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Republic of the Philippines
Department of Education
MIMAROPA Region

SCHOOLS DIVISION OF MARINDUQUE

Office of the Schools Division Superintendent

DIVISION ADVISORY
September 8, 2023

*This advisory is issued not for endorsement per DO no.28, s.2001
but only for voluntary participation of
DepEd officials and personnel.*

4TH PHILIPPINE NATIONAL VEDIC MATHEMATICS OLYMPIAD (IVM02023)

Attached is Regional Advisory No. 4575 titled "**4TH PHILIPPINE NATIONAL VEDIC MATHEMATICS OLYMPIAD (IVM02023)**" dated August 31, 2023, for information, reference and guidance of all concerned

Immediate dissemination of this Advisory is desired.

LYNN G. MENDOZA, EdD
OIC- Schools Division Superintendent

*"DepEd Marinduque: Heart of the Philippines
Lead to Excel, Excel to Lead"*



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Republic of the Philippines
Department of Education
MIMAROPA REGION

Office of the Regional Director

Advisory No. 451, s. 2023
August 31, 2023

*In connection with DepEd Order No. 8, s. 2013, title
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4th PHILIPPINE NATIONAL VEDIC MATHEMATICS OLYMPIAD (IVMO2023)

The 4th Philippine National Vedic Mathematics Olympiad is scheduled on October 7, 2023, from 10:00 AM to 11:00 AM. This mathematical competition has the following objectives:

- To develop creativity in problem-solving among participants;
- To encourage the use of fun, fast, and easy Vedic Math mental techniques and arithmetic computations;
- To develop confidence, patience, and stamina among the learners in solving unfamiliar problems; and
- To prepare the participants to compete in the 3rd International Vedic Mathematics Olympiad (IVMO 2023) which is the biggest and most prestigious VM competition in the world.

Attached are the Mechanics of the contest, Registration, and Coverage from Beginners, Primary, Junior High School, and Senior High School.

Interested schools and learners who want to join the said contest may send an email to competitions@math-inic.com for further details.

This Office emphasizes that participants in such activity shall be subject to the provision of "no or less disruption of classes and the schools" in adherence to the time-on-task policy pursuant to DepEd Order No. 9, s. 2005. Likewise, attendance to this activity will be on a voluntary and non-compulsory basis only.


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Math made fun, fast, and easy!

August 16, 2023

Dear fellow Vedic Math lover,

Help your students to compete and win in national and International Math competitions!

Be one of our **Area Facilitators (AFs)** for the last of three training events leading up to the biggest and most prestigious VM competition in the world, the **International Vedic Mathematics Olympiad of 2023 (IVMO 2023)**.

Lead them in joining the **4th Philippine National Vedic Mathematics Olympiad (4th PNVMO)** on October 7, 2023.

As an **AF**, you will be the key contact person for the students and teachers in your area, and crucial in accrediting VM coaches. You will also enjoy the following benefits:

- a) Free enrollment to a special review course for VM competitions. (Regular course fee: P2,500). This consists of 10 video recordings about almost all topics covered in all six categories of VM competitions.
- b) 30% discount on books, other review webinars and courses offered by MATH-Inic Publishing and MATH-Inic Online until the end of November 2023.
- c) 40% commission from the P300 entry fee of each participant.

An Area Facilitator may be appointed for a school, school district, schools' division, town, or province. As an AF, your key functions are to:

- a) Invite students and teachers to participate in the **4th PNVMO** with the goal of competing in **IVMO 2023**.
- b) Help train the participants by sharing review materials and links to VM sites provided by MATH-Inic Philippines.
- c) Recommend VM coaches for accreditation by MATH-Inic Philippines. Only those who have completed the Vedic Mathematics Teacher Training Course (VMTTC) or those who have passed the Foundation Level Distinction (Level III) will be recognized as coach for both national and international

The Area Facilitators are an integral part of our move to continue dominating the international Vedic Math Olympiads. In **IVMO 2021**, with nearly 500 participants competing from nine countries, the Philippines got 75% of all the awards given. The Filipinos, aside from topping four of the five categories, won total of 35 gold, 70 silver and 107 bronze awards.

In **IVMO 2022**, the Philippines showed that its victory in the previous Olympiad was no fluke when our Mathletes registered an even better performance – with 1866 participants from 11 countries, the Filipinos topped five out of six categories and won a total of 152 gold, 329 silver and 530 bronze awards, which is 90% of the total awards given.

So, register to be one of the Area Facilitators now!

You only need to register via this form: <https://bit.ly/4thPNVMOAF> if you have been an AF the 3rd MVMNC. If not, you also have to pay the P1,000 AF fee.

We look forward to making a difference in the world of Vedic Math and in the lives of our students with you. Please email us at competitions@math-inic.com if you have any questions.

We are looking forward to your favorable response. Thank you very much!

Truly yours,



Virgilio Y. Prudente
Founder, MATH-Inic Philippines
Honorary Life Member, IAVM

4th Philippine National Vedic Mathematics Olympiad

Date: October 7, 2023

Time: 10:00 to 11:00 AM

Objectives:

- 1) To develop creativity in problem solving among the participants.
- 2) To encourage the use of fun, fast and easy Vedic Math mental techniques in arithmetic computations.
- 3) To develop confidence, patience, and stamina among the learners in solving unfamiliar problems.
- 4) To prepare the participants to compete in the 3rd International Vedic Mathematics Olympiad (IVMO 2023) which is the biggest and most prestigious VM competition in the world.

