

Quiz (1)  
Student Name:

STAT 101

First Semester (1438/1439)  
Student ID:

No. Section:

(4 marks)

Question: Classify each variable as Qualitative or Quantitative.

Blood group of people.	(Qualitative )
Time to get home.	(Quantitative )
Height of students.	(Quantitative )
Colors of flowers.	(Qualitative )

(4 marks)

Question: Classify each variable as Continuous or Discrete.

Wight of children.	(Continuous )
Numbers of seating (or chairs) in garden.	(Discrete )
Age of cats.	(Continuous )
Type of cars.	(Discrete )

(4 marks)

Question: Answer with true or false to the following sentences.

Mode is defined for qualitative data.	(true )
The mean is sensitive to extreme values.	(true )
For a skewed distribution of data we have: Mode = Median = Mean	(false )
Histogram with two peaks is multimodal.	(false )

(4 marks)

Question: Put the right word or symbol in its proper position:  
sample, variable, statistic, bar chart, mode, Descriptive Statistics

The Descriptive Statistics \_\_\_\_\_ is those statistical methods or techniques which are used for presenting and summarizing data in either tables or graphs form.

A statistic \_\_\_\_\_ is a function of a sample.

A variable \_\_\_\_\_ is a characteristic, feature or factor that varies from one individual to another in a population.

In a bar chart \_\_\_\_\_, the frequency of each class is represented by a bar. The height of the bar corresponds to the frequency of the class. The width of the bar doesn't matter

(14 marks)

We consider the following data:

5.5	7.5	6	6.5	7	6.75	7	7.25	7.5	7.75	8
8.25	9	9.75	10	10.25	10.5	10.75	9	9.25	9.5	9.75
10.25	10.5	11	12	12.5	11.5	11.25	11.75	12.75	12.99	13.01
13.25	13.5	14.88	9.01	9.55	10.10	10.88				

(9 marks)

a) Complete the following frequency distribution. Delete a quarter mark for each error

Class Boundaries	Midpoint	Frequency	Relative Frequency	Percentage %	A.C.F
5 → 7	6	4	$4/40 = 0.1$	$0.1 \times 100 = 10$	4
7 → 9	8	8	0.2	20	4+8 = 12
9 → 11	10	16	0.4	40	28
11 → 13	12	8	0.2	20	36
13 → 15	14	4	0.1	10	40
Total		40	1	100	—

b) Draw the histogram for the data of above frequency distribution table. (5 marks)

