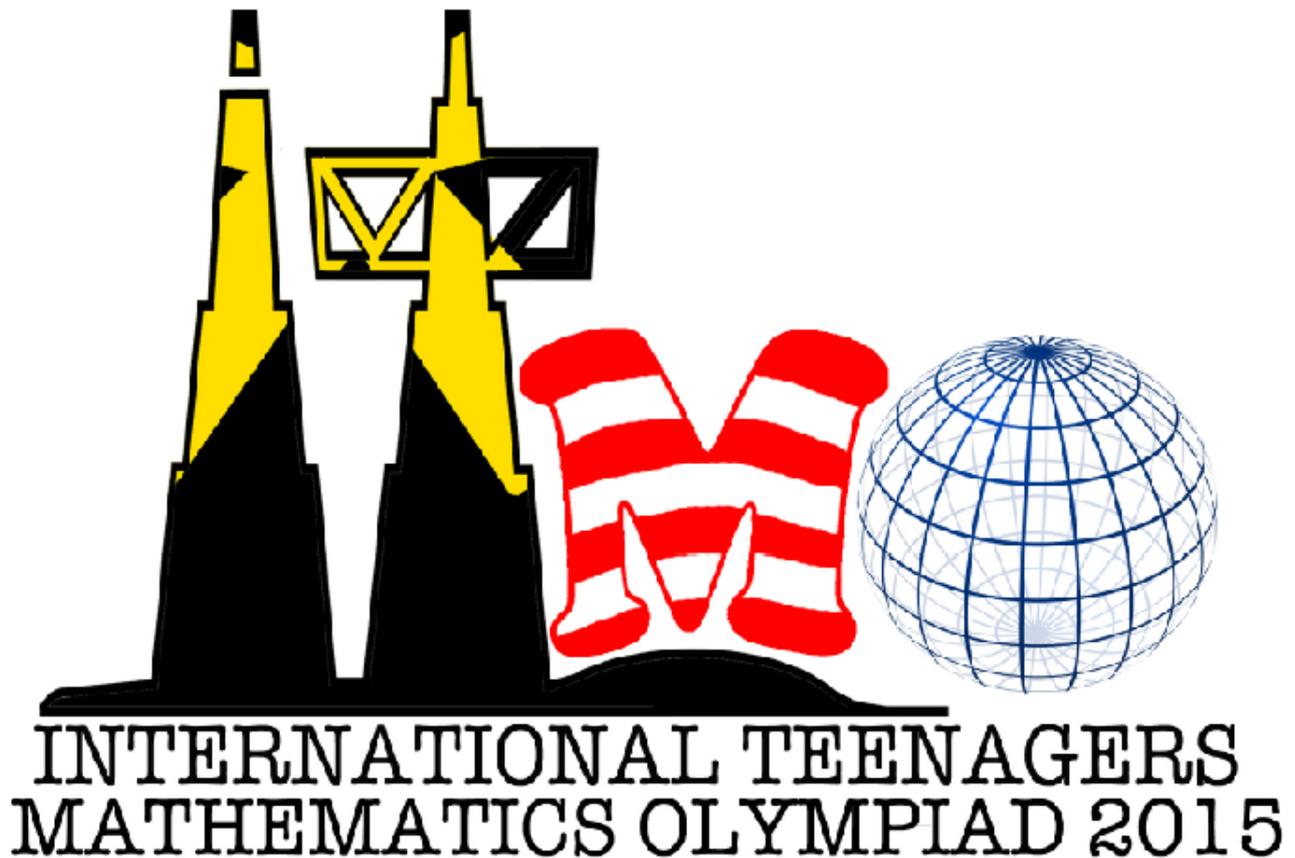


*2015 International Teenagers Mathematics Olympiad  
MALAYSIA  
10 – 14 December, 2015, Sungai Petani, Kedah Malaysia*

