O c. 1.282

o d. 1.645

o e. 1.658

Question 4

Not yet answered

Marked out of 2.00

P 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 sum of squares for treatment:

o a. 150

O b. 302

o c. None of the mentioned

O d. 250

o e. 100

Finish o

Time left 0:50:16

Question 3

Not yet answered

Marked out of 2.00

P Flag question An instructor believes that he can improve TOEFL (Test of English as a Foreign Language) scores of his students by more than 100 points after just 5 lessons. The instructor takes a sample of 121 students' test scores after and before they received tutoring. The mean difference was 110 points better after tutoring, with a standard deviation of the difference equal to 12 points. Let \_µD denote the mean of the difference: score after tutoring minus score before tutoring.

Assuming a = 0.05, which of the following is the appropriate critical value?

- o a. None of the mentioned
- O b. 1.98
- o c. 1.282
- o d. 1.645
- o e. 1.658

Question 4

Not yet answered

Marked out of 2.00 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

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Finis

## Consider the following computer output.

				_	
Predictor	Coef	SE Coef	T	P	
Constant	-10.132	1.995	A	0.00	
x	0.17429	0.02383	В	0.00	
S = 1 Analysis of Var		= 74.8% R	Sq(adj)	- 73.4%	
Source	DF	SS	MS	F	P
Regression	1	D	E	F	0.00
Residual Error	C	31.266	1.737		

# The value of A is equal to:

- O a. -5.08
- O b. None of the mentioned
- O c. 5.08
- O d. -1.27
- O e. 1.27

Consider the following computer output.

ganf SE Coef

O d. -1.27

O e. 1.27

uestion 2

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.00 Flag question

Finish attempt ...

#### Consider the following computer output.

Predictor Constant	Coef -10.132	SE Coef 1.995	T A	P 0.00	
Х	0.17429	0.02383	В	0.00	
S = 1. Analysis of Var		= 74.8% R-	-Sq(adj)	= 73.4%	

Analysis of Varia	ance			-	
Source	DF	SS	MS	1	0 00
Regression	1	D	E	Y	0.00
Residual Error	C	31.266	1.737		
Total	19	124.200		1100	100

Based on the computer output on the hypothesis test in simple linear regression, the conclusion is:

- O a. For sure, the straight line model is adequate
- O b. There is a strong evidence to support the claim that H0: β1=0
- O c. There is not enough evidence to conclude that the slope differs from
- O d. None of the mentioned
- e. There is no linear relationship between x and Y

- c. None of the mentioned
- Od. 2, 7, and 9 respectively
- o e. 2, 5, and 7 respectively

uestion 6 Consider the following computer output. ot yet



The value of E is equal to:

- O a. 46.467
- o b. 89.369
- o c. 71.263
- O d. 92.934
- O e. 53.667

Next page

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DO

Time left 0:42:25

Quiz navigation

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.

4	5	6
7	8	9
10	11	12
12	77	15

Variation	Degrees of Freedom	Sum of Squares	Mean Squares	F-vaine
Treatment				
Error		76		
Total		226		121/22/18

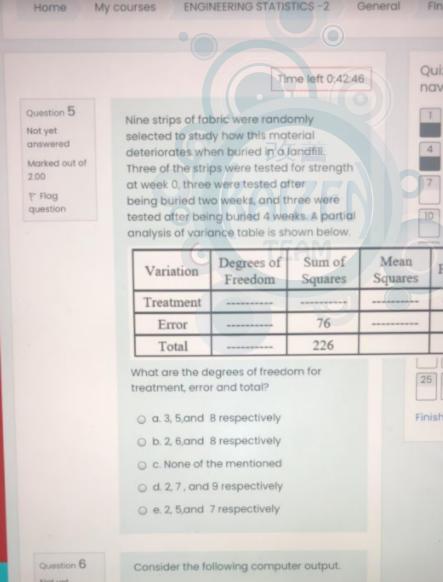
What are the degrees of freedom for treatment, error and total?

- a. 3, 5, and 8 respectively
- O b. 2, 6, and 8 respectively
- O c. None of the mentioned
- Od. 2, 7, and 9 respectively
- O e. 2, 5, and 7 respectively

Finish attempt ...

26

Consider the following computer output.



Question 7

Not yet answered

Marked out of

P Flag question of 470 randomly selected circuits produced in a photolithography process, 15 are defectives. How large must the sample be if we wish to be at least 95% confident that the error in estimating p (proportion of defective circuits) is less than 0.02 regardless of the true value of p?

