



The 23rd Mathematical Duel

The 23rd Mathematical Duel was held in Bielsko-Biała from 11th till 15th March 2015. It was the first of three competitions planned as part of the Duel Plus project, which is entirely financed by the Erasmus Plus programme.

The students from three age groups:

- Category A
- Category B
- Category C

took part in individual and team competition. The teams came from Austrian, Czech and Polish schools:

- Bundesrealgymnasium Kepler in Graz
- Gymnázium Mikuláše Koperníka in Bílovec
- Gymnázium Jakuba Škody in Přerov
- V Liceum Ogólnokształcące in Bielsko-Biała
- Akademicki Zespół Szkół Ogólnokształcących in Chorzów

The agenda for the duel was as follows:

11th March

Afternoon – arrival of competing schools from Austria and the Czech Republic to The Dębowiec Hotel in Bielsko-Biała

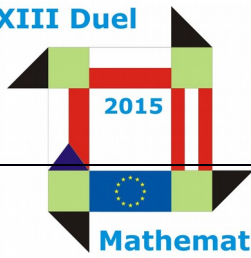
12th March

Morning- breakfast

9am-11.30am - individual competition

11.30am-12am - coffee and snack break

12am -1pm- team competition



2pm-3pm- lunch break

3pm-5.30pm- city sightseeing, visit to the “Stara Fabryka” museum in Bielsko-Biala

6pm- dinner

7pm-10pm- integration games

13th March

7.30 am - breakfast

8am-8pm- a trip to Kraków and Wieliczka Salt Mine

9.30 pm- dinner

14th March

8.00- breakfast

The University of Silesia

10am-1pm- mixed nationality team competition

1pm-2pm- lunch break

2pm-3.30pm- survey conducted by psychology students

Akademycki Zespół Szkół Ogólnokształcących in Chorzów

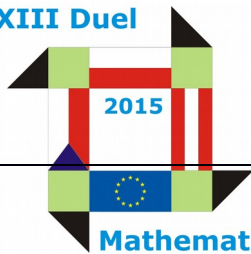
4pm-5pm- competition results and award ceremony

5pm-6.30pm- artistic programme and tasting ‘pierogi’ made according to Ukrainian recipe

8pm- dinner

15th March 7.30- breakfast

8.30am– departure of the Austrian and Czech teams



The Austrian and Czech teams arrived in Bielsko-Biała on 11th March at 5.30pm. The Polish team came the following day i.e. 12th March in the morning. The schools were represented by:

The Czech delegation also included Mr Jaroslav Švrček, a representative of The Olomouc University.

Individual competition started on 12th March at 9am.

The students in each age group were allowed two hours and forty minutes to solve four problems. Since all the problems were formulated in English, the teachers in charge of their teams helped them understand the content.

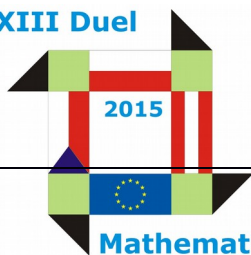
The second part of the duel i.e. team competition started after coffee and snack break. The participating schools were allowed to send 12 persons- four persons for each age group. Thus, four students representing the same school and age group could join one team. However, only three schools were represented by the maximum number of participants. In result, a few teams consisted of less than the agreed number of participants i.e. two or three.

The teams were told to solve three problems within 90 minutes. In the afternoon all the participants visited the “Stara Fabryka” museum (Old Factory Museum) and walked around the Bielsko-Biała town.

In the evening the students were playing integration games. It was a good opportunity to get to know one another better and learn about the cultures they came from. They talked about their customs and interests, and acquired new vocabulary.

On Friday the students and the teachers went to Kraków to visit Podziemia Rynku (Rynek Underground located under the Krakow Cloth Hall in the centre of the main square), and attended an interactive exhibition “Wszystko jest liczbą” (Everything...is a number) in Collegium Maius. After lunch the whole group went to Wieliczka to visit a famous Kopalnia Soli (Salt Mine).

On Saturday morning the students visited the Faculty of Mathematics, Physics and Chemistry at the University of Silesia in Katowice. They attended a lecture and took part in a mixed nationality team competition organized by members of



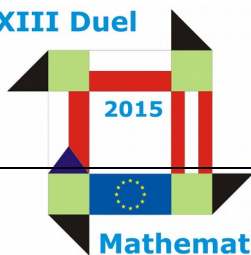
a Math Scientific Circle. Afterwards, they took part in a survey prepared by students of The Faculty of Psychology.

In the afternoon the whole group went to Akademycki Zespół Szkół Ogólnokształcących in Chorzów. The school was the venue where the results of the Duel were announced, and the award ceremony took place. The winners received logical games, and other participants got brain teasers as consolation prizes. The official part was followed by an evening prepared by the members of Kawiarenka Literacka (The Literary café) at Akademycki Zespół Szkół Ogólnokształcących. They organized an artistic event which included many references to cultures of the participating countries. Moreover, everybody had a chance to taste 'pierogi' made according to Ukrainian recipe.

