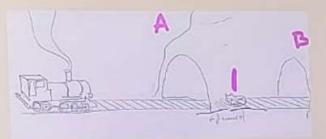




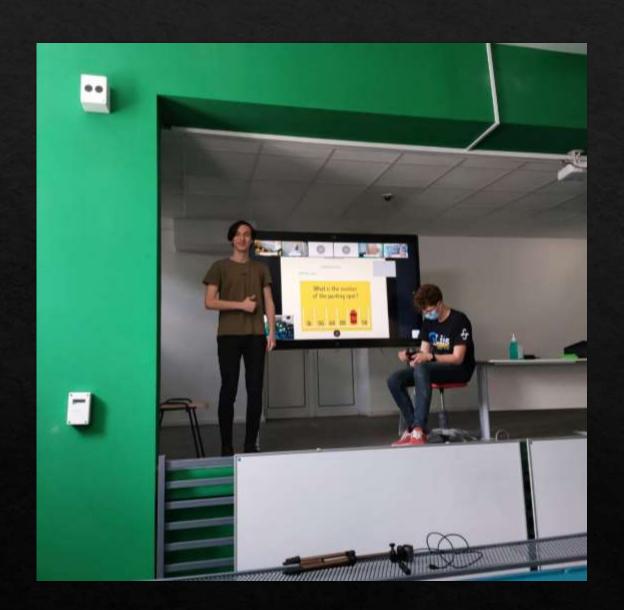
9) The unfortunate kitten

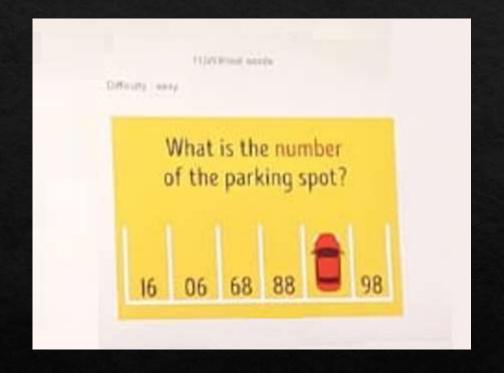
Difficulty: normal

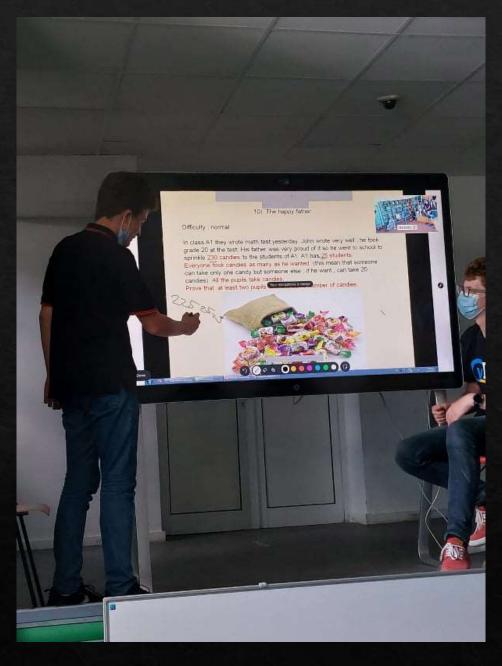
A cat is inside a tunnel. The train is getting closer. The cat see the train and think: If I run to exit A which is at $\frac{3}{0}$ of the whole length the train kill me there. Also if I run to the exit B the train kills me at the exit B. The question is: how many times is the train faster from the cat?



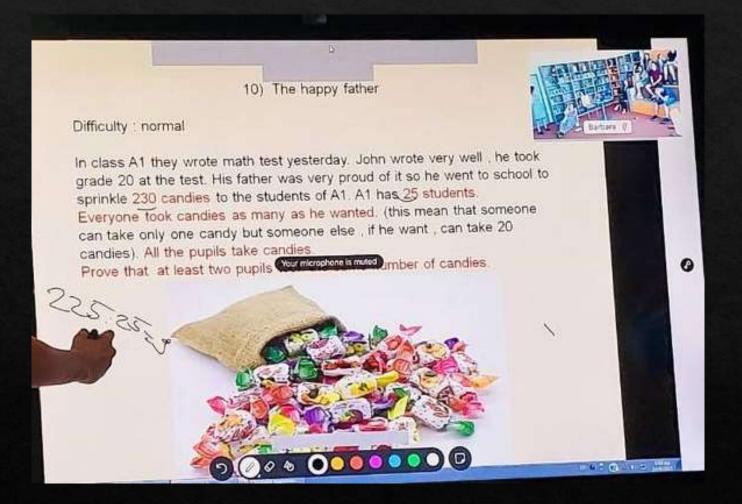








"I found this problem to be really challenging, but fun!" - Andrei, the problem solver



Our collective loves working together to solve these types of problems.



