

Quiz 1, Business 41000, Summer 2023

⚠ This is a preview of the published version of the quiz

Started: Jul 16 at 10:45am

Quiz Instructions

You have 1 hour to complete the quiz.

You can start it any time you want in the availability window, but once you start, you have to finish it in an hour.

The test is open book, open notes, open internet, you just can't interact with a person.

There is just one question with 9 parts.

Each part is worth one point.

Question 1

1 pts

Question 1

Suppose random variables X and Y have the joint distribution

			X	
		5		10
	0	.15		.24
Y				
	1	.05		.56

So, for example, $P(X=10, Y=1) = .56$.

What is $P(X=10)$?

- .24
- .80
- .56
- .20

Question 2

1 pts

What is $P(Y=1)$?

- .05
- .56
- .66
- .61

Question 3

1 pts

What is $P(Y=1 | X=5)$?

- .61
- .70
- .25
- .05

Question 4

1 pts

What is $P(Y=1 | X=10)$?

- .75
- .20
- .70
- .30

Question 5

1 pts

X and Y are independent.

- True
- False

Question 6

1 pts

Y is a Bernoulli random variable.

- True
- False

Question 7

1 pts

X is a Bernoulli random variable.

- True
- False

Question 8**1 pts**

X and Y are IID random variables.

- True
- False

Question 9**1 pts**

What is $P(X=10 \mid Y=1)$?

No new data to save. Last checked at 9:45am

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