Default for STT205
The default category for questions shared in context 'STT205'.
Fill in the Blank (FBQs)
FBQ1
Any measure indicating the Centre of a set of data, arranged in an increasing or decreasing order of magnitude, is called a measure of: _____

Central tendency
1.0000000

0.0000000
FBQ2
Scores that differ greatly from the measures of central tendency are called:_____

Outliers
1.0000000
Extreme values
1.0000000
Extreme scores
1.0000000
FBQ3
The total of all the observations divided by the number of observations is called: _____

Arithmetic mean
1.0000000

0.0000000
FBQ4
The sample mean is an example of a: _____

Statistic
1.0000000

0.0000000
FBQ5
The population mean μ is an example of a:

Parameter
1.0000000

0.0000000
FBQ6
The arithmetic mean is highly affected by: _____

Extreme values
1.0000000
Outliers
1.0000000
FBQ7
If a constant value is added to every observation of data, how would the value of the arithmetic mean behave? _____

Increased by the constant
1.0000000

0.0000000
FBQ8
The median is considered a robust measure because it is resistant to: _____

Outliers
1.0000000
Extreme values

1.0000000
FBQ9
What effect will the elimination of extreme scores at the bottom of a data set have on the mean? _____

Increase the mean
1.0000000

0.0000000
FBQ10
The elimination of extreme scores at the top of the set has the effect of:

Reduce the mean
1.0000000

0.0000000
FBQ11
The sum of deviations taken from mean is: _____

0
1.0000000
Zero
0.0000000
FBQ12
The sum of the squares of the deviations about mean divided by the number of observations is: _____

Variance
1.0000000

0.0000000
FBQ13
If then sample mean X- will be: _____

60
1.0000000

0.0000000
FBQ14

25
1.0000000

0.0000000
FBQ15
The sum of the squares of the deviations of the values of a variable is least when the deviations are measured from: _____

Arithmetic mean
1.0000000

0.0000000
FBQ16
If X-=100 and Y=2X – 200, then mean of Y values will be: _____

0
1.0000000
Zero
1.0000000
FBQ17
Step deviation method or coding method is used for computation of the_____

Arithmetic mean

1.0000000

0.0000000
FBQ18
If the arithmetic mean of 20 values is 10, then sum of these 20 values is:_____

200
1.0000000

0.0000000
FBQ19
Ten families have an average of 2 boys. How many boys do they have together?

20
1.0000000

0.0000000
FBQ20
If the arithmetic mean of the two numbers X1 and X2 is 5 if X1=3, then X2 is:_____

7
1.0000000

0.0000000
FBQ21
Given X1=20 and X2=-20. The arithmetic mean will be: _____

0
1.0000000
Zero
1.0000000
FBQ22
The mean of 10 observations is 10. All the observations are increased by 10%. The mean of increased observations will be: _____

11
1.0000000

0.0000000
FBQ23
The frequency distribution of the hourly wage rate of 60 employees of a paper mill is as follows:

The mean wage rate is:N_____

59.00
1.0000000
59
1.0000000
FBQ24
The sample mean X- of first n natural numbers is: _____

(n+1)/2
1.0000000

0.0000000
FBQ25
The sum of deviations is zero when deviations are taken from:_____

Mean
1.0000000

0.0000000

0.0000000
FBQ26
When the values in a series are not of equal importance, we calculate the: _____

Weighted mean
1.0000000

0.0000000
FBQ27
When all the values in a series occur the equal number of times, then it is not possible to calculate the:_____

Weighted mean
1.0000000

0.0000000
FBQ28
The mean for a set of data obtained by assigning each data value a weight that reflects its relative importance within the set, is called:_____

Weighted mean
1.0000000

0.0000000
FBQ29
The arithmetic mean of 10 items is 4 and the arithmetic mean of 5 items is 10. The combined arithmetic mean is: _____

6
1.0000000

0.0000000
FBQ30
The midpoint of the values after they have been ordered from the smallest to the largest or the largest to the smallest is called:____

