







# Penchick Online Mathematical Olympiad (POMO)

## POMO Proof Contest Primer, A.Y. 2025-2026

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By the POMOPC Committee, A.Y. 2025-2026

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### About POMO and POMOPC

The **Penchick Online Mathematical Olympiad Proof Contest (POMOPC)** is a contest composed of proof problems designed to prepare students for various olympiads around the world.

The POMOPC is part of a larger student-led organization called the Penchick Online Mathematics Olympiad (POMO), which also offers contests that simulate the Philippine Mathematical Olympiad among various other competitions. To learn more about POMO, go to <https://penchickomo.replit.app/>.

## General Rules

1. **Do not discuss a currently ongoing contest.** Doing so, in the form of leaking the questionnaire, sharing answers, or asking for help during the contest period, will result in the contestant receiving a yellow card (See the Violation System for more information).
2. **Always exhibit academic honesty during a contest.** Do not use calculators, protractors, graph paper, search engines, artificial intelligence (AI software), and other external applications, resources, or help while answering the contest. Rulers, compasses, and blank or lined paper are allowed. **Note that although this is a mock contest for the PMO, cheating in any form is strictly prohibited** and will be actioned upon based on the stated violation system.

## Violation System

1. Violation of any of the rules stated above will result in a **yellow card**.
2. Two yellow cards will result in a **red card**; this results in disqualification from the contest. Here, disqualification refers to a participant being disqualified from both the POMO 2 and POMO Finals.
  - 2.1. Note that serious offenses, such as concrete evidence of cheating, will result in an **immediate red card**.
3. Warnings will reset at the beginning of every contest season.

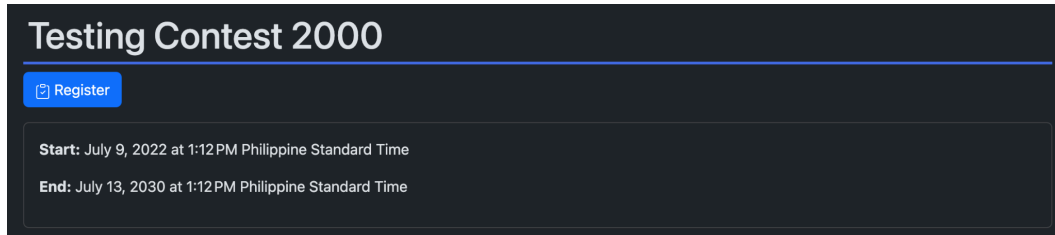
## Contest Mechanics

1. The **POMO Proof Contest (POMOPC)** is a contest composed of proof problems designed to prepare students for various olympiads around the world.
2. The contest is structured into two divisions, those being the **junior division** and the **senior division**. In both contests, **full solutions** must be provided for each problem to receive full credit.
  - 2.1. The **junior division** is a 2-day contest, each day having three problems to be answered in 4.5 hours. Each problem is worth 7 points. This division is made to provide a more accessible introduction to proof-based olympiads, targeting contests such as Pan African MO, Pan American Girls MO, USA Junior MO, East African MO, Centroamerican MO, and Iberoamerican MO.
  - 2.2. The **senior division** is a one-day contest with 5 problems to be answered in 4 hours. Each problem is worth 7 points. This division is designed to simulate the Asia Pacific Mathematical Olympiad (APMO) and thus the difficulty is approximately calibrated to that of the APMO.
  - 2.3. Each participant is **not allowed** to join both divisions due to the possibility of the two divisions having overlapping problems.
3. The available awards for the POMO proof contest is as follows. Students who have already graduated high school may still participate and receive any of the awards, but will not affect cutoffs:
  - 3.1. The **gold, silver, and bronze awards** are given to the top two-thirds of students with nonzero scores, split into a 1:2:3 ratio for gold, silver, and bronze, respectively.
  - 3.2. The **honorable mention award** is given to all participants who garnered a score of 7 points in at least one problem in the test.

