



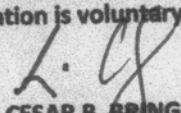
18th Philippine Mathematical Olympiad

27 July 2015

Ellen B. Donato, Ed.D., CESO III
Regional Director
Department of Education - CAR
Wangal, La Trinidad
Benguet, Philippines

To: All Public and Private Secondary and
Elementary School Heads

For your information and appropriate
action. Participation is voluntary.


FRANCIS CESAR B. BRINGAS, CESO VI
Schools Division Superintendent

Dear Director Donato:

Greetings!

The Philippine Mathematical Olympiad is the oldest and most prestigious nationwide mathematics competition among high school students. It is designed to select the best high school students in mathematical problem-solving through a friendly competition.

The PMO aims to stimulate the improvement of mathematics education in the country by awakening greater interest in and appreciation of mathematics among students and teachers, and gaining insights into the levels of mathematics learning. Identify and motivate the mathematically gifted, identify potential participants to the International Mathematical Olympiad; provide a vehicle for the professional growth of teachers; and encourage involvement of public and private sectors in the concerted promotion and development of mathematics education.

The 18th PMO shall be carried out in three stages:

1. Qualifying Stage 17 October 2015 (Sat), 1 pm: The Qualifying Stage is a multiple choice exam which will be administered in the University of the Philippines Baguio.
2. Area Stage 14 November 2015 (Sat), 1pm: The Area Stage is a written competition among students in each area who will qualify based on their performance in the Qualifying Stage. It will be done also in UP Baguio.
3. National Stage 23 January 2016 (Sat): The National Stage is a written and oral competition among the winners of the Area Stage competition. This will be held in Metro Manila.

Each school can send as many deserving students (regardless of year level) as they want. To participate, each student needs to fill out an application form (see attachment). All application forms and a registration fee of P150/student may be sent personally to the Department of Mathematics and Computer Science, UP Baguio, or thru mailing express to this address not later than October 3, 2015.

Department of Mathematics and Computer Science
College of Science
University of the Philippines Baguio
Governor Pack Road, Baguio City
Telefax: (074)442-3888, (074)442-7231

The school may also send the confirmed number of participants to +63-943-7280781 or to jocervative@yahoo.com

In connection to this, we humbly ask for endorsement from your good office. We also humbly ask to disseminate the information to all your division's schools (public or private) once endorsed.

We look forward to your positive response regarding our request. Thank you very much.

Respectfully Yours,



Prof. Benito B. Bacani, Dr. rer. nat.
CAR-Region 1 PMO Coordinator

Republic of the Philippines
Department of Education
Cordillera Administrative Region
Wangal, La Trinidad, Benguet

July 28, 2015

To : ALL SCHOOLS DIVISION SUPERINTENDENTS
ALL DIVISIONS

For information and dissemination.


ELLEN B. DONATO, Ed. D., CESO III
Regional Director



2015 Philippine Mathematical Olympiad Application Form

Family Name	First Name	Middle Name
Year Level: _____ Date of Birth: _____ Sex: _____ Contact Number: _____		
School: _____		
School Address: _____		
School Telephone No.: _____		
Coach: _____		
Landline No.: _____		Mobile No.: _____
		_____ Signature of Student

This part is to filled in by the School Principal or Registrar.

The applicant's Final Grade in Mathematics for the School Year 2014 - 2015 was _____

School Principal
(Please print name and sign)

REMINDERS:

1. All application forms must be submitted to the designated PMO Regional Coordinator assigned to your area on or before 12 noon of 3 October 2015.
2. A Ph150 registration fee will be charged upon submission of the application form or upon registration.
3. Please visit the PMO website pmo.ph or Facebook page <https://www.facebook.com/PhilippineMathematicaOlympiad> for other updates.

Regional Coordinators

Region 1 & CAR DR. JERICO BACANI

Chair, Department of Mathematics
and Computer Science
University of the Philippines Baguio
Governor Pack Road, 2600 Baguio City
Tel/Fax No.: (074) 4423868 / (074) 4427231
Mobile: 09437250761
email: jcbderivaive@yahoo.com

Region 2 MR. CRIZALDY BINARAO

Cagayan State University, Tuguegarao City
Tel No: (078) 304-0802.
Mobile No 09209818036 / 09175743409
Email: cpb_csu@yahoo.com

Region 3 DR. JUMAR VALDEZ

Graduate School, Tarlac State University,
Tarlac City
Tel No: (045) 982-5574, Fax: 982-0110
Mobile No. 0917 517 1713
Email: valdozjumar@yahoo.com.ph

Region 4A MS. SHARON P. LUBAG

De La Salle University - Dasmariñas
D88 B City of Dasmariñas 4115
Tel No: (046) 481-1900 to 1930 local 3087
Mobile No: 09163283417
Email: splubag@dlsu.edu.ph

