UNIVERSITY OF BISKRA DEPARTMENT OF ENGLISH			M2 -SCIENCE OF LANGUAGES	SEMESTER 3 - EXAM	
F	ULL NAME:		DATE: January 8 th , 2024		
Ġ	GROUP NUMBER:		TIME: 90 minutes	20	
F	ACTIVITY ONE (10 POINTS)				
Tie	ck (✓) the correct answer:				
1.	If σ^2 is 1.35, the population standard deviation is: 0.67 1.16 2.70 1.82	2.	If p = .0301 in the Levene's test, t The variances are homogene The data are normally distril The variances are heterogene The data are not normally distril	eous outed neous	
3.	A large variance often suggests that: The data are very close to the mean The data are very spread out from the mean The variances are homogeneous The variances are heterogeneous	4.	In the dataset (42, 24, 12, 53, 17, is: 33 53 17 17 17 and 53	47, 53, 17), the median	
5.	A sampling approach that divides the population into groups and selects participants randomly: Stratified sampling Quota sampling Systematic sampling Cluster sampling	6.	Negative correlation between stu- oral fluency suggests that: Increased talking time increased talking time is related. Increased talking decreases. Increased talking time is related.	ases oral fluency ated to increased fluency oral fluency	
7.	In the Kolmogorov–Smirnov test, P = .046, means: The data are normally distributed The data are not normally distributed The data are significant The data are not significant	8.	The hypothesis "Exposure to authorhonetic accuracy" is: Null hypothesis Non-directional hypothesis Directional hypothesis None of the above	nentic materials affects	
9.	In a speech fluency task, the number of words perminute is: Nominal data Ordinal data Interval data Ratio data	10.	The role of inferential statistics is Summarizing the data of a set Making predictions about a All of the above None of the above	ample	

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ACTIVITY TWO (5 POINTS)

Summarize the following dataset in the descriptive statistics table including measures of frequency, measures of central tendency, and measures of spread.

Dataset

Participants	Pretest	Posttest
Student 1	4.67	4.92
Student 2	5.49	6.37
Student 3	5.19	5.29
Student 4	6.72	6.79
Student 5	4.98	5.48
Student 6	3.86	4.76

Descriptive statistics table

TEST	Σ	x	S ²	S
Pretest	••••			
Posttest				

ACTIVITY THREE (5 POINTS)

A researcher employed a structured questionnaire to ask eight people about their use of physical libraries versus use of online libraries with the frequency scale bellow. Summarize the dataset in the descriptive statistics table below:

Frequency scale	Never	Rarely	Sometimes	Often	Always
	0	1	2	3	4

Dataset

Participant	Gender	Physical library use	Online library use
Subject 1	Male	1	4
Subject 2	Female	3	0
Subject 3	Male	4	2
Subject 4	Male	3	2
Subject 5	Female	4	3
Subject 6	Male	3	2
Subject 7	Female	4	2
Subject 8	Male	2	1

Descriptive statistics table

	Physical library use			Online library use		
Gender	x	S ²	S	x	S ²	S
Female						
Male						
Total						