

How will you be paid for your predictions?

You are asked to state a number, between 0 and the number of Virtual Assistant turns, as your PREDICTION of the number of correct moves that the Virtual Assistant makes.

1. Let us call your PREDICTION P , the TRUE number of correct moves T , and the number of Virtual Assistant turns X .
2. Given your prediction, we can calculate the difference $(P - T)^2$.
Note: Since both P and T are between 0 and X , the minimum value of this difference is 0, while the maximum value is X^2 .
3. At the end of the experiment, we use a computer software to randomly draw a number N between 0 and X^2 . Each number between 0 and X^2 is equally likely to be drawn.
4. You earn 2 USD if $(P - T)^2$ is less than or equal to N , and zero otherwise.

Summary:

You are more likely to receive 2 USD when $(P - T)^2$ is smaller!

The more accurate your prediction is, the smaller $(P - T)^2$ will be, and the more likely it is that you receive 2 USD.

Hence, you should state your prediction as accurately as possible.