Results of individual competition

Category A

Place	Participant	School	Problems				Sum
			1	2	3	4	
1	Marta Mościcka	V LO Bielsko-Biała	8	5	8	8	29
2	Wojciech Klemens	V LO Bielsko-Biała	3	8	8	8	27
3-4	Marian Poljak	GJŠ Přerov	8	1	8	8	25
3-4	Petr Vincena	GJŠ Přerov	8	1	8	8	25
5	Jakub Paliga	AZSO Chorzów	8	0	8	8	24
6	Jakub Kuklis	V LO Bielsko-Biała	3	7	8	5	23
7	Tomáš Kremel	GJŠ Přerov	8	0	8	6	22
8	Jan Gocník	GJŠ Přerov	8	0	0	4	12
9-10	Michał Ślusarczyk	AZSO Chorzów	3	0	8	0	11
9-10	Wojciech Buś	V LO Bielsko-Biała	6	3	0	2	11
11	Gerda Prach	BRG Kepler	6	0	0	4	10
12	Vladimír Jeřábek	GMK Bílovec	8	0	0	1	9
13	Sebastian Borówka	AZSO Chorzów	4	0	0	4	8
14	Lucie Holušová	GMK Bílovec	4	0	0	2	6
15	Tomáš Moravec	GMK Bílovec	0	0	0	4	4
16	Benedikt Andritsch	BRG Kepler	3	0	0	0	3
17-18	Artur Wyciślok	AZSO Chorzów	1	0	0	1	2
17-18	Martin Ošťádal	GMK Bílovec	1	0	0	1	2
19	Markus Rupprechter	BRG Kepler	0	0	0	1	1
20	Doris Prach	BRG Kepler	0	0	0	0	0

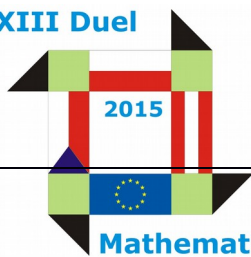


Category B

Place	Participant	School	Problems				Sum
			1	2	3	4	
1	Bogna Pawlus	V LO Bielsko-Biała	8	8	8	8	32
2	Mikołaj Tomalik	V LO Bielsko-Biała	8	0	8	8	24
3	Jiří Nábělek	GMK Bílovec	8	0	8	6	22
4	Konstantin Andritsch	BRG Kepler	0	8	8	2	18
5-6	Marcin Socha	AZSO Chorzów	0	0	8	8	16
5-6	Bára Tížková	GMK Bílovec	0	2	6	8	16
7-8	Jan Równicki	AZSO Chorzów	0	8	6	0	14
7-8	Łukasz Grzesiek	V LO Bielsko-Biała	0	0	6	8	14
9-10	Damian Wałoszek	GMK Bílovec	8	0	2	0	10
9-10	Jan Šuta	GJŠ Přerov	0	1	8	1	10
11-12	Denisa Chytilová	GJŠ Přerov	0	0	8	1	9
11-12	Daniel Horiatakis	BRG Kepler	0	1	8	0	9
13-15	Julie Dostalíková	GJŠ Přerov	0	0	8	0	8
13-15	Adrian Steinmann	BRG Kepler	0	0	8	0	8
13-15	Bazyli Polednia	V LO Bielsko-Biała	0	0	8	0	8
16	Tereza Špalková	GJŠ Přerov	0	0	4	0	4
17	Karol Szydlik	AZSO Chorzów	0	0	3	0	3
18-19	Grzegorz Pielot	AZSO Chorzów	0	0	2	0	2
18-19	Tomáš Kůřil	GMK Bílovec	0	0	2	0	2

Category C

Place	Participant	School	Problems				Sum
			1	2	3	4	
1	Tomáš Křižák	GMK Bílovec	4	7	8	8	27
2	Michaela Svatošová	GMK Bílovec	2	8	8	8	26
3-4	Michał Szwej	AZSO Chorzów	4	7	8	6	25
3-4	Jana Pallová	GJŠ Přerov	6	0	8	8	22
5	Marcin Traskowski	AZSO Chorzów	6	7	8	0	21
6	Minh Nguyen	BRG Kepler	2	7	8	0	17
7	Matyáš Florík	GMK Bílovec	4	0	4	8	16
8	Jaroslav Hradil	GJŠ Přerov	0	1	0	8	9
9-10	Krzysztof Stefan	AZSO Chorzów	2	0	4	0	6
9-10	Julian Narimany	AZSO Chorzów	2	0	2	0	4
11	Dominik Nagy	GMK Bílovec	4	0	0	0	4
12	Vít Horčíčka	GJŠ Přerov	2	0	2	0	4
13	Jakub Gogela	GJŠ Přerov	2	0	0	0	2



14	Julian Wonisch	BRG Kepler	2	0	0	0	2
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Results of team competition

Category A

Place	School	Problems			Sum
		1	2	3	
1	V LO Bielsko-Biała	4	8	8	20
2	GJŠ Přerov	2	8	8	18
3	BRG Kepler	1	6	8	15
4	AZSO Chorzów	0	7	2	9
5	GMK Bílovec	0	0	6	6

Category B

Place	School	Problems			Sum
		1	2	3	
1	V LO Bielsko-Biała	8	8	8	24
2-3	AZSO Chorzów	6	4	8	18
2-3	GMK Bílovec	6	4	8	18
4	GJŠ Přerov	6	4	6	16
5	BRG Kepler	6	4	4	14

Category C

Place	School	Problems			Sum
		1	2	3	
1	GMK Bílovec	8	8	8	24
2	AZSO Chorzów	4	2	8	14
3-4	GJŠ Přerov	2	0	8	10
3-4	BRG Kepler	4	0	6	10