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Module 3 Quiz

Adapt 148

1/1 point (graded)

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

Gender:

☒ Discrete ✓

☐ 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

☒ Discrete ✓

☐ Continuous

Submit

You have used 1 of 1 attempt

Adapt 150

0/1 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.)

☒ Discrete ✓

☐ Continuous

Submit

You have used 1 of 1 attempt

i Answers are displayed within the problem

Adapt 151

1/1 point (graded)

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

Software company's 2018 revenue

☐ Discrete

☒ Continuous ✓

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

☒ Discrete ✓

☐ Continuous

Submit

You have used 1 of 1 attempt

Adapt 153

1/1 point (graded)

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

Weight

☐ Discrete

☒ Continuous ✓

Submit

You have used 1 of 1 attempt

Adapt 154

1/1 point (graded)

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

Height

☐ Discrete

☒ Continuous ✓

Submit

You have used 1 of 1 attempt

Adapt 155

1/1 point (graded)

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

Miles and fraction of miles hiked in a month

☐ Discrete

☒ Continuous ✓

Submit

You have used 1 of 1 attempt

Adapt 156

1/1 point (graded)

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

Time spent on homework

☐ Discrete

☒ Continuous ✓

Submit

You have used 1 of 1 attempt

Adapt 157

1/1 point (graded)

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

Number of heads tossed

☒ Discrete ✓

☐ Continuous

Submit

You have used 1 of 1 attempt

Adapt 158

1/1 point (graded)

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

Number of even numbers tossed

☒ Discrete ✓

☐ Continuous

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.

☐ 10.0

☒ 10.5 ✓

☐ 11.0

☐ 11.5

Submit

You have used 1 of 1 attempt

Adapt 168

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 variance? Please provide your answer to two decimal points.

☐ 5.77

☐ 10.50

☒ 33.25 ✓

Submit

You have used 1 of 1 attempt

Adapt 177

1/1 point (graded)

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

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?

☐ \$30,000

☒ \$52,000 ✓

☐ \$60,000

☐ \$76,000

Submit

You have used 1 of 1 attempt

Adapt 180

0/1 point (graded)

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

☐ 0.0176

☒ 0.0284 ✗

☐ 0.9716

☐ 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

☐ 0.02

☒ 0.13 ✓

☐ 0.20

Submit

You have used 1 of 1 attempt

Adapt 195

0/1 point (graded)

The Securities and Exchange Commission has determined that the number of companies listed in NYSE declaring bankruptcy is approximately a Poisson distribution with a mean of 2.6 per month. What is the probability of exactly 4 bankruptcies occurring during the next month?

☐ .1414

☐ .1557

☐ .2176

☒ .8774 ✗

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?

☐ 0.11

☐ 0.14

☐ 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:

☐ 1.5

☐ 2.0

☒ 2.5 ✓

☐ 3.0

Submit

You have used 1 of 1 attempt

Adapt 230

1/1 point (graded)

If we toss a 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

☐ 0.15

Submit

You have used 1 of 1 attempt

Adapt 233

1/1 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

☐ .0050

☒ .0528 ✓

☐ .0874

Submit

You have used 1 of 1 attempt