FULL NAME:			M2 -SCIENCE OF LANGUAGES	SEMESTER 3 - EXAM
			DATE: January 8 th , 2024	
Ó	GROUP NUMBER:		TIME: 90 minutes	20
	ACTIVITY ONE (10 POINTS) – 1 point for each correct (\checkmark) the correct answer:	t ans	swer.	
1.	If σ^2 is 1.35, the population standard deviation is:	6.	If p = .0501 in the Levene's test, tl	nen:
	O.67		The variances are homogeneral	eous
	1.16		The data are normally distril	outed
	O 1.82		The variances are heteroger	eous
	O 2.70		The data are not normally disconnected.	istributed
2.	A bimodal distribution often suggests that the data were collected with:	7.	In the dataset (21, 15, 4, 24, 7, 23	, 24, 7), the median is:
	Two distinct data collection instruments		O 7	
	 Two distinct data analysis methods 		O 24	
	 Two distinct statistical tests 		18	
	Two distinct populations		7 and 24	
3.	into strata and selects participants non-randomly:		Positive correlation between stud	ents' talking time and
			oral fluency suggests that:	
	Stratified sampling		Increased talking time increased	•
	Quota sampling		Increased talking time is related	
	Systematic sampling		 Increased talking decreases 	oral fluency
	Cluster sampling		 Increased talking time is relafluency 	ited to decreased
4.	In the Kolmogorov–Smirnov test, P = .500, means:	9.	The hypothesis "Increased exposumaterials improves phonetic accu	
	The data are normally distributed		Null hypothesis	,
	The data are not normally distributed		Non-directional hypothesis	
	The data are significant		Directional hypothesis	
	The data are not significant		None of the above	
5.	In a word recognition task, the time taken to respond is:		The role of descriptive statistics is	:
	Nominal data		Summarizing the data of a s	ample
	Ordinal data		 Making predictions about a 	·
	Interval data		All of the above	
	Ratio data		None of the above	

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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	5.30	5.64
Student 2	6.75	6.78
Student 3	7.19	7.14
Student 4	5.84	5.79
Student 5	6.43	6.40
Student 6	7.26	7.82

Descriptive statistics table

TEST	Σ	x	S ²	S
Pretest	38.77 (0.5pts)	6.46 (0.5pts)	0.60 (0.75pts)	0.77 (0.75pts)
Posttest	39.57 (0.5pts)	6.60 (0.5pts)	0.69 (0.75pts)	0.83 (0.75pts)

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:

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

Dataset

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

Descriptive statistics table

	P	Physical library use			Online library use		
Gender	x	S ²	S	x	S ²	S	
Female	2 (0.25pts)	1 (0.25pts)	1 (0.25pts)	3 (0.25pts)	1 (0.25pts)	1 (0.25pts)	
Male	2.40 (0.25pts)	1.30 (0.25pts)	1.14 (0.25pts)	3 (0.25pts)	0.50 (0.25pts)	0.71 (0.25pts)	
Total	2.25 (0.25pts)	1.07 (0.5pts)	1.04 (0.25pts)	3 (0.25pts)	0.57 (0.5pts)	0.76 (0.25pts)	