- O a. 297
- o b. 2400
- O c. 296
- O d. 1406
- O e. 2401



Question 8

Not yet answered

Marked out of

F Flag

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.

At a 0.05 level of significant, the critical value for the test is:

- o a. 59.34
- O b. 26.51
- o c. 1.64
- o d. 55.76
- O e. 67.5
- o f. 29.05

Quiz





















Time left 0:25:50

#### Question 11

Not yet answered

Marked out of

P Flag question An instructor believes that he can improve TOEFL (Test of English as a Foreign Language) scores of his students by more than 100 points after just 5 lessons. The instructor takes a sample of 121 students' test scores after and before they received tutoring. The mean difference was 110 points better after tutoring, with a standard deviation of the difference equal to 12 points. Let µD denote the mean of the difference: score after tutoring minus score before tutoring.

The value of test statistic is:

- O a. 8.94
- O b. 89.42
  - O c. 9.17
- O d. 81.98



KAIZE

TEAM

#### Question 12

Not yet answered

Marked out of 2.00

F Flog question

#### Consider the following computer output.

Predictor	Conf	SE Coat	-	/_	
Constant		1.995		0.00	
*	0.17429	0.02383	2	0.00	
Analysis of Va	.318 S-5q	- 24.05 8	-Sq(adj)	73.4%	
Source	DF	85	363	7	
Regression	1	0.	*	*	0.00
Residual Error	0.	31.266	1.737		
Total	19	124,200			

#### The value of F is equal to:

- O a. 53.5
- b. None of the mentioned
- O c. 80.25
- O d. 92.93
- O e. 26.75

Quiz naviga

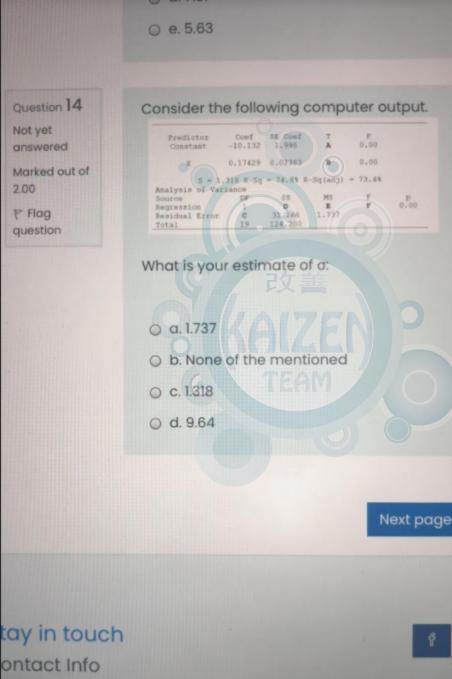
4

13 1

19 20

22 2

Finish at



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#### Time left 0:21:16

## Question 13

Not yet answered

Marked out of 2.00

2.00

P Flag question

### Consider the following computer output.



#### The value of B is equal to:

- o a. None of the mentioned
- O b. 17.113
- O c. 2.03
- O d. 7.31
- O e. 5.63

#### Question 14

Not yet answered

Marked out of 2.00

P Flag question

## Consider the following computer output.

Predictor	Coef	SE Coef	T	p	
Constant	-10.132	1.995	A	0.00	
×	0.17429	0.02383	2	0.00	
S = 1. Analysis of Var	318 R-Sq iange	- 74.8% R	-Sq(adj)	73.45	
Source	DF	55	MS	2	P
Regression	1	D	E	Y	0.00
Residual Error	C	31.266	1.737		
Total	19	124.200			

What is your estimate of o:



Home My courses

**ENGINEERING STATISTICS -2** 

General

Final Exam

Time left 0:32:33

Question 9

Not yet answered

Marked out of 2.00

P Flag

question

One sample T test

H0:µ=300, H0:µ>300, N

Variable (Sample size)

7

Mean (sample standard deviation)

The significance level is 0.05, P-value for the test is:

315

Consider the following computer output:

a. 0.0025<P-value<0.005

O b. 0.005 P-value (0.0)

o c. 0.025<P-value<0.05

O d. 0.05 P-value (0.1)

@ e. 0.01<P-value<0.025

Question 10

Not yet answered

Marked out of 2.00

₹ Flag question Of 470 randomly selected circuits produced in a photolithography process, 15 are defectives. How large must the sample be if we wish to be 95% confident that the error in estimating p (proportion of defective circuits) is less than 0.02 regardless of the true value of p?

O a. 2400

O b. 297

O c. 1406

O d. 296

Quiz navigation















Finish atten