Median
1.0000000

1.0000000
FBQ31
The first step in calculating the median of a discrete variable is to determine the: _____

Array
1.0000000

0.0000000
FBQ32
The suitable average for qualitative data is: _____

Median
1.0000000

0.0000000
FBQ33
If the smallest observation in a data is decreased, the average which is not affected is: ____

Median

1.0000000

0.0000000
FBQ34
Sum of absolute deviations of the values is least when deviations are taken from: _____

 0
1.0000000
 zero
1.0000000
FBQ35
The frequency distribution of the hourly wages rate of 100 employees of a paper mill is as follows:

The median wage rate is:N ____

59.00
1.0000000
59
1.0000000
Multiple Choice Questions (MCQs)
MCQ1
The values of the variate that divide a set of data into four equal parts after arranging the observations in ascending order of magnitude are called:

Semi-interquartle

0.0000000
quartiles

1.0000000
mean

0.0000000
limits

0.0000000
MCQ2
The lower and upper quartiles of a symmetrical distribution are 40 and 60 respectively. The value of median is:

50

1.0000000
45

0.0000000
60

0.0000000
35

0.0000000
MCQ3
If in a discrete series 75% values are less than 30, then:

Third quartile =30

1.0000000
Second quartile = 30

0.0000000
Third quartile = 75

0.0000000
None of the options

0.0000000
MCQ4
The probability of the amount X (in million Naira) of investment in the shares of ABC Company is given as follows:

Find E (X).

73/5

0.0000000
36/21

0.0000000
35/18

1.0000000
4/5

0.0000000
MCQ5
The mean of first 2n natural numbers is:

(2n+1)/2

1.0000000
(2n-1)/2

0.0000000
(n+1)/2

0.0000000
(2n+5)/2

0.0000000
MCQ6
If X-1, X-2, X-3,….X-k be the arithmetic means of k distributions with respective frequencies n1, n2, n3, … ,nk, then the mean of the whole distribution X-c is given by:

∑nX-∑2n

0.0000000
∑nX-∑n

1.0000000
∑2nX-4∑n

0.0000000
∑2X-∑n

0.0000000
MCQ7
The combined arithmetic mean of two sets of means is calculated by which formula?

n1X-1+n2 X-22n1+n2

0.0000000

n1X-1+n2 X-2n1+2n2

0.0000000
n1X-1-n2 X-2n1+2n2

0.0000000
n1X-1+n2 X-2n1+n2

1.0000000
MCQ8
Extreme scores will have the following effect on the median of an examination

They may have no effect

1.0000000
The effect is always skewed

0.0000000
The effect is always negative

0.0000000
The effect is always positve

0.0000000
MCQ9
The probability of the amount X (in million Naira) of investment in the shares of ABC Company of Adewale is given as follows:

E(X). is actually 5.89. What is the variance of X?

1.61

0.0000000
3.64

0.0000000
2.11

1.0000000
4.76

0.0000000
MCQ10
The grouped frequency distribution shown below is to be used to answer the following question

Which class is the modal class?

20 - 24

1.0000000
10 -14

0.0000000
30 - 34

0.0000000
15 - 19

0.0000000
MCQ11
The grouped frequency distribution shown below is to be used to answer the following question

Which class is the median class?

20 - 24

1.0000000
10 -14

0.0000000
30 - 34

0.0000000
15 - 19

0.0000000
MCQ12
The grouped frequency distribution shown below is to be used to answer the following question

What is the cumulative frequency of the modal class?