# Information



**PERSATUAN MATEMATIK OLYMPIAD NEGERI KEDAH**  
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<b>1. ITMO Objectives</b>	<ol style="list-style-type: none"> <li>1. Improve the mathematical talents and skills of teenagers and students in junior high school;</li> <li>2. Motivate teachers and students to improve the teaching and learning of mathematics with emphasis on developing the high-order thinking skills;</li> <li>3. Establish cooperation with networks for the improvement of mathematics at the international level;</li> <li>4. Provide students from participating countries the opportunities to exchange mathematics knowledge and practice and cultural experiences; and</li> <li>5. Upgrade mathematics curriculum in school to be at par with the international standards.</li> </ol>									
<b>2. Qualifications of Participants</b>	<ol style="list-style-type: none"> <li>1. Students must have not been enrolled in upper secondary education or in any of equivalent institutions; and</li> <li>2. Students must have been born on or after 1 December 1999.</li> </ol>									
<b>3. Participation and Application</b>	<p>Participation in the competition is by invitation. Any invited city or country is entitled to send up to 2 teams. Each team may comprise a maximum of 6 members: a team leader, a deputy leader, and 4 students, except for countries: Bulgaria, China, Hong Kong, India, Indonesia, Macau, Nepal, Philippines, South Africa, South Korea, Taiwan and Thailand, whose status as former hosts of any activities under the supervision of IMC Executive Board allowing them to send four teams.</p>									
<b>4. Types of Contest</b>	<p>There will be two kinds of contests in each division namely, individual and team contests. All participants must participate in both kinds of contests and other related activities, as scheduled.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Individual</th> <th style="text-align: center;">TEAM</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;"> <b>Part One :</b>  <b>12 Questions – short answer (5 points each)</b> </td> <td rowspan="2" style="vertical-align: middle; text-align: center;"> <b>Questions : 10</b> </td> </tr> <tr> <td style="vertical-align: top;"> <b>Part Two:</b>  <b>3 Questions – complete solution is needed (20 points each)</b> </td> </tr> <tr> <td style="vertical-align: top;">           Time : 120 minutes         </td> <td style="vertical-align: top;">           Time : 60 minutes         </td> </tr> <tr> <td style="vertical-align: top;">           Total Marks : 120         </td> <td style="vertical-align: top;">           Total Marks : 400         </td> </tr> </tbody> </table>	Individual	TEAM	<b>Part One :</b> <b>12 Questions – short answer (5 points each)</b>	<b>Questions : 10</b>	<b>Part Two:</b> <b>3 Questions – complete solution is needed (20 points each)</b>	Time : 120 minutes	Time : 60 minutes	Total Marks : 120	Total Marks : 400
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	<p><b>More Information about TEAM CONTEST</b></p> <p>The four-team members are given 10 minutes to discuss and distribute among themselves the first 8 questions. Each student must attempt to solve at least one problem. Each member has 35 minutes to write independently the solutions of the problem assigned to him/her with no further discussion or exchange of problems among the team members. The four-team members are only allowed to solve together the last 2 problems for 15 minutes.</p>
<b>5.</b>	<b>Competition papers</b>
	<p>The participating country must send ten proposed problems, using Word files written in English, that is, five for the individual contest and another five for the team contest on or before <b>15 October 2015</b> to allow the ITMO 2015 Academic Committee to do the consideration and preparation of competition papers. The team leaders must avoid using the exact proposed problems they submit to the organizers for training their contestants.</p>
<b>6.</b>	<b>ITMO 2015 Technical Committee</b>
	<p>ITMO 2015 Technical Committee comprises of math experts from Malaysia and members of IMC Executive Board.</p>
<b>7.</b>	<b>Awards and Prizes</b>
	<ul style="list-style-type: none"> <li>● <b>Individual Award:</b> Gold, silver, bronze medals and merit certificates. Approximately two-thirds of the contestants will receive Individual Awards, in the form of Gold, Silver and Bronze Medals as well as merit certificates, approximately in the ratio, 1 : 2 : 3 : 4.</li> <li>● <b>Team Award:</b> Champion, 1st, 2nd runner-up trophies and honorable mention. In the team contest, the total score of all contestants in each team is considered the team score. The teams are first ranked by their total scores. Ties are broken according to the scores of team contest problems, starting with the most difficult ones. Prizes will be given to one Champion, two 1st runners-up and three 2nd runners-up of different groups. Grouping will be done through drawing of lots.</li> <li>● <b>Group Award:</b> Champion, 1st and 2nd runner-up trophies The highest score of the three contestants in each team for Individual Contest will be summed up. Prizes will be awarded to the top teams with the highest scores of each group in the form of one Champion, two 1st runners-up and three 2nd runners-up. In case of a tie, the team whose 4th contestant scores with higher marks in the Individual Contest wins.</li> </ul>

