| \leftarrow | Quiz 2 |
|--------------|-------------------|
| | Quiz, 8 questions |
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| | |
| ← | • |

| 1 point | |
|--|-------------|
| 1. What is the variance of the distribution of the average an IID draw of n observations from a population with mean μ and variance σ^2 . | |
| \bigcirc σ^2 | |
| $\frac{\sigma^2}{n}$ | |
| $\int \sigma \ln r$ | |
| $\bigcirc 2\sigma/\sqrt{n}$ | |
| 1 point 2. Suppose that diastolic blood pressures (DBPs) for men aged 35-44 are normally distributed with a mean of 80 (mm Hg) and a standard devia About what is the probability that a random 35-44 year old has a DBP less than 70? | ation of 10 |
| <u> </u> | |
| 32% | |
| O 8% | |
| 22% | |

1 point

| 3. | |
|--------------------|--|
| Brain v represe | olume for adult women is normally distributed with a mean of about 1,100 cc for women with a standard deviation of 75 cc. What brain volume ents the & high and a standard deviation of 75 cc. What brain volume |
| | Quiz, 8 questions approximately 1223 |
| | approximately 977 |
| | approximately 1247 |
| | approximately 1175 |
| | |
| 1 point | |
| | o the previous question. Brain volume for adult women is about 1,100 cc for women with a standard deviation of 75 cc. Consider the sample of 100 random adult women from this population. What is the 95th percentile of the distribution of that sample mean? |
| | approximately 1110 cc |
| | approximately 1088 cc |
| | approximately 1112 cc |
| | approximately 1115 cc |
| | |
| point | |
| 5. You flip | a fair coin 5 times, about what's the probability of getting 4 or 5 heads? |
| | 3% |
| | 6% |
| | 19% |
| | 12% |

| 1 point | Quiz 2 |
|------------|--|
| standard | Quiz, 8 questions ratory disturbance index (RDI), a measure of sleep disturbance, for a specific population has a mean of 15 (sleep events per hour) and a deviation of 10. They are not normally distributed. Give your best estimate of the probability that a sample mean RDI of 100 people is 14 and 16 events per hour? |
| 34 | 4% |
| 99 | 5% |
| 4 | 7.5% |
| 68 | 3% |
| and take t | a standard uniform density. The mean for this density is .5 and the variance is 1 / 12. You sample 1,000 observations from this distribution the sample mean, what value would you expect it to be near? |
| 0. | 25 |
| 0. | 10 |
| 0. | 5 |
| 1 point | |

8

The number of people showing up at a bus stop is assumed to be

Poisson with a mean of 5 people per hour. You watch the bus

stop for 3 hours. About what's the probability of viewing 10 or fewer people?

| 0.12 | |
|---------|--|
| | |
| 0.03 | Quiz, 8 questions |
| 0.08 | |
| ccount. | Inscher, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera |
| | Submit Quiz |
| | 0.06 0.03 0.08 Dale Huccount. |