16

0.0000000
10

0.0000000
14

1.0000000
12

0.0000000
MCQ13
For a standard normal distribution, what is the values of the mean and variance?

Mean = 0, variance = 1

1.0000000
Mean = 1, variance = 0

0.0000000
Variance = 0

0.0000000
Mean = 1

0.0000000
MCQ14
Given the set of numbers: 15, 16, 12, 11, 19, 18, 13 then is,

1200

0.0000000
980

0.0000000
1460

0.0000000
1600

1.0000000
MCQ15
The mean of 63, 19, 52, 10, 95, 18 is

56.18

0.0000000
42.83

1.0000000
60.5

0.0000000
50.21

0.0000000
MCQ16
The median of 63, 19, 52, 10, 95, 18 is

30.6

0.0000000
50.8

0.0000000
35.5

1.0000000
40.7

0.0000000
MCQ17
The mode and the range of the above data are

40, 40

1.0000000
30, 40

0.0000000
40, 50

0.0000000
50, 40

0.0000000
MCQ18
The geometric mean of 6, 8, 10 and 16 is

9.36

1.0000000
11.23

0.0000000
8.11

0.0000000
10.23

0.0000000
MCQ19
The harmonic mean of 6, 7, 8 and 9 is

8.32

0.0000000
6.89

0.0000000
7.33

1.0000000
9.61

0.0000000
MCQ20
Given that the mean of a distribution is 160, the mode is 150 and the standard deviation is 25. Find the coefficient of skewness

3.5

0.0000000
1.5

0.0000000
0.6

0.0000000
0.4

1.0000000
MCQ21
A set of sales from an outlet produced the following: 16, 14, 18, 10, 12 compute the variance

9

0.0000000
10

0.0000000
8

1.0000000
12

0.0000000
MCQ22
The coefficient of variation for data set whose mean is 10 and variance 100 is

100%

1.0000000
80%

0.0000000

95%

0.0000000
75%

0.0000000
MCQ23
For a symmetric distribution

The mean, median and the mode are equal

1.0000000
The mean, median are equal

0.0000000
The mean, mode are equal

0.0000000
The mean, median and the mode are different

0.0000000
MCQ24
Which statistics is found by summing all the values and dividing by the number of observations?

The median

0.0000000
The arithmetic mean

1.0000000
The mode

0.0000000
None of the options

0.0000000
MCQ25
How would you describe the skewness of a distribution whose mean is smaller than the median?

Negatively skewed

1.0000000
Positively skewed

0.0000000
normal

0.0000000
None of the options

0.0000000
MCQ26
What level of measurement is required for the median?

nominal

0.0000000
ordinal

1.0000000
discrete

0.0000000
continuous

0.0000000
MCQ27
The Nigeria Stock Exchange (NSE) index increased from 961 in 1980 to over 9,500 in 2003. The annual rate of increase is best described by the

Geometric mean

1.0000000
Harmonic mean

0.0000000
Arithmetic mean

0.0000000
Standard variation

0.0000000
MCQ28
What is the shape of a frequency distribution with an arithmetic mean of 12,000 pounds, a median of 12,000 pounds, and a mode of 12,000 pounds?

symmetric

1.0000000
asymmetric

0.0000000
Beta

0.0000000
alpha

0.0000000
MCQ29
Given that the mean of a distribution is 60, the mode is 50 and the standard deviation is 25. Find the coefficient of skewness:

0.6

0.0000000
0.9

0.0000000
0.7

0.0000000
0.4

1.0000000
MCQ30
A set of experimental animals was fed in a special diet for one week and produced the following gains in weight: 6, 4, 8, 10, 12 compute the variance:

8

1.0000000
10

0.0000000
9

0.0000000
7

0.0000000
MCQ31
The coefficient of variation for data set whose mean is 16 and variance 10 is

19.8

1.0000000
12.7

0.0000000
10.8

0.0000000
14.7

0.0000000
MCQ32
Given the mean = 60 and variance is 625, find the coefficient of variation

63.9%

0.0000000
55.7%

0.0000000
41.7%

1.0000000
72.1%

0.0000000
MCQ33
Suppose A and B are independent events with PA=0.2, PB=0.6..What is PAB=?

0.4

0.0000000
0.2

1.0000000
0.7

0.0000000
0.1

0.0000000
MCQ34
In a shipping organization, it is observed that the total number of items imported is 400 units. If you are to categorise these items into types of commodity with the aid of a pie chart, what angle would 160 units of chemical take?

144 degree

1.0000000
152 degree

0.0000000
98 degree

0.0000000

108 degree

0.0000000
MCQ35
The data collected by questionnaires are usually classified as what type of data?

Secondary data

0.0000000
direct

0.0000000
indirect

0.0000000
Primary data

1.0000000