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Test final 2

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The Question: 1 pt

A poll conducted in 1974 asked 1009 people, "During the past year, about how many books, either hardcover or paperback, did you read either all or part of the way through?" Results of the survey indicated that $\bar{x} = 19.2$ books and $s = 20.2$ books.

(a) Construct a 99% confidence interval for the mean number of books read either all or part of during the preceding year. Interpret the interval (12, 13.8). Were people reading more in 1974 than they are today?

(b) Click the icon to view the table of areas under the t-distribution.

(c) The 99% confidence interval for 1974 is $(\square, \square)$. (Use ascending order. Round to two decimal places as needed.)

Interpret the confidence interval. Which of the following is correct?

☐ A. We are 99% confident that the mean number of books read in 1974 is not in the interval. ☐ B. The probability that the interval contains the mean number of books read is 99%.

☐ C. We are 99% confident that the mean number of books read in 1974 is in the interval. ☐ D. The probability that the interval does not contain the mean number of books read is 99%.

(d) Were people reading more in 1974 than they are today?

☐ A. People were reading approximately the same number of books in 1974 as they are today.

☐ B. Yes, people were reading more in 1974 than they are reading today.

☐ C. No, people were reading less in 1974 than they are reading today.

Click to select your answer(s)

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This Question: 1 pt

Rule Tests 4 pts

2 of 4 complete *2*

The following data represent the ages of award winners for best actor and best actress in a leading role for the 20 years from 1985 to 2004. Answer parts (a) – (b) below.

Full data set: [Q](#)

Best Actor Ages						Best Actress Ages							
34	42	30	62	50	62	25	39	24	49	31	34	34	54
33	43	48	60	36	52	72	39	38	34	28	24	42	32
40	39	53	52	45	38	28	42	27	61				

(2) Construct a back to back stem-and-leaf display.

Best Actor Age	Best Actress Age
6	45
9866430	45768
855220	12444899
3320	229
20	4
	1
	2

(b) Compare the two populations. What can you conclude from the back to back stem-and-leaf display?

- 08 What the majority of both men and women receive an award in their lifetime, men tend to receive the award at a younger age on average than women do.
- 09 What the majority of both men and women receive an award in their lifetime, women tend to receive the award at a younger age on average than men do.
- 00 The majority of both men and women receive awards in their twenties and thirties.

Click to select your answer(s).

Previous Question

Heart Disease

Submit To:

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This Test: 4 pos

1 of 4 completed

Exclude leap years from the following calculations

- Compute the probability that a randomly selected person does not have a birthday on November 10. (Type an integer or a simplified fraction.)
- Compute the probability that a randomly selected person does not have a birthday on the 2nd day of a month. (Type an integer or a simplified fraction.)
- Compute the probability that a randomly selected person does not have a birthday on the 31st day of a month. (Type an integer or a simplified fraction.)
- The probability that a randomly selected person does not have a birthday on November 10 is .
- The probability that a randomly selected person does not have a birthday on the 2nd day of a month is .
- The probability that a randomly selected person does not have a birthday on the 31st day of a month is .
- The probability that a randomly selected person was not born in January is .

Enter your answer in each of the answer boxes.

Previous Direction

1997

Sobrikk i'ona