ENGINEERING STATISTICS -2

Time left 0:16:14

Question 15

Not yet answered

Marked out of 2.00

Flag question

Failure to reject significance of the regression hypothesis (Ho: $\beta 1 = 0$) is equivalent to concluding that there is no linear relationship between x and Y.

Select one:

- True
- False

Question 16

Not yet answered

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Flag question

The _____sum of squares measures the variability of the observed values around their respective treatment means

- a. treatment
- b. error
- c. interaction
- d. total

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Nine strips of fabric were randomly selected to study how this material deteriorates when buried in a landfill. Three of the strips were tested for strength at week 0, three were tested after being buried two weeks, and three were tested after being buried 4 weeks. A partial analysis of variance table is shown below.

Variation	Degrees of Freedom	Sum of Squares	Mean Squares	F-value
Treatment	----------	----------	----------	-------
Error	----------	76	----------	
Total	----------	226		

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Error		76	
Total	----------	226	

The mean squares for tr

- a. 75
- b. None of the menti
- c. 12.667
- d. 50
- e. 28.25

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A random sample has been taken from a normal distribution. Output from a software package follows:

Variable	N	Mean	SE Mean(standard error)	StDev (Standard devaition)
x	?	?	3.6515	20

The sample mean equals to:

Error	----------		-------
Total	----------		

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The mean squares for treatment is:

- a. 75
- b. None of the mentioned
- c. 12.667
- d. 50
- e. 28.25

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Finish attempt ...

Question 20

Not yet answered

Marked out of 2.00

Flag question

A random sample has been taken from a normal distribution. Output from a software package follows:

Variable	N	Mean	SE Mean (standard error)	StDev (Standard devaition)	Sum
x	?	?	3.6515	20	30420

The sample mean equals to:

- a. 1014
- b. 1024
- c. 174.5
- d. 1033
- e. 1034

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Question 17

Not yet answered

Marked out of 2.00

Flag question

A sample size of 50 yields 35 successes. If the null hypothesis H0: p= 0.4, The z-score for a right tailed test.

a. 4.33

b. None of the mentioned

c. 7.14

d. 10.12

e. 3.62

Question 18

Not yet answered

Marked out of 2.00

Flag question

When determining the sample size for a proportion for a given level of confidence and sampling error, the closer to 0.50 that p is estimated to be, the

a. smaller the sample size required

b. larger the sample size required

c. sample size is not affected.

d. effect cannot be determined from the information given

e. None of the mentioned

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Nine strips of fabric were randomly selected to study how this material deteriorates when buried in a landfill. Three of the strips were tested for strength at week 0, three were tested after being buried two weeks, and three were tested after being buried 4 weeks. A partial analysis of variance table is shown below.

Variation	Degrees of Freedom	Sum of Squares	Mean Square
Treatment	----------	----------	----------
Error	----------	76	----------
Total	----------	226	

The mean squares for treatment is:

- a. 75
- b. None of the mentioned
- c. 12.667
- d. 50
- e. 28.25

Quiz navigat

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A random sample has been taken from a normal distribution. Output from a software package follows:

Variable	N	Mean	SE Mean(standard error)	StDev (Standa devaition)
x	?	?	3.6515	20

The sample mean equals to:

- a. 1014

ENGINEERING STATISTICS -2

Time left 0:07:37

Question 21

Not yet answered

Marked out of 2.00

Flag question

In testing hypotheses to compare the means of two populations, the two populations need to have same variances.

Select one:

- True
- False

Question 22

Not yet answered

Marked out of 1.00

Flag question

Nine strips of fabric were randomly selected to study how this material deteriorates when buried in a landfill. Three of the strips were tested for strength at week 0, three were tested after being buried two weeks, and three were tested after being buried 4 weeks. A partial analysis of variance table is shown below.

Variation	Degrees of Freedom	Sum of Squares	Mean Squares
Treatment	----------	----------	----------
Error	----------	76	----------
Total	----------	226	

the value of the F-statistic is:

- a. 0.169
- b. 0.448

Flag question

Select one:

- True
- False

Time left 0:07:24

Question 22

Not yet answered

Marked out of 1.00

Flag question

Nine strips of fabric were randomly selected to study how this material deteriorates when buried in a landfill. Three of the strips were tested for strength at week 0, three were tested after being buried two weeks, and three were tested after being buried 4 weeks. A partial analysis of variance table is shown below.

