



## Results of the Competition for Mathematical Experiment, 2024

We are pleased to inform you that the competition received works from all over Poland and from three other countries: Georgia, Armenia and Romania.

The works were assessed in two age categories:

- students of primary schools, grades VI-VIII,
- students of secondary schools.

The evaluation took into account compliance with the principles of conducting scientific experiments, originality of the researched problem, aesthetics and readability of the documentation.

The competition commission composed of employees of the Faculty of Mathematics of the University of Białystok and Primary School No. 11 in Białystok determined the following results:

In the category **students of grades VI - VIII of primary schools**

**The committee decided not to award the first place.**

**Second place** goes to **Jakub Abramowicz** from the 8th grade at the Sports Primary School in Supraśl for the work entitled **Pythagoras' theorem and acute and obtuse-angled triangles**.

**Third place** goes to **Oliwier Wiszniewski** from the 8th grade at the Sports Primary School in Supraśl for the work entitled **Pyramids**.

**Distinction** in this category receives **Natalka Kamińska** from the 7th grade from School and Kindergarten Complex No 2 in Stobierna for the work entitled **Pythagoras on the lawn**.

In the category **students of secondary schools**:

**A special award** goes to **Szymon Radzimierski** from the 4th Secondary School Emilia Sczaniecka in Łódź for the work entitled **Benford's law**.

**Two parallel first places** take:

**Burca Andrei** from Colegiul Național "Emil Racoviță", Cluj-Napoca, Romania for the work entitled **Modelling of forest fires**

and

**Bartosz Wiercioch** from the 4th Secondary School Emilia Sczaniecka in Łódź for the work entitled **Strategies and methods on the currency exchange market**.

**Two parallel second places take:**

**Hangan Miruna Maria** from Colegiul Național "Emil Racoviță", Cluj-Napoca, Romania for the work entitled **Coding numbers with beads**

and

**Ana Bento Maia de Carvalho** from the 4th Secondary School Emilia Sczaniecka in Łódź for the work entitled **The influence of music on the efficiency of solving exercises.**

**Two parallel third places take:**

**Anush Manukyan** from Avedisian School, Eryvan, Armenia for the work entitled **Football and mathematics**

and

**Agnieszka Skrzypek** from Secondary School No. 2 in Ostrów Wielkopolski for the work entitled **The best strategy for winning the Lotto.**

**Distinctions** in this category receive:

**Nalbandyan Isabel and Arakelyan Ruzanna** from Georgia for the work entitled **In the golden section;**

**Karolina Dunikowska** from Secondary School No. 3 in Białystok for the work entitled **How many drawings can I draw with one blue marker before the ink runs out?;**

**Rober Shahin** from the 4th Secondary School Emilia Sczaniecka in Łódź for the work entitled **Fuel consumption under different tire pressure;**

**Aleksandra Jaworska** from the 4th Secondary School Emilia Sczaniecka in Łódź for the work entitled **Probability in five-card poker;**

**Nadia Reguła** from the 4th Secondary School Emilia Sczaniecka in Łódź for the work entitled **Heads or tails**

and

**Igor Slobodskoi** from the 4th Secondary School Emilia Sczaniecka in Łódź for the work entitled **Does the “Optimal advanced strategy” in card game blackjack gives you advantage?**

### **Congratulations to all the winners!**

We intend to use the awarded and distinguished works to inspire children and teenagers to perform mathematical experiments - in the form of examples that mathematics can not only be learned from textbooks, but also used in various fields to solve various problems.

We will send the prizes by post; we will first contact the awarded Participants to determine where to send the prizes, and we will send the participation diplomas to the remaining Participants in electronic form.

So we stay in touch.

On behalf of the organizers of the competition Mathematics  
teachers from Primary School No. 11 in Białystok,

Anna Rybak, Centre for Creative Learning of Mathematics, Faculty of Mathematics, University of Białystok