Started on	Friday, 11 October 2024, 1:10 PM
State	Finished
Completed on	Friday, 11 October 2024, 1:10 PM
Time taken	9 secs
Marks	0.00/5.00
Grade	**0.00** out of 10.00 (**0**%)

Question 1

Not answered

Marked out of 1.00

In a TV quiz show the player must choose one from four envelopes. In the first envelope there are 4 cards saying 'Sorry, next time', 8 cards with 'You have won 100 euros' and 2 cards with 'You have won 500 euros'. The content of the second envelope: 4 cards 'Sorry, next time', 2 cards 'You have won 100 euros' and 2 card 'You have won 500 euros'. The third and fourth envelope contain only 'Sorry, next time' cards. The player chooses randomly an envelope and from the chosen envelope he chooses a card. What is the probability that the player loses?

One possible correct answer is: 0.69642857142857

Válasza helytelen.

Question 2

Not answered

Marked out of 2.00

Rust Rider cars are produced in four factories. The first factory produces 460 cars per day, the second 200, the third 380, while the fourth 460. The refuse ratios for the factories are 7%; 6%; 1% and 7%, respectively.

What is the probability that we find a junk car?

One possible correct answer is: 0.053466666666667

We bought a Rust Rider and we found it perfect. What is the probability that it had been produced in the second factory?

One possible correct answer is: 0.13241301591773

Válasza helytelen.

Question 3

Not answered

Mark 0.00 out of 1.00

Create a **MATLAB** function that approximates the probability in the following experiment with simulations!

Two fair dice are thrown. Find the probability that the sum of the numbers obtained is 8.

The number of simulation should be **N = 10^3**. The variable **p** should store the approximation, i.e. the relative frequency.

Use semicolons when defining variables!

With the Check button the code is free to run.

For example:

Test	Result
`rand('seed',36);` `disp(sim());`	`0.141`

Answer: (penalty regime: 0 %)

Reset answer

```
function p = sim()
    N = 10^3;

    p =     ;
end
```

▸ **Show/hide question author's solution (Octave)**

Question 4

Not answered

Mark 0.00 out of 1.00

Create a **MATLAB** function that approximates the probability in the following experiment with simulations!

Two fair dice are thrown. Find the probability that the two numbers equal.

The number of simulation should be **N = 10^3**. The variable **p** should store the approximation, i.e. the relative frequency.

Use semicolons when defining variables!

With the Check button the code is free to run.

For example:

Test	Result
`rand('seed',51);` `disp(sim());`	`0.168`

Answer: (penalty regime: 0 %)

Reset answer

```
function p = sim()
    N  = 10^3;

    p =     ;
end
```

▸ **Show/hide question author's solution (Octave)**

◄ Homework 3

Jump to...

Homework 5 ►