Region 4B MS. SHEILA GRACE SORIANO

College of Arts and Sciences
Western Philippines University, Aboitan, Palawan
Mobile No.: 09077365213
Email: sheilagraceosoriano@gmail.com

Region 5 SOLOMON L. OLAYTA

Department of Mathematics
Ateneo de Naga University, Naga City
Tel No: (054) 473-0756, 473-6447 loc 2126
Mobile No. 0915193438
Email: solomonolayta@yahoo.com

Region 6 MS. SALVIE MARIE A. FUENTES

Division of Physical Sciences and Mathematics
University of the Philippines Visayas
Miangon, Iloilo 5023
Mobile: 09176211689/09283966116
Tel Nos: (033) 513 7020 Fax: (033) 513 8785
Email: smaf091291@gmail.com

Region 7 DR. LORNA ALMOCERA

University of the Philippines, Cebu
Lahug, Cebu City 6000
Telefax No.: 032-2338293
Mobile No.: 0917 3278390
Email: lsalmocera@yahoo.com

Region 8 MR. ARIEL G. SALARDA

Leyte Normal University, Tacloban City
(053) 321-5026, Fax: (053) 325-6122
Mobile: 09173257244 / 09209766862
Email: ariegsalarida@gmail.com

Region 9 DR. ROCHELLE E. MARIANO

Dean, College of Science and
Information Technology
Ateneo de Zamboanga University
La Purisima St., Zamboanga City
Tel Nos: (062) 991- 0871 local 2243 or 2245
Mobile No. 0906 6269260
Email: romeo_4747@yahoo.com
marianooce@adzu.edu.ph

Region 10, 12, & ARMM

DR. GINA MALACAS

MSU-Iigan Institute of Technology, Iigan City
Tel No: (063) 221-4050 loc 140,
Fax: 221-4068 Mobile: 09067821949
Email: ginastrong_trappe@yahoo.com

Region 11 DR. EWEYTH P. DELIGERO

Chair, Department of Mathematics and Statistics
College of Arts and Sciences
University of Southeastern Philippines
8000 Davao City,
Tel/Fax No. (082) 227-6192 local 247
Mobile No. 0922 8711181
E-mail: ewedeligero@yahoo.com

Region 13 DR. MIRALUNA HERRERA

Mathematics Department
Caraga State University
CSU Science and Technology Complex,
Butuan City,
Tel Nos (085) 342-0326, Fax: (085) 3421079
Mobile: 09308636155
Email: mirherrera71@yahoo.com

NCR LEMUEL MARTIN

Ateneo de Manila University
Mobile: 09165763575
Tel. No. 4266001 local 5582
Fax: 4266125
Email: jmartin@ateneo.edu

PMO CORE COMMITTEE

Director: RICHARD S. LEMENCE
Secretary: MAY ANNE C. TIRADO
Treasurer: JOHNATAN S. PIMENTEL



The 18th Philippine Mathematical Olympiad

What is PMO?

The Philippine Mathematical Olympiad is the oldest and most prestigious nationwide mathematics competition among high school students. The 18th PMO is designed to select the best high school students in mathematical problem-solving through a friendly competition.

Objectives

The PMO aims to:

- stimulate the improvement of mathematics education in the country by awakening greater interest in and appreciation of mathematics among students and teachers and gaining insights into the levels of mathematics learning;
- identify and motivate the mathematically gifted;
- identify potential participants to the International Mathematical Olympiad;
- provide a vehicle for the professional growth of teachers; and
- encourage involvement of public and private sectors in the concerted promotion and development of mathematics education.

General Guidelines and Scheme of Conduct

The 18th PMO is open to all high school students. It shall be carried out in three stages:

- Qualifying Stage 17 October 2015 (Sat): The Qualifying Stage is a multiple choice exam which will be administered in each area (Luzon, Visayas, Mindanao, NCR). There will be one testing site for each region.
- Area Stage 14 November 2015 (Sat): The Area Stage is a written competition among students in each area who will qualify based on their performance in the Qualifying Stage.
- National Stage 23 January 2016 (Sat): The National Stage is a written and oral competition among the winners of the Area Stage competition. This will be held in Metro Manila.

Test development (preparation, analysis and evaluation of questions and problems to be used in the competition) begins in August 2015 and continues throughout the year.

For more information, visit our website at pmo.ph
For inquiries, email us at pmo@math.upd.edu.ph

Participants' Qualifications

Qualifying Stage

- This competition shall be open to all high school students in the country. Each of the participating schools may send a maximum of 20 contestants.
- Any bona fide student of private or public secondary high schools as specified above with a final grade of 88% (or its equivalent) in mathematics in the previous school year may apply.
- Participants will be asked to pay a minimal amount of PHP 150.00 upon registration to the PMO coordinator of their region.

