



1ST EUROPEAN MATHEMATICAL CUP

24th November 2012–1st December 2012



Report

Association *Young Gifted Mathematicians Marin Getaldić* organised The First European Mathematical Cup during late November and early December 2012. In collaboration with the local organizers the competition was attended by almost 100 students from seven countries in Europe.

The competition was divided into two categories: Junior Category (for students younger than 17 on the day of competition), and Senior Category (all students not currently attending a University Course). All competitors are given one test with 4 problems, one in each of algebra, combinatorics, geometry and number theory, to solve during the time of 4 hours.

This mathematical competition is one of the rare competitions that are held late in the year at a time when there are only few other international competitions. Also, all students are taking the exam in their own city and have their exams after the competition sent for the coordination in Zagreb. Writing the competition in their home town was possible only due to lots of effort by the local organizers (math teachers and students who themselves were once competitors).

After coordination, the best students have been awarded medals and prizes.

Junior Category

Of the four task that the students were given, combinatoric one proved to be the toughest where the average score was 0.1 points, while the contestants showed up on the first problem, where they scored an average of 4.1 points.

Prizes will be awarded in the IMO-like way: so the cut-offs are determined by the ratio of 1:2:3 (the least of first prizes, and the most of third prizes), and that no more than half of the contestants receive a prize. Also, the best three students in each category will be awarded medals.

Best juniors, who have won first prizes and respective medals are:

Kristijan Štefanec	Croatia	30 points	GOLD MEDAL
Adrian Beker	Croatia	29 points	SILVER MEDAL
Demir Papić	Bosnia and Hezegovina	28 points	BRONZE MEDAL

Students who have scored more than 16 points are awarded with the second prize:

Jeroen Van Hautte	Belgium	24 points
Josip Pupić	Croatia	23 points
Tonko Sabolčec	Croatia	22 points
Jovan Tasev	Macedonia	20 points
Dženis Pepić	Bosnia and Hezegovina	16 points

Students who have won the third prize are:

Bozidar Stevanoski	Macedonia	15 points
Klimentina Krstevska	Macedonia	15 points
Dario Domjanić	Croatia	15 points
Al Depope	Croatia	14 points
Andrija Mandić	Croatia	14 points
Jane Lameski	Macedonia	12 points
Charlotte Vermeylen	Belgium	11 points
Dragan Trajchev	Macedonia	11 points
Vasil Vasilev	Macedonia	11 points
Tessa Leliveld	Belgium	10 points

Senior Category

Statistically, Seniors have scored less points on average than Juniors. Seniors have an average of 3 points on the first problem, while the last and the hardest problem has an average of 0.06 points.

For the senior category the prizes and medals are awarded in the same fashion as for the Junior category.

Domagoj Čević	Croatia	32 points	GOLD MEDAL
Borna Vukorepa	Croatia	30 points	SILVER MEDAL
Mihael Marović	Croatia	23 points	BRONZE MEDAL

Second prize has been awarded to:

Mihael Eraković	Croatia	21 points
Bart Michels	Belgium	20 points
Abdulah Jašarević	Bosnia and Herzegovina	20 points
Lamija Kujan	Bosnia and Herzegovina	20 points
Marko Rajković	Bosnia and Herzegovina	13 points

Third prizes have been awarded to:

Aleksandar Bulj	Croatia	12 points
Gerwin Dox	Belgium	11 points
Rosica Dejanovska	Macedonia	11 points
Boriana Gjura	Albania	10 points
Floris Kint	Belgium	10 points
Amadej Kristijan Kocbek	Slovenia	10 points
Vlatko Crnković	Croatia	10 points
Hannes Vandecasteele	Belgium	8 points
Neven Miculinić	Croatia	8 points
Mihaela Pušnik	Slovenia	7 points
Vedran Stipetić	Croatia	7 points

Conclusion

We must also commend all the participants as they have done exceedingly well.

On behalf of the Organizing Committee of The EMC, we express our gratitude to local organizers who made this competition possible. We are the most grateful for the time they dedicated for students to have an opportunity to attend this competition and for providing level playing field to everyone. We are also grateful for the translations and all their advice and critics, whether positive or negative.

We are also grateful to the members of the association *Young Gifted Mathematicians Marin Getaldić*, who have found the time to coordinate such a large number of exams.

We hope that everyone enjoyed in this competition and that everyone has learned something new and interesting. We look forward to organizing the next European Mathematical Cup with hopefully an even larger number of competitors and countries.

The Jury of EMC

Matija Bucić

Matko Ljulj

Association MNM Marin Getaldić

Gabriela Clara Racz