

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: _____

Answer: Central tendency

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

Answer: Outliers

FBQ3: The total of all the observations divided by the number of observations is called:

_____ Answer: Arithmetic mean

FBQ4: The sample mean \bar{X} is an example of a: _____

Answer: Statistic

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

Answer: Parameter

FBQ6: The arithmetic mean is highly affected by: _____

Answer: Extreme values

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

Answer: Increased by the constant

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

Answer: Outliers

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

Answer: Increase the mean

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

Answer: Reduce the mean

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

Answer: 0

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

Answer: Variance

FBQ13: If $\sum_{i=1}^n (X_i - 50) = 100$ then sample mean \bar{X} will be: _____

Answer: 60

FBQ14: For a certain distribution, if $\sum (X - 20) = 25$, $\sum (X - 25) = 0$, and $\sum (X - 35) = -25$, then \bar{X} is equal to:

Answer: 25

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

Answer: Arithmetic mean

FBQ16: If $\bar{X}=100$ and $Y=2X \pm 200$, then mean of Y values will be: _____

Answer: 0

FBQ17: Step deviation method or coding method is used for computation of the _____

Answer: Arithmetic mean

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

Answer: 200

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

Answer: 20

FBQ20: If the arithmetic mean of the two numbers X_1 and X_2 is 5 if $X_1=3$, then X_2 is: _____

Answer: 7

FBQ21: Given $X_1=20$ and $X_2=-20$. The arithmetic mean will be: _____

Answer: 0

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

Answer: 11

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 _____

Answer: 59.00

FBQ24: The sample mean \bar{X} of first n natural numbers is: _____

Answer: $(n+1)/2$

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

Answer: Mean

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

Answer: Weighted mean

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

Answer: Weighted mean

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: _____

Answer: Weighted mean

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

Answer: 6

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: _____

Answer: Median

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

Answer: Array

FBQ32: The suitable average for qualitative data is: _____

Answer: Median

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

Answer: Median

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

Answer: Median

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 _____

Answer: 59.00

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:

Answer: quartiles

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

Answer: 50

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

Answer: Third quartile = 30

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).

Answer: 35/18

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

Answer: $(2n+1)/2$

MCQ6: If $X_1, X_2, X_3, \dots, X_k$ be the arithmetic means of k distributions with respective frequencies $n_1, n_2, n_3, \dots, n_k$, then the mean of the whole distribution X_c is given by:

Answer: $\hat{\sigma}^2 = \frac{1}{n} \sum (X_i - \bar{X})^2$

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

Answer: $\frac{n_1 \bar{X}_1 + n_2 \bar{X}_2}{n_1 + n_2}$

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

Answer: They may have no effect

MCQ9: The probability of the amount X (in million Naira) of investment in the shares of ABC Company of Adewale is given as follows: $E(X^2) = 5.89$. What is the variance of X ?

Answer: 2.11

MCQ10: The grouped frequency distribution shown below is to be used to answer the following question Which class is the modal class?

Answer: 20 - 24

MCQ11: The grouped frequency distribution shown below is to be used to answer the following question Which class is the median class?

Answer: 20 - 24

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?

Answer: 14

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

Answer: Mean = 0, variance = 1

MCQ14: Given the set of numbers: 15, 16, 12, 11, 19, 18, 13 then $\sum x$ is,

Answer: 1600

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

Answer: 42.83

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

Answer: 35.5

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

Answer: 40, 40

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

Answer: 9.36

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

Answer: 7.33

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

Answer: 0.4

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

Answer: 8

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

Answer: 100%

MCQ23: For a symmetric distribution

Answer: The mean, median and the mode are equal

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

Answer: The arithmetic mean

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

Answer: Negatively skewed

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

Answer: ordinal

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

Answer: Geometric mean

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?

Answer: symmetric

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:

Answer: 0.4

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:

Answer: 8

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

Answer: 19.8

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

Answer: 41.7%

MCQ33: Suppose A and B are independent events with $P_A=0.2$, $P_B=0.6$. What is
 $P_{AB}=?$

Answer: 0.2

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?

Answer: 144 degree

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

Answer: Primary data