

<u>Course</u> > <u>Module 3 : Random</u>... > <u>Module 3 Quiz</u> > Module 3 Quiz

Module 3 Quiz

Adapt 148

1/1 point (graded)

Indicate if this variable is 'discrete' or 'continuous.'

Gender:

Discrete	V
00.00	•

Continuous

Submit

You have used 1 of 1 attempt

Adapt 149

1/1 point (graded)

Indicate if this variable is 'discrete' or 'continuous.'

Employment status





Submit

You have used 1 of 1 attempt

Adapt 150

1/1 point (graded)

Indicate if this variable is 'discrete' or 'continuous.'

Annual Salary reported in ranges (e.g., up to \$15,000, \$15,000-\$25,000, etc.)



Continuous

Submit You have used 1 of 1 attempt

1/1 point (graded)

Indicate if this variable is 'discrete' or 'continuous.'

Software company's 2018 revenue





Submit

You have used 1 of 1 attempt

Adapt 152

1/1 point (graded)

Indicate if this variable is 'discrete' or 'continuous.'

Number of drug companies producing a particular drug



Continuous

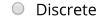
Submit

You have used 1 of 1 attempt

Adapt 153

1/1 point (graded)
Indicate if this variable is 'discrete' or 'continuous.'

Weight





Submit

You have used 1 of 1 attempt

Adapt 154

1/1 point (graded)
Indicate if this variable is 'discrete' or 'continuous.'

Height

O Discrete	
Contir	nuous ❤
Submit	You have used 1 of 1 attempt
Adapt 15	55
1/1 point (gra	
	raction of miles hiked in a month
O Discre	ete
Contir	nuous ✔
Submit	You have used 1 of 1 attempt

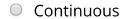
1/1 point (graded) Indicate if this variable is 'discrete' or 'continuous.' Time spent on homework Discrete Continuous You have used 1 of 1 attempt Submit Adapt 157 1/1 point (graded) Indicate if this variable is 'discrete' or 'continuous.' Number of heads tossed Discrete 🗸 Continuous You have used 1 of 1 attempt Submit

1/1 point (graded)

Indicate if this variable is 'discrete' or 'continuous.'

Number of even numbers tossed





Submit

You have used 1 of 1 attempt

Adapt 162

1/1 point (graded)

A toss of a 20-sided die is equally likely to be any integer between 1 and 20 inclusive. What is the expected value of the number tossed? Provide your answer to a single decimal point.





7/2010	Module 3 Quiz Module 3 Quiz DATZZZX Courseware edx
0 11.0	
0 11.5	
Submit	You have used 1 of 1 attempt
Adapt 16	8
	ded) 20-sided die is equally likely to be any integer between 1 and 20 inclusive. What is the variance? Please provide r to two decimal points.
0 5.77	
0 10.50	
33.25	✓
Submit	You have used 1 of 1 attempt

0/1 point (graded)

Submit

Based on historical results, a pharmaceutical company has determined that if a new cholesterol-reducing drug is manufactured (introduced to the market), the following probability distribution will describe this drug's contribution to the company's profits during the next six months.

Profit	Probability of Profit
Contribution	Contribution
-\$40,000	.20
\$60,000	.50
\$100,000	.30

You have used 1 of 1 attempt

Management has decided to market this product if the expected contribution to profit for the next six months is more than \$30,000. Based on the information given above, how much would you expect the new drug to contribute to the profit of the company?



1/1 point (graded)

I toss a fair coin 100 times. What is the probability that I observe more than 60 heads?

● 0.0176 	
0.0284	
O.9716	
0.9824	
Submit You have used 1 of 1 attempt	

Adapt 186

1/1 point (graded)

Suppose 2% of all cell phone chips are defective. We randomly select 100 of the 50,000 cell phone chips produced in a day. What is the chance that 0 defective chips will be found?

0.002

.1557 X

.2176

.8774

● 0.13 ✓	
0.20	
Submit	You have used 1 of 1 attempt
dapt 19:	
ankruptcy i	es and Exchange Commission has determined that the number of companies listed in NYSE declaring s approximately a Poisson distribution with a mean of 2.6 per month. What is the probability of exactly a s occurring during the next month?

Submit

You have used 1 of 1 attempt

Adapt 207

1/1 point (graded)

Assume the average weight of a loaf of bread is a normal random variable with mean = 1 pound and standard deviation .05 pounds. What is the probability that a loaf of bread weighs more than 1.05 pounds?



- 0.12
- 0.16

Submit

You have used 1 of 1 attempt

Adapt 220

1/1 point (graded)

Suppose the mean score on an exam is 70 with a standard deviation of 10. A score of 95 would have a Z-Score of:

0.15

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0 1.5	
0 2.0	
● 2.5 	
O 3.0	
Submit	You have used 1 of 1 attempt
Adapt 23	
1/1 point (grad	ded) fair six-sided die 400 times, what is the probability that the total number of dots is at least 1450?
● 0.07 ✔	•
0.10	
0.12	

Submit You have used 1 of 1 attempt

Adapt 233

0/1 point (graded)

Assume that the annual household expenditure on sugar is approximately normally distributed with a mean of \$8.22 and a standard deviation of \$1.10. What is the probability that a household spent more than \$10.00?

.0017 X	
0 .0050	
0 .0528	
○ .0874	
Submit You have used 1 of 1 attempt	

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