

Statistics homework

Homework must be submitted as an excel file in moodle by 27.02.2025. 23:59

The name of the file must be your surname and name, for example, KapinaLiena.xlsx
If the file is submitted in the wrong format, has an incorrect name or is late you will receive 70% of all possible points on this homework. For instance, a file submitted on 28.02. at 2:13 that would normally receive 10 points would only receive 7 points.

You must complete the tasks for the file which is specified below, otherwise you will receive 0 points.

Variant	Name
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Copy this table into excel.

V2 mean	
V2 median	
V2 range	
V2 Q0	
V2 Q1	
V2 Q2	
V2 Q3	
V2 Q4	
V2 IQR	
V2 outliers are smaller than	
V2 outliers are larger than	
V2 variance	
V2 standard deviation	
V2 and V3 correlation	

Additionally, create a frequency table for V2 and pick your own data intervals.

Frequency table for V2				
	frequency	cumulative frequency	relative frequency	relative cumulative frequency
interval 1				
interval 2				
...				

No	Task	Points	Max points
1.	Calculate the mean for V2		1
2.	Calculate the median for V2		1
3.	Calculate the range for V2		1
4.	Calculate all quartiles for V2	Q0, Q2, and Q4 - Q1 and Q3 -	2
5.	Calculate IQR for V2		1
6.	Calculate interval for detecting outliers		1
7.	Calculate variance for V2		1
8.	Calculate standard deviation for V2		1
9.	Calculate Pearson's correlation between V2 and V3		1
10.	Choose reasonable intervals for V2 and make a frequency table with them		1
11.	Calculate frequency for your intervals (must be done using function COUNTIF ¹)		1
12.	Calculate cumulative frequency for your intervals		1
13.	Calculate relative frequency for your intervals		1
14.	Calculate relative cumulative frequency for your intervals		1
	Total		15