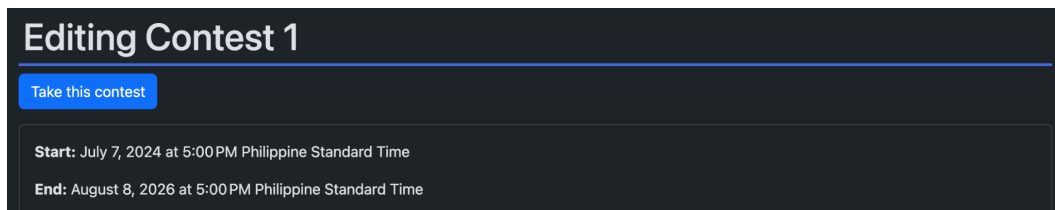
## Contest Procedures

Follow the steps below to have a seamless experience in your POMO contest.

1. Firstly, **create an account** on the POMO website at <https://penchickomo.replit.app/register> by filling out all the necessary fields. Once you have done so, log in to your account.
2. To **register** for a contest, go to <https://penchickomo.replit.app/contests>, select the contest you want to register for, then click *Register*.



3. You will be prompted **immediately** to give a Google Drive link to the folder where you will upload your solutions. The naming format for the folder is given in the prompt. **Ensure that you submit this link before the contest starts, or we may not be able to grade your solutions.**
4. When the contest period starts (or when you register, whichever is later), you will see a *Take the contest* button. **When you are ready for the contest**, click that button.



5. You will be redirected to the pre-contest page which contains instructions for filling the contest form and the honor pledge. Tick the box for the honor pledge and click *Submit* when you have read the contents of the page in full.

## Editing Contest 1

Hello **mathemolympiad2**, you are about to take **Editing Contest 1**. Please read the instructions below IN FULL and sign the honor pledge below before taking the contest. You will have access to the instructions during the contest.

**Instructions for filling the form**

- Maximize your screen to see both the PDF and the form properly.
- To ensure your answers are saved, click the Submit button BEFORE the timer ends. It also does NOT auto-save answers, so please write your answers on a sheet of paper for backup purposes.
- For short-answer questions, only input the NUMBER; all answers are from 1 to 999, inclusive. Do NOT include leading zeros.

### Honor Pledge

I affirm that I will abide by the rules and regulations of the Penchick Online Math Olympiad (POMO), where my participation implies that:

1. I will work independently during my designated 3-hour contest window and will not use any calculators, protractors, notes, search engines, AI tools, and other external aids.
2. I will not discuss any of the problems, answers, or solutions related to POMO to anyone until the official contest period has concluded, which is after August 8, 2026 at 5:00 PM Philippine Standard Time.
3. I understand that any violation of the rules above will merit an immediate disqualification from this round of POMO, and
4. I am aware that the purpose of the POMO exam is to honestly evaluate my mathematical performance under authentic testing conditions. Any form of cheating not only defeats this purpose, but disrespects the organizers, problem-setters, and participants.

I have fully read, understood, and agree to follow the honor pledge above.

The instructions for filling the form are as follows:

- Maximize your screen to see both the PDF and the form properly.
  - To ensure your answers are saved, click the Submit button BEFORE the timer ends. The form does NOT auto-save answers, so please write your answers on a sheet of paper for backup purposes.
  - For short-answer questions, only input the NUMBER; all answers are positive integers from 1 to 999, inclusive. Do NOT include leading zeros.
6. The contest timer will start, and the questionnaire and answer form will then be displayed on your screen. Fill out your answers in the form as you solve the problems.

Penchick Online Mathematical Olympiad Testing Contest  
This is made for you to be familiarized with the testing system of POMO.

Please input the following answers IN ORDER to get a perfect score.  
a.b.c.d.a.b.c.d.a.b.c.d.a.b.c.d.1.2.12.14.21.25.304.306

### Editing Contest 1

Time left: 2h 59m 45s

**Instructions for filling the form**

- Maximize your screen to see both the PDF and the form properly.
- To ensure your answers are saved, click the Submit button BEFORE the timer ends. It also does NOT auto-save answers, so please write your answers on a sheet of paper for backup purposes.
- For short-answer questions, only input the NUMBER; all answers are from 1 to 999, inclusive. Do NOT include leading zeros.

