Houston Restaurant

Data were collected on the amount spent by 64 customers for lunch at a major Houston restaurant. These data are contained in excel file named $\underbrace{Houston}_{}$ $\underbrace{\bot}$. Based upon past studies, the population standard deviation is known to be \$6.00. (This is population standard deviation known case),

You can use descriptive statistics in the data analysis ToolPak to calculate the sample mean or calculate the mean of the sample using the AVERAGE function in excel.

O-Known

we can use MOE formula or confidence, norm in excel

\$21.52 ± 1.935

Stimulus

Corporate Bonds

A sample containing years to maturity and yield for 40 corporate bonds is contained in the <u>Corporate Bonds</u> $\underline{\downarrow}$ excel file. (This is a population standard deviation unknown case).

You can calculate the sample mean, sample standard deviation, and margin of error using Descriptive Statistics in the Data Analysis ToolPak.

using dota analysis toolpack in excel: Descriptive statistics At 99% confidence, what is the margin of error?

1.935

2 Essay 2 points

What are the confidence interval values at a 99% confidence level.

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\$ 19.56; \$23,46

6

3 Numeric 1 point

What is the sample mean years to maturity for corporate bonds?

9.7063

Essay 3 points

What are the confidence interval values at a 95% confidence level.

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4.1539; 12,2585 years

画

Language to the data and the confidence later and the properties before this	homowork dilection
I suggest viewing the video regarding confidencel intervals for proportions before this Suppose that 60 percent of 1,000 randomly selected U.S. adults say that they browse a	social media site while at work. Based on this finding, find a 95 percent confidence
interval for the proportion of all U.S. adults who would say that they browse social med 50 percent of all U.S. adults would say browse social media while at work? Please expla	an your rational.
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MOE: 0,0303 3+ mas 0,5697;	nfidence interval is above 50%
MOE: 0,0303 p± moe	allong interval is above 50%
p: 0.40 since the entire con	e to conclude that more than
it is reasonable	an adults enage in mill
50% of Americ	an adults engage in
daily physical	activity.
J J J J	
Stimulus	Multiple Choice 1 point
Hypothesis Testing	Thehypothesis is not rejected unless there is sufficient sample
Please write the null and alternative hypothesis for the following statements. Using the	evidence to do so.
guide from the video for setting up the mathematical conversions of statements discussed in class.	Alternative
	O Null
,	
•	Multiple Choice 1 point
	Thehypothesis will be accepted only if there is convincing sample evidence that it is true.
	Alternative
	○ Null
	8 True or False 1 point
	The null hypothesis is a statement that will be accepted only if there is
	convincing sample evidence that it is true. True
	O False
· · · · · · · · · · · · · · · · · · ·	9 True or False 1 point
	Based on a random sample of 25 units of product X, the average weight is 102 lbs. and the sample standard deviation is 10 lbs. We would like to decide
	whether there is enough evidence to establish that the average weight for the population of product X is greater than 100 lbs. Assume the population is
	normally distributed. One way of expressing the null hypothesis is H_0 : $\mu \approx 100$.
	True
	i alae

Based on a random sample of 25 units of product X, the average weight is 102lbs. and the sample standard deviation is 10 lbs. We would like to decide if there is enough evidence to establish that the average weight for the population of product X is greater than 100 lbs. The alternative hypothesis can be written as H_A : μ > 100. (Assume the population is normally distributed.)

- True
- False

Essay 2 points

Please write the null and alternative hypothesis for the following statement (you can use the insert math equation prompt to make it easier). An advertiser for a popular weight loss clinic suggests that participants in their new diet program lose on average more than 10 pounds. A competitor wants to determine if these claims are valid,

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Ho: U≤ 10 16s Ha: 12 > 10 lbs

▲ !!

Essay 2 points

Please write the null and alternative hypothesis for the following statement (you can use the insert math equation butto to make it easier) A research analysts disputes a trade group's prediction that back-to-school spending will average \$606,40 per family this year. The researcher believes that average back-to-school spending will significantly differ from this amount.

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tho: N = 6006.40 tha: N + 6006.40

6

File Upload 0 points

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Use this space to upload any files to show your work. This can include the excel sheets or any other documentation of work.



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