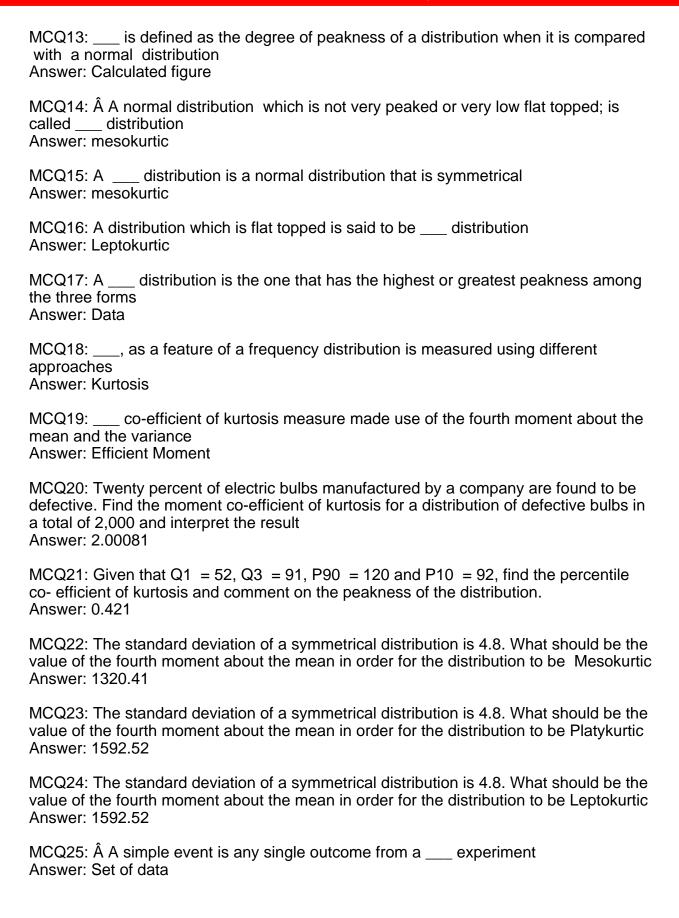
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Multiple Choice Questions (MCQs): MCQ1: 1st quartile = 2.5th Decile = ____ Answer: 11th Percentile MCQ2: 2nd quartile = 5th Decile =? Answer: 2nd Percentile MCQ3: Given the set of observation as: - 7, 12, 18, 15, 20, 19, 16, 13, 23 and 17. Find: the lower quartile Answer: 11 MCQ4: Given the set of observation as: -7, 12, 18, 15, 20, 19, 16, 13, 23 and 17. Find: the semi-interquartile range Answer: 1 MCQ5: Â A is one part when a distribution is broken down into ten equal parts or divisions Answer: Percentile MCQ6: Given a set of scores as: 17, 23, 13, 12, 16, 7, 19, 20, 18 and 15. Find the 8th decile Answer: 12.4 MCQ7: A ____ is one part when a distribution is divided into one hundred (100) equal parts Answer: Set of data MCQ8: ____ is a general class of measures used in measuring the central tendency and dispersion **Answer: Equation** MCQ9: Charlier's check and Sheppard's correction are used to guide against Answer: Data error MCQ10: is the degree of asymmetry or departure from symmetry of a distribution Answer: Skewness MCQ11: Â ____ is defined as a measure of departure of a distribution from symmetry Answer: Model MCQ12: For skewed distributions, the mean tends to lie on the same side of the ____ Answer: Line



MCQ26: In probability, an experiment is any process that can be repeated in which the results are Answer: Uncertain
MCQ27: Probability is a measure of the likelihood of a random phenomenon or chance behaviour Answer: Data analysis
MCQ28: space is the outcomes in an experimental probability cannot be decomposed into more basic parts Answer: Sample size
MCQ29: Â is the ratio of the number of expected outcome to the number of all possible outcomes Answer: Non Probabbility
MCQ30: If the probability that it will rain in Lagos is ¼, what is the probability that it will NOT rain in lagos? Answer: 0.34
MCQ31: Two events are said to be mutually if the occurrence of either excludes the possibility of the occurrence of other event Answer: Exclusive
MCQ32: In a toss of a fair die, what is the probability that a 5 is rolled, given that the die comes up odd. Answer: 1/3
MCQ33: In a toss of a fair die, what is the probability that the die comes up odd, given that 5 is NOT rolled? Answer: $\hat{A}\frac{1}{4}$
MCQ34: If a dice is picked at random, what is the probability that it is white and the score obtained from it is even? Answer: 1/3
MCQ35: If a dice is picked at random, what is the probability that it is red with even score or a yellow with red score? Answer: 1/9
MCQ36: The diagram of the set theory is sometimes used in solving probability problems Answer: Venn
MCQ37: Given that the probability that Ayo attends a party is independent of Bolu attending the same party. If the probability that Ayo attends is 2/3 and the probability that Bolu attends is 3/5. Find the probability that both of them attend the party. Answer: ½