I.1	<input type="radio"/> a	<input type="radio"/> b	<input type="radio"/> c	<input type="radio"/> d
I.2	<input type="radio"/> a	<input type="radio"/> b	<input type="radio"/> c	<input type="radio"/> d
I.3	<input type="radio"/> a	<input type="radio"/> b	<input type="radio"/> c	<input type="radio"/> d
I.4	<input type="radio"/> a	<input type="radio"/> b	<input type="radio"/> c	<input type="radio"/> d
I.5	<input type="radio"/> a	<input type="radio"/> b	<input type="radio"/> c	<input type="radio"/> d
I.6	<input type="radio"/> a	<input type="radio"/> b	<input type="radio"/> c	<input type="radio"/> d
I.7	<input type="radio"/> a	<input type="radio"/> b	<input type="radio"/> c	<input type="radio"/> d
I.8	<input type="radio"/> a	<input type="radio"/> b	<input type="radio"/> c	<input type="radio"/> d
I.9	<input type="radio"/> a	<input type="radio"/> b	<input type="radio"/> c	<input type="radio"/> d

Penchick Online Mathematical Olympiad Testing Contest  
This is made for you to be familiarized with the testing system of POMO.  
Please input the following answers IN ORDER to get a perfect score.  
a,b,c,d,a,b,c,d,a,b,c,d,1,2,12,14,21,25,304,306

II.6	<input type="radio"/> a	<input type="radio"/> b	<input type="radio"/> c	<input type="radio"/> d
II.7	<input type="radio"/> a	<input type="radio"/> b	<input type="radio"/> c	<input type="radio"/> d
II.8	<input type="radio"/> a	<input type="radio"/> b	<input type="radio"/> c	<input type="radio"/> d
II.9	<input type="radio"/> a	<input type="radio"/> b	<input type="radio"/> c	<input type="radio"/> d
II.10	<input type="radio"/> a	<input type="radio"/> b	<input type="radio"/> c	<input type="radio"/> d
III.1	<input type="text"/>			
III.2	<input type="text"/>			
III.3	<input type="text"/>			
III.4	<input type="text"/>			
III.5	<input type="text"/>			
III.6	<input type="text"/>			
III.7	<input type="text"/>			
III.8	<input type="text"/>			

- Once you are done with the contest, click *Submit*. This will cause you to be redirected to the contest's front page. **Start uploading your scratch papers to the indicated form (<https://forms.gle/VvWP7dRKPokigLHw6>) as soon as you finish your test. This is required in order for you to receive results.**

**Testing Contest 1000**

You have finished this contest. Congratulations!  
If you haven't yet, please upload your scratch papers [here](#). Sending of scratch papers is *required* in order to receive results.

## Honor Pledge

I affirm that I will abide by the rules and regulations of the Penchick Online Math Olympiad (POMO), where my participation implies that:

1. I will work independently during my designated 3-hour contest window and will not use any calculators, protractors, notes, search engines, AI tools, and other external aids;
2. I will not discuss any of the problems, answers, or solutions related to POMO to anyone until the official contest period has concluded, which is after October 5, 2025 at 9:00pm GMT+8;
3. I understand that any violation of the rules above will merit an immediate disqualification from this round of POMO; and
4. I am aware that the purpose of the POMO exam is to honestly evaluate my mathematical performance under authentic testing conditions. Any form of cheating not only defeats this purpose, but disrespects the organizers, problem-setters, and participants.

I have fully read, understood, and agree to follow the honor pledge above.

*If you have any clarifications, please ask in the #pomo-clarifications channel of the POMO Discord server (<https://discord.gg/ntWe29E4Eb>) or send an email to [penchickomo@gmail.com](mailto:penchickomo@gmail.com).*



*"Good fun and have luck, everyone!"*