8) The water lilies

Difficulty: easy

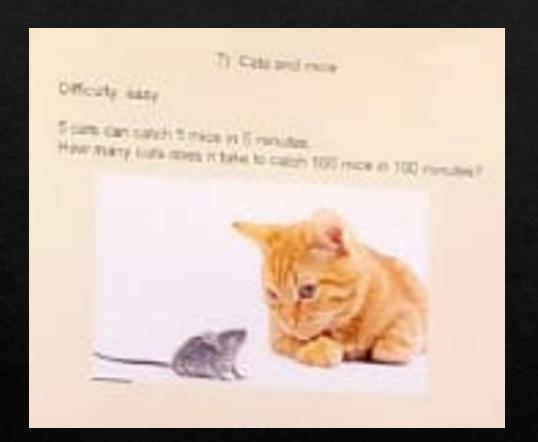
A water lily began to grow in a lake.

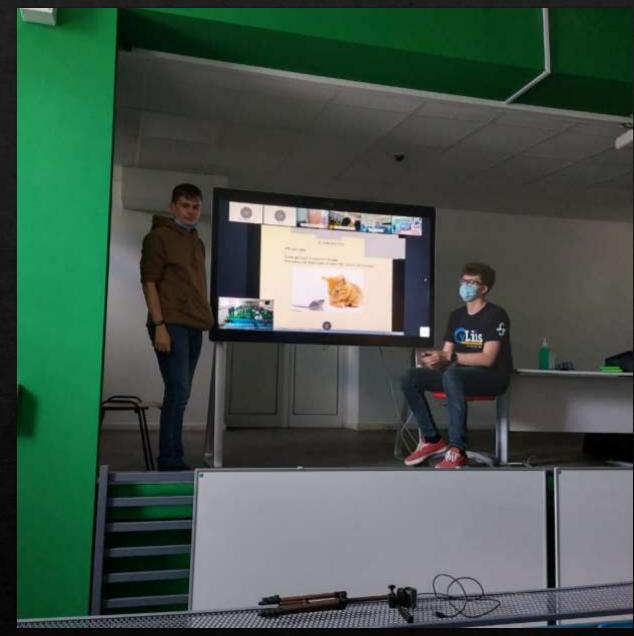
Each day covers twice the area of the previous one.

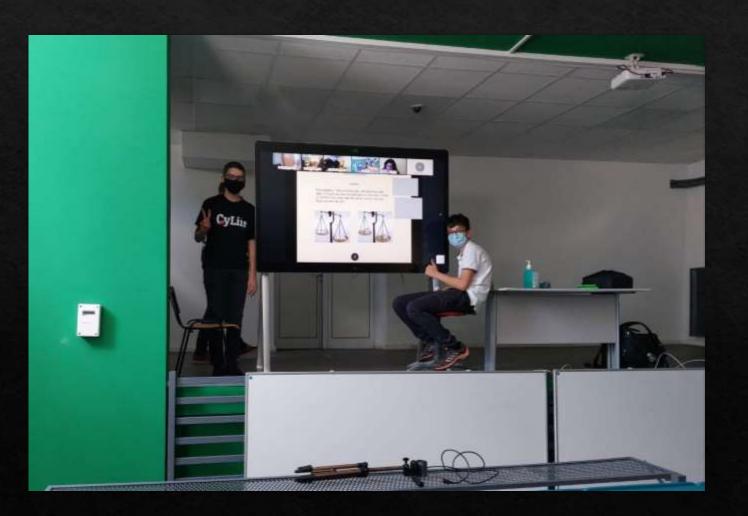
In 30 days it covered the whole lake.

In how many days he had covered half of the lake?









nobifor:

First weighing: We gut three bots, left and three bots right. If it believes that the light both is in the other 2 balls. In first form the Union both the lighter we gut lens but fitting and one but.





