

Hunters

Submission deadline: July 29th 2022

There are 2022 hunters in a large field and each hunter averages one hit per 3 shots. All hunters see a fox and shoot at the same time. What is the probability that at least one of them hit the fox?

The problem was solved by

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Discussion.

Note that

Probability of all the shooters missing the fox is $\left(\frac{2}{3}\right)^{2022}$. Thus the probability of at least one of them hitting the fox is $1 - \left(\frac{2}{3}\right)^{2022}$.