Area Stage

- The participants with the top fifty scores per area (Luzon, Visayas, Mindanao and NCR) will qualify for the area stage.

National Stage

- The participants from the area stage with the top twenty scores in national ranking will qualify for the national stage.

Format of the PMO Competition

Qualifying Stage

- The qualifying stage competition is a 25 multiple-choice exam consisting of
 - Fifteen questions worth 2 points each
 - Ten questions worth 3 points each
- And five questions that will require answers only worth 6 points each

Area Stage

- The area stage competition is in the form of a written exam consisting of
 - 20 questions that will require answers only.
 - 3 open-ended questions that will require full solutions.

National Stage

- This competition shall have two phases: the written phase and the oral phase.
 - In the written phase of the competition, the contestants will be given 3 hours to answer 5 open-ended questions that require full solutions.
 - In the oral phase of the competition, 30 questions are to be read to the participants. These questions are to be answered within a specified time for each item. This phase is open to the public.

Selection of Winners

Qualifying Stage

The answer sheets will be checked and scored by a team designated by the PMO Technical Committee. The checkers will be selected so that each one is not related up to a second degree of consanguinity or affinity to any PMO participant. None of them will be teaching in any secondary school in the country. Each paper will be checked and double checked so as to ascertain the correctness of the scores.

Area Stage

The answer sheets will be checked by a board of judges which consists of college/university professors of mathematics who are not related up to a second degree of consanguinity or affinity to any PMO participant, and who are not teaching in high school.

Each correct answer in the first portion will merit 3 points. A complete and correct solution in the open-ended portion will merit 10 points. Partial points may be given in the open-ended portion as decided by the board of judges.

National Stage

Written Phase

The answer sheets will be checked by a board of judges which consists of five college/university professors of mathematics who are not related up to a second degree of consanguinity or affinity to any PMO participant, and who are not teaching in high school.

A complete and correct solution will merit 8 points. Partial points may be given as decided by the board.

Oral Phase

- The board of judges shall consist of three members appointed by the PMO Committee.
- The thirty questions will be divided as follows:
 - 15 questions worth 2 points each
 - 10 questions worth 3 points each
 - 5 questions worth 6 points each

The participants will be ranked according to the following basis:

- 70% of the score in the written phase plus
- 30% of the score from oral phase

The top three participants and their coaches will be given trophies and cash awards.

The national finalists of the PMO will be qualified to join in the International Mathematical Olympiad Summer Camp (IMOSC). The IMO is the largest and most prestigious annual international mathematics competition among secondary school students. The representatives of the country to the IMO will be selected from the participants of the IMOSC.

Awards and Prizes for the PMO

Area Stage			National Stage		
1 st Place	Student Coach School	Medal Certificate Certificate Medal	1 st Place	Student Coach School	P 20000 and Medal P 5000 and certificate Trophy
2 nd Place	Student Coach School	Medal Certificate Certificate Medal	2 nd Place	Student Coach School	P 15000 and Medal P 3000 and certificate Trophy
3 rd Place	Student Coach School	Medal Certificate Certificate	3 rd Place	Student Coach School	P 10000 and Medal P 2000 and certificate Trophy

Regional Testing Centers

Region 1/CAR	University of the Philippines Baguio City	Region 9	Carlos Dominguez Hall, Ateneo de Zamboanga University, Zamboanga City
Region 2	Cagayan State University Campus, Tuguegarao City	Regions 10	CSM Annex Building Mindanao State University - Iligan, Institute of Technology, Iligan City
Region 3	College of Business Administration, Tarlac State University, Tarlac City	Region 11	University of the Southeastern Philippines, Obrero, Davao City
Region 4A	University of Batangas, Batangas City, Batangas	Region 12* & ARMM	CSM Annex Building Mindanao State University - Iligan, Institute of Technology, Iligan City
Region 4B	Western Philippines University - Puerto Princesa City Campus Sta. Monica Heights, PPC	Region 13	College of Science Education Building Caraga State University Ampayon, Butuan City
Region 5	Ateneo de Naga University, Naga City	NCR	Ateneo de Manila University,
Region 6	UPV Auditorium, University of the Philippines Visayas, Iloilo City	*May take the qualifying exam in the testing center nearest them	
Region 7	AS Building, UP Cebu College, Cebu City		
Region 8	Leyte Normal University,		

Area Coordinators

Qualifying Stage	Area Stage	National Stage
DR. MA NERISSA MASANGKAY	DR. RIGOR PONSONES	DR. RECTO REX M. CALINGASAN
ABARA		Health Service Building, University of Sto. Tomas
Institute of Mathematics, University of the Philippines-Diliman	Math Department	mxcal@upshoo.com
isa.math.upd.edu.ph	De La Salle University	Tel.: 781 1821 Mobile: 0917501467
09328673322	rigor.ponsones@dlu.edu.ph	
	08175347826	