

Spring Mathematical Competition

Aria: Mathematics

Style of Competition: “Classical style” competition which requires the students to present arguments (proofs) in written form of four problems. The problems are different for different grades. The first two problems worth 6 points each and are in accordance with the standard school curriculum. The last two problems worth 7 points each and are of Olympiad type. The fourth problem for 9 and 10 grade (11 and 12 grade, resp.) is one and the same and its best solution is awarded a special prize of the Union of Bulgarian Mathematicians (Atanas Radev prize, resp.). The working time of the competition is 4h30min.

Target Group: The participants are students of grades 8 - 12 with serious interest in the mathematics.

Age of Participants: 15 – 19.

School level of Participants: High school. Most of the participants are students of Math High schools.

Number of Participants in the Last Years: 2004 (Yambol) – 550 students from 19 towns, 2005 (Kazanlak) – 502 students from 20 towns, 2006(Yambol) – 493 students from 18 towns, 2007 (Kazanlak) – 525 students from 23 towns.

History of the Competition: The Spring Mathematical Competition takes place alternatively in two towns – Kazanlak and Yambol. The first competition in Kazanlak was organized by K. Gorchev (director of Kazanlak Math School) in 1971 with the support of the section of UBM in the town and the Ministry of Education. The first competition in Yambol was organized in 1972 by the teachers R. Hainatski and K. Kosev with the support of the local inspectorate of the Ministry of Education (one should note the active role of Mr. Grigorov – chief of the local inspectorate and Mr. E. Enchev – inspector in mathematics).

Financial Basis of the Competition: The Spring Mathematical Competition is supported financially by the Ministry of Education, the Union of Bulgarian Mathematicians and sponsors.

Competition Problems: The problems (with solutions) given to this competition over the years can be found in the journals *Mathematics*, *Mathematics Plus* and *Mathematics and Informatics* as well as in the following books:

- [1] H. Lesov, E. Enchev, K. Gorchev, R. Hainatski, *Mathematics Competitions*, Integral, Dobrich, 1995 (in Bulgarian).
- [2] S. Grozdev, E. Kolev, O. Mushkarov, N. Nikolov, *Bulgarian Mathematical Competitions 1997-2002*, Mathematical Library, Union of Bulgarian Mathematicians, Sofia, 2002.
- [3] P. Boyvalenkov, E. Kolev, O. Mushkarov, N. Nikolov, *Bulgarian Mathematical Competitions 2003- 2006*, GIL Publishing House, 2007.

Results Scored: On the organizer’s sites.

Contact Address: Hristo Lesov, PMG “N. Obreshkov”, Oreshaka Str. 2, 6100 Kazanlak
Phone: 0431/64564
Evgeni Ivanov, Director, MG”Atanas Radev”, Ivan Aleksander Str. 12, Yambol

E-mail for Contacts: Hristo Lesov (pmgkk@abv.bg), Evgeni Ivanov (mgatradev@abv.bg)
Compiled by Oleg Mushkarov