ten (10) teams based on an overall ranking of all Stage I teams shall advance to Stage II. In addition, to ensure that each division is represented in Stage II, each division will be allowed to send its top school team.

With two year levels and two categories, there will be four (4) sets of team competitions in Stage II.

D. **TEST TYPES**

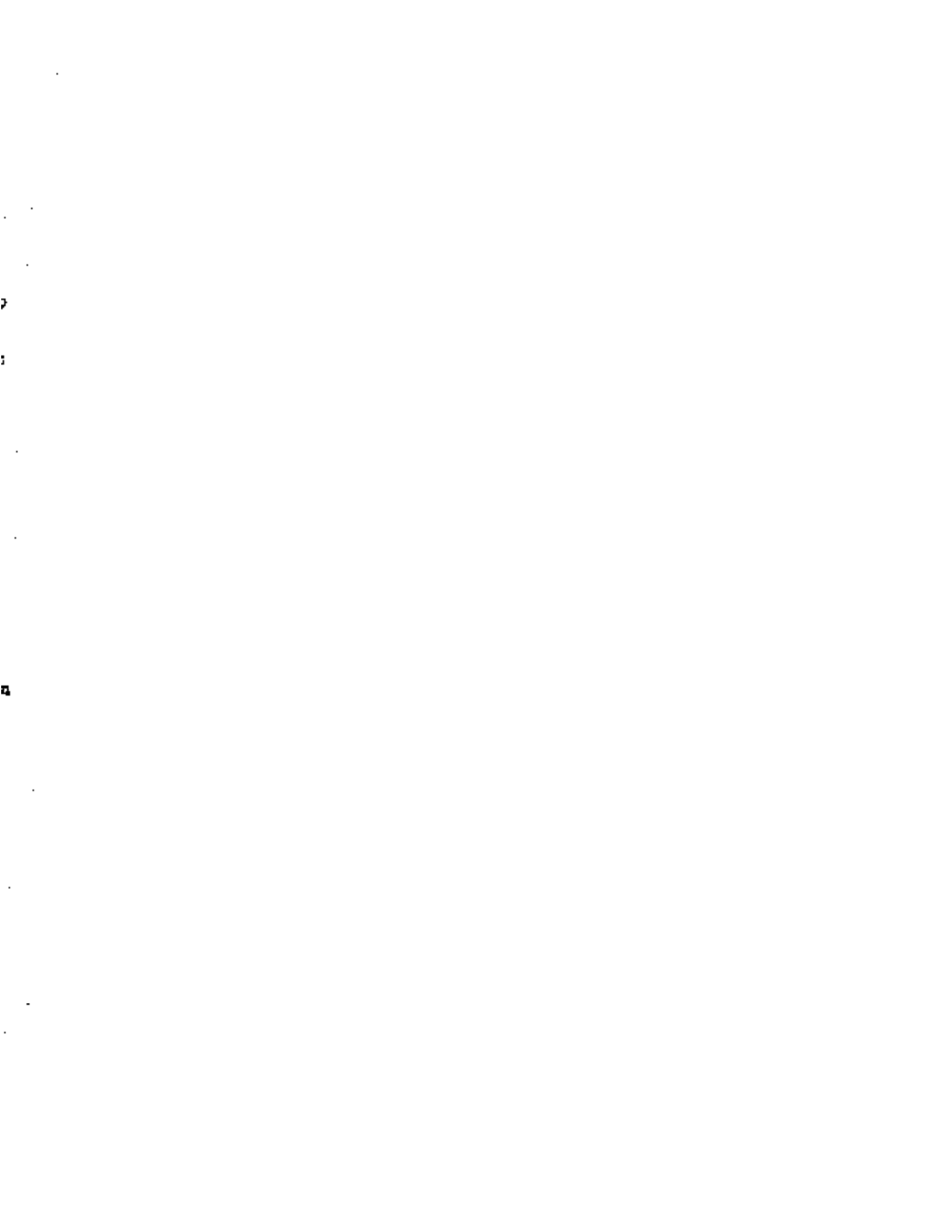
STAGE I : **DIVISIONAL STAGE** - Written exam, multiple choice 1 and 1/2 hours.

STAGE II : **REGIONAL STAGE**

A. **INDIVIDUAL COMPETITIONS** - Written exam, problem solving, 5 items, 1 and 1/2 hours.

B. **TEAM COMPETITIONS** - For public viewing. Questions and answers shall be orally presented. Teams shall be provided paper for scribbling.

1. 10 items, each to be answered in 30 seconds
2. 10 items, each to be answered in 1 minute
3. 5 items, each to be answered in 3 minutes



Each examination for each stage, in each year level and in each category will be prepared by the Mathematical Society of the Philippines.

B. SELECTION OF CERTIFICATE AWARDEES AND WINNERS

STAGE I : DIVISIONAL STAGE

INDIVIDUAL COMPETITION AWARDEES

Levels I, II, III and IV: Individuals whose scores are above a certain cutoff shall receive CERTIFICATES OF MERIT. The individual with the highest score will be declared DIVISION TOP-PLACER.

TEAM COMPETITION AWARDEES

The total score of the top 3 participants in each team shall be computed. School teams with total scores above a certain cutoff team score shall receive CERTIFICATES OF MERIT. The team with the highest score will be declared DIVISION TOP-PLACER.

STAGE II : REGIONAL STAGE

INDIVIDUAL WINNERS

The top 3 individuals with the highest scores in the stage II tests will be declared WINNERS. (NOTE: There will be four sets of winners -- one each for levels III and IV each of the two categories.)

V. MATHEMATICS COACHES

Mathematics coaches should be officially designated by participating schools, at most one per year level and at least one for each school.

VI. SCHEDULE FOR THE TWO PILOT RUN IN THE NATIONAL CAPITAL REGION

Stage I : DIVISIONAL STAGE - Friday, 27 July 1984

Venue : Pre-chosen schools in the NSCS divisions of Manila, Calocan, Pasay and Quezon City.

Stage II: REGIONAL STAGE - Saturday, 15 September 1984

Venue: A pre-chosen school for the individual competition a place appropriate for public presentation for the team competition.

VIII. ENQUIRIES AND APPLICATIONS FOR THE NOR MATH OLYMPIAD PILOT

Prospective applicants in the National Capital Region Math Olympiad Pilot Run in July 1984 must submit four documents:

1. School certification that applicant has a grade of 85% or its equivalent or better in mathematics in the previous year. That is, first year high school students will submit Grade 6 or Grade 7 math grades. Second year students will submit their grades in their first year math, etc.)
2. Picture taken within the past 12 months, at least 2" x 2".
3. Certificate of parental consent.

4. Duly accomplished Math Olympiad application/information sheet.

WHERE TO OBTAIN/SUBMIT DOCUMENTS:

- i. THE EMO NATIONAL SECRETARIAT
Science Clubs and Societies Development Division
Science Promotion Institute
PTRI Bldg., Bicutan, Taguig, Metro Manila
- ii. Ministry of Education, Culture & Sports
National Capital Region Office
Bansua St., Quezon City

**** DEADLINE FOR SUBMISSION OF DOCUMENTS: Friday, July 6, 1964.

**** FOR ADDITIONAL INFORMATION: Please get in touch with the EMO Secretariat at the address above or telephone 845-13-15

