Sharma, Deepak x26431

From: Deepak Sharma < DEEPAK.SHARMA45@spsmail.cuny.edu>

Sent: Saturday, October 22, 2022 12:44 AM

To: Sam Gralnick

Subject: Fw: Brain Stumper 5 - Individual Challenge

Hello Prof,

I ran the tool(online) and punched the data as shown below and got the result I expected. Similar thing I should also get in python code also.

https://stattrek.com/online-calculator/binomial

When I used the following statements in python code-my results are matching.

from scipy.stats import binom

#calculate binomial probability

print(binom.pmf(k=5, n=5, p=0.2))

Binomial Probability Calculator - Stat Trek

Binomial Probability Calculator. Use the Binomial Calculator to compute individual and cumulative binomial probabilities. For help in using the calculator, read the Frequently-Asked Questions or review the Sample Problems.. To learn more about the binomial distribution, go to Stat Trek's tutorial on the binomial distribution.

stattrek.com

- Enter a value in each of the first three text boxes (unshaded boxes).
- Click the Calculate button to compute binomial a cumulative probabilities.

Probability of success on a trial	.2
Number of trials	5
Number of successes (x)	5
Binomial probability: P(X=5)	0.000
Cumulative probability: P(X<5)	0.999
Cumulative probability: P(X≤5)	1
Cumulative probability: P(X>5)	0

Thanks, Deepak