Variation	Degrees of Freedom	Sum of Squares	Mean Squares	F-value
Treatment	----------	----------	----------	-------
Error	----------	76	----------	
Total	----------	226		

the value of the F-statistic is:

- a. 0.169
- b. 0.448
- c. 2.655
- d. None of the mentioned
- e. 5.920

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Finish attempt ...

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Data retention summary

Time left 0:05:20

Question 23

Not yet answered

Marked out of 2.00

Flag question

We use sample statistics to estimate population parameters.

Select one:

- True
- False

Question 24

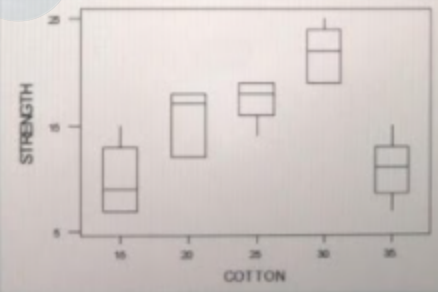
Not yet answered

Marked out of 2.00

Flag question

A manufacturer of synthetic fiber is interested in improving the tensile strength of the fiber. It is suspected that strength is related to the percentage of cotton in the fiber. A team of engineers responsible for the study decides to investigate five levels of cotton percentage: 15%, 20%, 25%, 30%, and 25%. Product engineers draw a comparative box plots of the cotton percentage. Use the box plot to determine which means are different.

Based on the figure below, which of the following sentence is correct:



- a. There are significant differences between all pairs of means except 20% and 25%.

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Question 24

Not yet answered

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Flag question

A manufacturer of synthetic fiber is interested in improving the tensile strength of the fiber. It is suspected that strength is related to the percentage of cotton in the fiber. A team of engineers responsible for the study decides to investigate five levels of cotton percentage: 15%, 20%, 25%, 30%, and 25%. Product engineers draw a comparative box plots of the cotton percentage. Use the box plot to determine which means are different.

Based on the figure below, which of the following sentence is correct:

a. There are significant differences between all pairs of means except 20% and 25%.

b. There are significant differences between all pairs of means except 15% and 35%.

c. There are significant differences between pairs of means 15% and 30%.

d. There are significant differences between pairs of means 20% and 25%.

e. There are significant differences between all pairs of means except 15% and 30%.

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Finish

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Question 25

Not yet answered

Marked out of 2.00

Flag question

A company produces metal pipes of a standard length and weight. They tested its production quality and found that length of the pipes produced were normally distributed. In a sample of 41 pipes, the standard deviation is 2.3 cm. Engineers claim that the population standard deviation is less than 2 cm.

The value of the appropriate test statistic to test the hypothesis is equal to:

:

- a. 30.25
- b. 23
- c. 51.58
- d. 52.9
- e. None of the mentioned

Question 26

Not yet answered

Marked out of 2.00

Flag question

Nine strips of fabric were randomly selected to study how this material deteriorates when buried in a landfill. Three of the strips were tested for strength at week 0, three were tested after being buried two weeks, and three were tested after being buried 4 weeks. A partial analysis of variance table is shown below. If $\alpha = 0.05$

Variation	Degrees of Freedom	Sum of Squares	M Sq

Flag question

responsible for the study decides to investigate five levels of cotton percentage: 15%, 20%, 25%, 30%, and 25%. Product engineers draw a comparative box plots of the cotton percentage. Use the box plot to determine which means are different.

Based on the figure below, which of the following sentence is correct:

- a. There are significant differences between all pairs of means except 20% and 25%.
- b. There are significant differences between all pairs of means except 15% and 35%.
- c. There are significant differences between pairs of means 15% and 30%.
- d. There are significant differences between pairs of means 20% and 25%.
- e. There are significant differences between all pairs of means except 15% and 30%.
- f. None of the mentioned

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- a. 30.25
- b. 23
- c. 51.58
- d. 52.9
- e. None of the mentioned

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22 23 24
25 26

Finish attempt ...

Question 26

Not yet answered

Marked out of 2.00

Flag question

Nine strips of fabric were randomly selected to study how this material deteriorates when buried in a landfill. Three of the strips were tested for strength at week 0, three were tested after being buried two weeks, and three were tested after being buried 4 weeks. A partial analysis of variance table is shown below. If $\alpha = 0.05$

Variation	Degrees of Freedom	Sum of Squares	Mean Squares	F-value
Treatment	----------	----------	----------	-------
Error	----------	76	----------	
Total	----------	226		

After Testing the hypothesis H0 : No treatment effects, the results is:

- a. Fail to reject the null hypothesis
- b. Reject the null hypothesis

Finish attempt ...

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