	<ul style="list-style-type: none"> <li>● <b>Overall Award:</b> Grand Champion, 1<sup>st</sup> and 2<sup>nd</sup> runner-up trophies The Overall Prize is awarded to the team that obtains the highest score computed as follows: the sum of the four-team members' score in the Individual Contest and of the team's score in the Team Contest. The maximum score is <math>4 \times 120 + 400 = 880</math>. Grand Champion, 1<sup>st</sup> and 2<sup>nd</sup> runners-up will be awarded.</li> <li>● <b>Certificate:</b> Every participant will receive a ITMO 2015 certificate.</li> </ul>
<b>8.</b>	<b>Period of Application and Procedure</b>
	<ul style="list-style-type: none"> <li>● Each participating city or country has to apply for its participation. It should <b>specify the number of participating teams</b> to the organizer on or before <b>31 August, 2015 through these e-mails</b> ( <a href="mailto:pmonk10kdh@gmail.com">pmonk10kdh@gmail.com</a> and <a href="mailto:ccmp@seed.net.tw">ccmp@seed.net.tw</a> ). A notice of confirmation will be sent on or before <b>30 September 2015</b>.</li> <li>● A filled-up application form must be submitted via e-mail to the organizer on or before <b>31 October 2015</b>.</li> <li>● Each participating team must inform the organizer about its <b>arrival and departure schedule</b> at Penang International Airport on or before <b>30 November 2015</b>.</li> </ul>
<b>9.</b>	<b>Expenses</b>
	<p>The organizer will take charge of all official expenses of the teams from each invited city or country including accommodation, meals, and sightseeing during the official period of the competition on (10-14 December 2015) in Sungai Petani. Observers, parents and other accompanying persons have to pay US\$650 for the accommodation, meals, transportation, and sightseeing during the period of official competition.</p> <ul style="list-style-type: none"> <li>● Each participating team is responsible for the travelling expenses from their homeland to Penang International Airport, including payment of visa fees and other expenses for their entry to Malaysia.</li> </ul>
<b>10.</b>	<b>Official Language</b>
	English will be the official language of ITMO 2015.
<b>11.</b>	<b>Organizer</b>
	<ul style="list-style-type: none"> <li>● Kedah State Government</li> <li>● Ministry of Education, Malaysia</li> <li>● Kedah Education Department</li> <li>● Kedah Mathematics Olympiad Association</li> </ul>

<b>12. Proposed Itinerary</b>		
10 December, 2015 Thursday	Arrival to Penang International Airport and transfer to Sungai Petani.	
	– 21:00	Registration
	12:00 – 13:00	Lunch
	18:00 – 19:00	Dinner
	21:00 – 22:30	Meeting of Team Leaders
11 December, 2015 Friday	06:30 – 08:00	Breakfast
	09:00 – 10:30	Opening Ceremony
	11:00 – 13:00	Competition – Individual Contest
	13:00 – 14:30	Lunch
	15:00 – 17:00	Competition – Team Contest
	14:00 – 18:00	Excursion for Team Leaders
	18:00 – 19:30	Dinner
12 December, 2015 Saturday	06:30 – 08:00	Breakfast
	09:00 – 11:00	Excursion
	09:00 – 12:00	Moderation of Contest Papers by Leaders
	12:00 – 13:30	Lunch
	14:00 – 17:00	Mathematics' Games
	18:00 – 19:00	Dinner
	19:00 – 22:00	Cultural Night
13 December, 2015 Sunday	06:30 – 08:00	Breakfast
	08:00 – 10:00	Moderation of Contest Papers by Leaders
	10:30 – 11:30	Awarding Ceremony (Merits & others)
	11:30 – 12:30	Awarding and Closing Ceremony
	12:30–14:00	Lunch
	14:00	Excursion to Penang & Overnight in Penang
	19:30 –	Dinner
14 December	Departure for Homeland with Fond Memory of Malaysia	
<b>13. Medical Care for Participants</b>		
The organizer will procure accident insurance for all participants during the official period of the competition. The insurance will cover accidents leading to death or permanent disability of the body; therefore, all participants are advised to arrange medical insurance by themselves.		

<b>14.</b>	<b>Additional Information</b>
	<p>Each participating country should do the following:</p> <ul style="list-style-type: none"> <li>● Inform the organizer in advance of any specified dietary requirements or restrictions;</li> <li>● Prepare at most 5-minute presentation for the cultural night; (Prepare gift for exchange of souvenir items)</li> <li>● Prepare cultural pictures or items to be used in the exhibit. The Local Organizing Committee will provide each participating country 4 tables and a space of 3 m by 3m to display their things for the exhibit. If there is a need of additional space, please request from the Local Organizing Committee.</li> <li>● Prepare 3 pieces of national flag (1.5 m x 1 m)</li> <li>● Accomplish visa procedures before arriving in Malaysia. Check Malaysia Immigration Service website (<a href="http://www.imi.gov.my/index.php/ms/">http://www.imi.gov.my/index.php/ms/</a> ) to Prevent possible problems.</li> </ul>
<b>15.</b>	<b>Participants' Personal items (Individual)</b>
	<ul style="list-style-type: none"> <li>● Swimsuit, Short Pants, Towels, Toothbrush, Toothpaste, Slippers, Personal Medicines, Hat/Umbrella etc.</li> <li>● Required materials and gift for cultural night.</li> </ul>
<b>16.</b>	<b>Participants' Needed Materials (Group)</b>
	<ul style="list-style-type: none"> <li>● Cultural information of each country and Promotional information relating to education.</li> <li>● Flags 3 pieces for ITMO 2015.</li> </ul>