

## 18. Eleonóra Stettner

### GEOMATECH COMPETITION

The GEOMATECH project includes not only teachers' training and the development of teaching material, but also national competitions for Hungarians living in and outside Hungary. We prepared tasks for six different age groups, between 6 and 18 year - old students. Groups of 1 – 5 persons could participate in the competition. There were competition rounds for 9 months, and each round had a central topic.

Problems that the compilers of the tasks had to solve:

- We had to set tasks which gave work to think about and to create enough for one month for the whole group.
- The tasks had to allow everybody to join in, not only the best mathematicians, but they had to contain enough challenge for the best ones, too.
- The tasks had to be new and interesting so that students feel the urge to enter.
- The use of GeoGebra had to be essential to the solution of the tasks.

We asked the upper primary school and the grammar school students to keep a diary.

Looking back it proved to be a very useful idea, although it wasn't easy for the children to formulate the explanation and the discussion. But on the one hand, it was useful because this way they are getting used to write down their thoughts, and on the other hand, we received a lot of useful comments in connection with the competition and with GG.

Moreover, from the diaries we can see that while understanding and solving the tasks, the children had to cooperate, argue, communicate and help each other.

In my presentation I would like to speak about the experience of the competition and to show some interesting and beautiful solutions.