Quiz 4 Results for Ali Asad

Question 1
1.5 / 1.5 pts

Let the random variable X be the outcome of rolling a fair 4-sided die. What is the mean of Y = 2X? (Enter your answer in A.BC format e.g. 3.51)

Correct!

> 5

Correct Answers

5 (with margin: 0)

Between 4.9 and 5.1

Question 2
1.5 / 1.5 pts

Let the random variable X be the outcome of rolling a fair 4-sided die. What is the mean of Y = X^2 ? (Enter your answer in A.BC format e.g. 3.51)

Correct!

> 7.5

Correct Answers

Between 7.4 and 7.6

7.5 (with margin: 0)

Question 3
0 / 2 pts

Given the following Joint PMF of random variables X and Y, what is the value of c. (Enter your answer in A.BC format e.g. 0.55)

Y	X			
	1	2	3	4
1	c	0.2	0.3	0.05
2	0.05	0.05	0.15	c

0.2

Between 0.09 and 0.11
0.1 (with margin: 0)

Question 4

Consider a random variable Z that is related to random variables X and Y as follows:

Z = X + Y

Given the following Joint PMF of random variables X and Y, what is $p_Z(4)$? (Enter your answer in A.BC format e.g. 0.55)

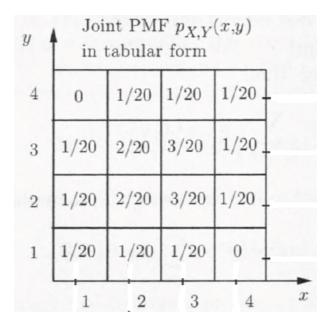| Y	X			
	1	2	3	4
1	c	0.2	0.3	0.05
2	0.05	0.05	0.15	c

0.35

Between 0.34 and 0.36
0.35 (with margin: 0)

Given the following Joint PMF of random variables X and Y, what is mean of Z = 2Y.

Joint PMF $p_{X,Y}(x,y)$ in tabular form

y				
4	0	1/20	1/20	1/20
3	1/20	2/20	3/20	1/20
2	1/20	2/20	3/20	1/20
1	1/20	1/20	1/20	0
	1	2	3	4	x

Correct!

- ● 5.0

- ○ 6/20

- ○ 2.5

- ○ 3.5

Let the random variable X be the number of days in a year that the campus ATM is out-of-order (not working) at 10 AM. Let the random variable Y be the number of days in a year that the campus ATM is operational (working) at 10 AM. What is $p_{X,Y}(200, 200)$? (Enter your answer in A.BC format e.g. 0.50)

Correct!

0

orrect Answers   0 (with margin: 0)

Quiz Score: **8** out of 10