Mechanics:

- 1) The competition will be online. The questions will be in Google Form(Quiz).
- 2) The conduct of the participants will be monitored by the area facilitators(AFs) and their assistants.
- 3) Two modes can be adopted, depending on the conditions in the participants' locality:
 - a) The participants may be in their homes or classrooms. One device or gadget is required to take the online exams, but an additional device is needed where the camera is focused on them during the contest so that they can be observed by the AFs.
 - b) The contestants are gathered in a spacious room with adequate internet connection. This will enable the AFs and their assistants to

closely observe their participants who only need to use a laptop, notebook, or cell phone to take the quiz.

- 4) The competitions will be in six categories based on the age of the contestants on the date of the IVMO 2023.
 - a) Beginners (Primary B): those born after Nov 25, 2013
 - b) Primary (Primary A): those born after Nov 25, 2011
 - c) Juniors: those born after Nov 25, 2009
 - d) Intermediate: those born after Nov 25, 2006
 - e) Seniors: those born after Nov 25, 2004
 - f) Open: any age

- 5) The participants will be given 60 minutes to answer forty multiple choice questions in Google Quiz. Correct answers to
 - a) questions 1 to 25 will be given 2 points each.
 - b) questions 26 to 35 will be given 3 points each.
 - c) questions 36 to 40 will be given 4 points each.

- 6) The top 30% of the competitors in each category will be given Certificates of Recognition and specially molded 2" Gold, Silver, and Bronze Medals in the ratio of 1:2:3.

- 7) The next 30% will receive a Certificate of Merit each, while the non-winners will each receive a Certificate of Participation.

- 8) Most questions can be answered using the traditional methods, but knowledge of Vedic Math is a definite advantage. Some questions can only be solved using VM techniques.

- 9) Aside from the Area Facilitators, other teachers may help in the training of participants but only those who have completed the Vedic Mathematics Teacher Training Course (VMTTC) or who have passed the Foundation Level: Distinction assessment of the Institute for the Advancement of Vedic Mathematics (IAVM) will receive their certificate as coach. The schedule for IAVM assessments will be posted separately.

Registration:

The participants shall register with and pay the registration fee of P300 to the accredited Area Facilitator in their school or district not later than September 30, 2023. The AFs shall also help the participants in training for the competitions.

Coverage:

The topics to be included in each category shall be the same as those used in the 2nd International Mathematics Olympiad. The coverage is cumulative, which means that the topics covered in the younger divisions are included in the older groups.

The coverage of questions in the beginners and primary groups, which are referred as to Primary B and Primary A respectively in IVMO 2022 are the same but the degree of difficulty of the questions will, of course, differ.

The Open category will have the same coverage as the Seniors category except that there will be no questions in Calculus and Triple trigonometry.

Beginners and Primary:

- Four basic arithmetic operations on whole numbers, fractions, and decimals
- Simple divisibility rules: 2, 4, 8, 3, 6, 9, 5, 10
- Digit sums
- Doubling and halving
- Nikhilam Multiplication
- Squaring numbers ending in 5
- Multiplying “complementary numbers”
- Vertically and crosswise multiplication.
- Nikhilam Multiplication
- HCF and LCD using vertically and Crosswise
- Linear sequences
- Area and perimeter of simple shapes
- Primes, square and triangular numbers

Sutras involved:

- All from 9 and the last from 10
- Vertically and Crosswise
- By one more than the one before
- Proportionately
- By Addition and by subtraction
- By observation
- By the Last digits

Juniors:

- Four basic arithmetic operations on whole numbers, fractions and decimals
- Fractions to decimal conversion and vice versa
- Squaring numbers close to a base
- Using bar numbers
- Paravartya division
- Straight division with 2 digit divisors
- Percentages
- Direct and indirect proportion
- Finding the nth term in a linear sequence
- Linear equations
- Simple rules of indices
- Mean, median and mode
- Area and circumference of a circle
- Volume and surface Areas
- Angles in parallel lines, triangles and quadrilaterals

Sutras Involved:

- Deficiency
- Transpose and Adjust
- On the Flag
- By Elimination and Retention
- All the multipliers

Intermediate:

- Converting fractions with denominators ending in 9 into decimals
- Conversion of partially recurring decimals into fractions
- Straight division with 3-digit divisors
- Simultaneous linear equations
- Quadratic equations
- Nth terms for quadratic sequences
- Completing the square
- Difference of two squares
- Cubing 2-digit numbers
- Combined ratios
- Polynomial division with binomial divisors
- Polynomial multiplication
- Factor theorem
- Indices (including fractional and negative)
- Using last digits to check the answer
- Angles in polygons
- Equations of straight lines
- Similar areas and volumes

Sutras Involved:

- By completion or non-completion
- Particular and the general
- Product of the means, product of the extremes

Open:

- Coefficients in polynomial products
- Using the first and last terms in polynomials
- Series expansion in polynomials
- Application of discriminants in quadratics
- Divisibility by osculation
- Logarithmic and exponential functions
- Inverse functions
- Method of differences

- Areas of shapes in coordinate axes
- Equations of circles

Seniors

- Triples
 - Pythagorean triples
- Triple Geometry
 - Addition and subtraction of angles
 - Geometric problems involving triples

- Calculus
 - Chain rule
 - Integration to find areas
 - Product and quotient rules
 - Partial fractions

Sutras involved:

- Differential Calculus

Please write to competitions@math-inic.com for further details.