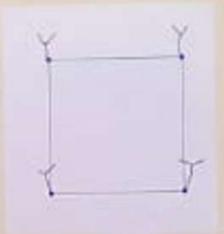
We really enjoyed working as a team!

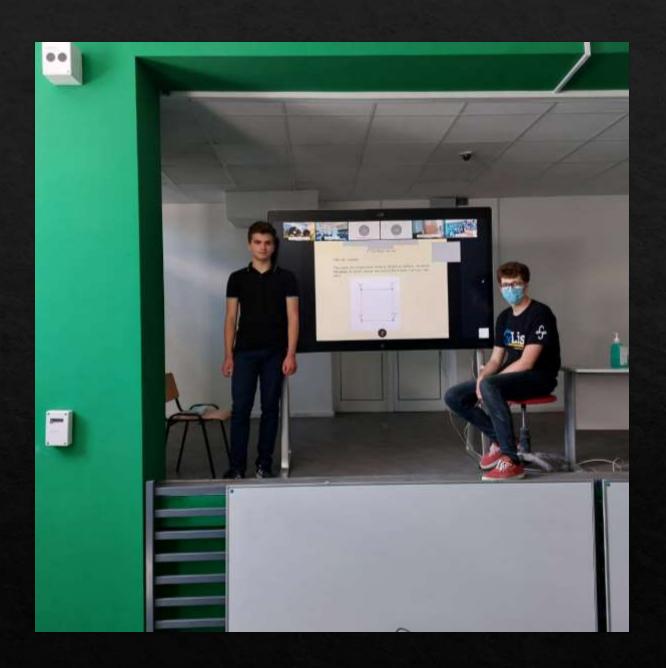


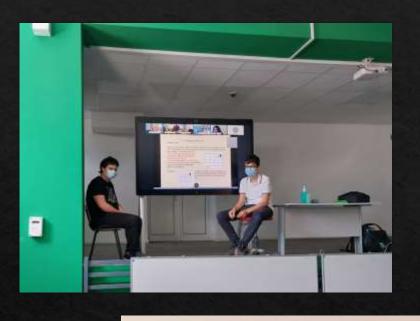
5) Doubling the pool

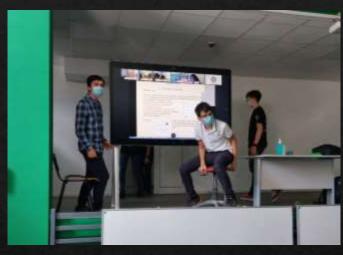
Difficulty normal

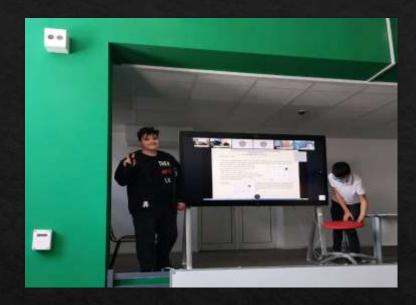
The corner of a square pool words to double its nurface. He wants the shape to rample square and not out the 4 trees. Can you help han?











4). This encope of the prisoner

There is a small prison with only 16 pale. There is only one presoner in any mail. The proposer we see in the picture has the large and a leafe and he will Try to excape. To succeed be must

a) the most wark through all the cells.

ti) When he writers in a cell he allia.

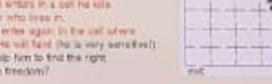
the prisoner who less in:

Difficulty : many

c) He can't enter upon in the cell afters

to is count. He will hard this is very worre fivel): Can you halp fun to find the right

path for the freedom?



Example



a path it can take in this in the figure but It is not the right one because it does not go through a cell Can you fair the right.

"This problem was by far our favourite!" – The 3 pupils that solved the problem

Romanian participants



♦ Pupils:

♦ Students from classes 9D and 9F from The Computer Science Highschool "Grigore Moisil" laşi, Romania.



- ♦ Teachers:
- ♦ Popa Lăcrămioara
- ♦ Timofte Cristina
- Andrei Anamaria
- Leontieş Rodica
- ♦ Creţu Ines



Project made by: Hulub Bianca, Dumitru Laura and Ţvetcu Dan Stefanos from class 9F