

Online World Math Contest 2021

The Online World Math Contest 2021 (OWMC 2021) is open to everyone, wherever you are and whatever your age.

The sometimes obscure or dry aspect of mathematics yields here to its playful and intuitive side. Even in the problems reserved for the most seasoned competitors, the ideas necessary to solve them are generally elementary.

A judicious mixture of logic and common sense will succeed much more effectively than an arsenal of complex methods. It is not uncommon to see a young competitor find a more astute solution than that of her/his maths teacher.

1. Categories of participants

Participants are divided into seven categories according to their age:

Category	Competitors concerned
A	Born from August 1, 2012 to 31 July, 2013
B	Born from August 1, 2010 to 31 July, 2012
C	Born from August 1, 2008 to 31 July, 2010
D	Born from August 1, 2006 to 31 July, 2008
E	Born from August 1, 2003 to 31 July, 2006
F	Adults: for all ages
G	Experts: recommended for the professionals

2. About the Contest

Each competitor has access to the same question paper, with 18 problems.

The problems are available in different languages (English, French, German, Italian, Spanish, Portuguese, Polish, Russian and Arabic). You must choose your preferred language when registering.

The papers will be available from 2:00 p.m. on Saturday August 28, 2021 in PDF format on the website www.fsjm.ch. You can either print the document or view it on screen.

The problems to be solved and the time allowed depend on your category:

Catégorie	Problems to be solved	Time limit
A	Problems 1 to 5 (inclusive)	60 minutes
B	Problems 1 to 8 (inclusive)	90 minutes
C	Problems 1 to 11 (inclusive)	120 minutes
D	Problems 1 to 14 (inclusive)	180 minutes
E-F	Problems 1 to 16 (inclusive)	180 minutes
G	Problems 1 to 18 (inclusive)	180 minutes

During the tests, no external help is allowed, NO CALCULATOR, no mobile phone, no electronic watch, no computer software. However, you can use paper, pencils, scissors, glue, a ruler, a setsquare or a compass.

As soon as you have finished, you can enter your answers on the online form available on www.fsjm.ch and submit your answers so that your answering time is recorded. The time taken to answer the questions is one of the ranking criteria.

From problem 9, a problem may have several solutions. In this case, you must provide the exact number of solutions as well as any two of them. Space for two solutions is always present on the answer entry form, even when there is only one, or none at all!

3. Method of Marking

Unlike typical school practice and that of other maths contests, the description of the method used to solve a problem is not requested, no justification is required.

Only the answer counts but it must correspond exactly to the question asked and the correction is ruthless. For example :

- if the answer is requested in cm, an answer in mm will be considered incorrect,
- if the answer is requested in the form of an irreducible fraction, $42/63$ will be considered incorrect,
- if the dimensions of a rectangle are requested, giving its area or its perimeter will be considered incorrect.

During the correction, each answer is judged to be either **correct** or **incorrect** and thereby receives 1 or 0 points. In the problems that may have several solutions, to obtain the point, it is imperative to give two correct solutions (if there are indeed two or more) and the exact number of solutions.

Each also problem bears a number known as the "coefficient", corresponding to the number of the problem (e.g. problem 11 has a coefficient of 11).

The allocation of points and coefficients follows the following rules:

- A **correctly and completely solved** problem is scored **(1,p)**, where p is the number of the problem (its coefficient);
- A **correctly but partially solved** problem is scored **(0,q)**, where q is smaller than or equal to p;
- An **incorrectly solved** problem is scored **(0,0)**

Each competitor thus obtains two totals (number of correctly solved problems; number of coefficients).

You are not prohibited from solving problems that do not relate to your category, but this effort will not earn you any points. It is therefore pointless for a competitor of category A to solve problem 13 nor for an F to solve problem 18.

4. Classification

The classification, for each category, is carried out according to the following criteria in order of descending priority:

- the number of problems correctly solved,
- in the event of a tie above, the total of coefficients obtained,
- in the event of a tie above, the total time taken to answer the problems,
- in the event of a tie above, the date of birth (advantage to the youngest),
- in the event of a tie above, by drawing lots.

5. Announcement of results

A results announcement ceremony will take place online on **Saturday August 28 starting at approximately 6.30 p.m.**

The exact time of this ceremony will depend on the success of the event and the number of participants in the event.

An individual classification by category will be established, as well as a classification by country. The latter will take into account the results of participants from the same country, but above all their number.

The winner in each category will receive a diploma which will remind them of their performance during this first Online World Math Contest.

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