MCQ38: Given that the probability that Ayo attends a party is independent of Bolu attending the same party. If the probability that Ayo attends is 2/3 and the probability that Bolu attends is 3/5. Find the probability that either of them attend the party Answer: 7/5

MCQ39: Bayes theorem (otherwise known as inverse probability) was put forward by Thomas Bayes in his attempt to manipulate the formula for conditional probability in

Answer: 1761

MCQ40: 30% of the total output of a factory is produced in a workshop A while 70% is produced in workshop B. Also, 15 out of every 1000 components produced in A are defective and 8 out of every 1000 component produced in B are defective. If a component drawn at random from a mixture of the output of A and B is found to be defective, what is the probability that, it is from workshop A?

Answer: 0.41

MCQ41: If a die is tossed 1 or 2 results a marble picked from bag a which contains 2 white and 3 red marbles; if 3, 4, or 5 results a marble picked from bag B which contains 1 white and 4 red balls while if 6 results a marble is picked from bag C which contains 3 white and 2 red balls. The experiment, when carried out results in a red ball being picked. Calculate the probability that the result of 6 is obtained from the tossed die.

Answer: 0.3

MCQ42: In a toss of three coins, what is the probability of obtaining at least a tail?

Answer: 1/7

MCQ43: Five coins are tossed, what is the probability that they all show the same

faces? Answer: 2/7

MCQ44: Six coins are tossed. Find the probability of obtaining a head.

Answer: 3/7

MCQ45: In a toss of 2 dice what is the probability of obtaining a total sum of 10

Answer: 1/10

MCQ46: In a toss of 2 dice what is the probability of obtaining a sum less than 8

Answer: 2/7

MCQ47: In a toss of 2 dice what is the probability of obtaining same score

Answer: 1/3

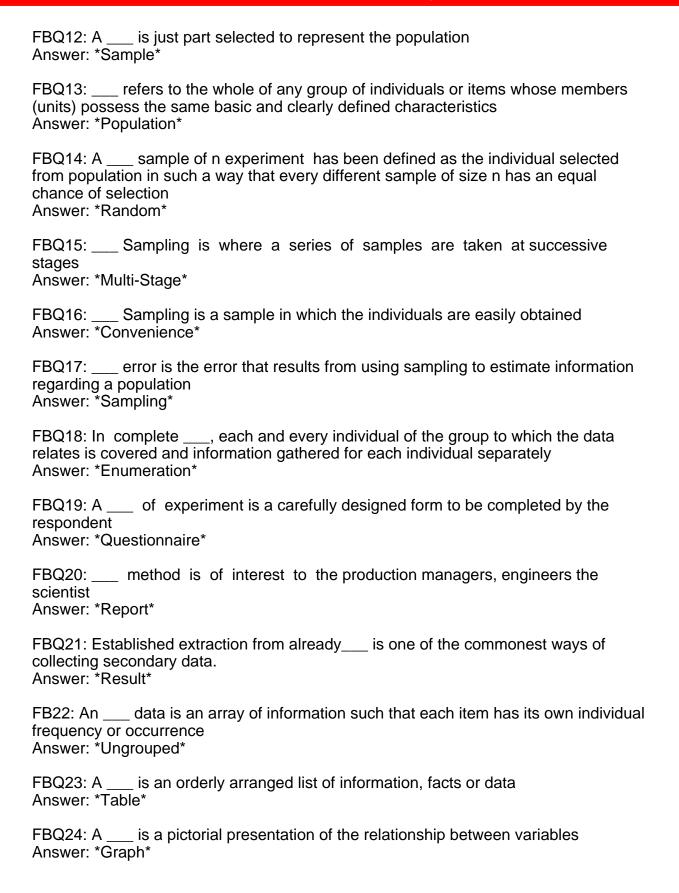
MCQ48: In a toss of 2 dice what is the probability of obtaining one of the score being

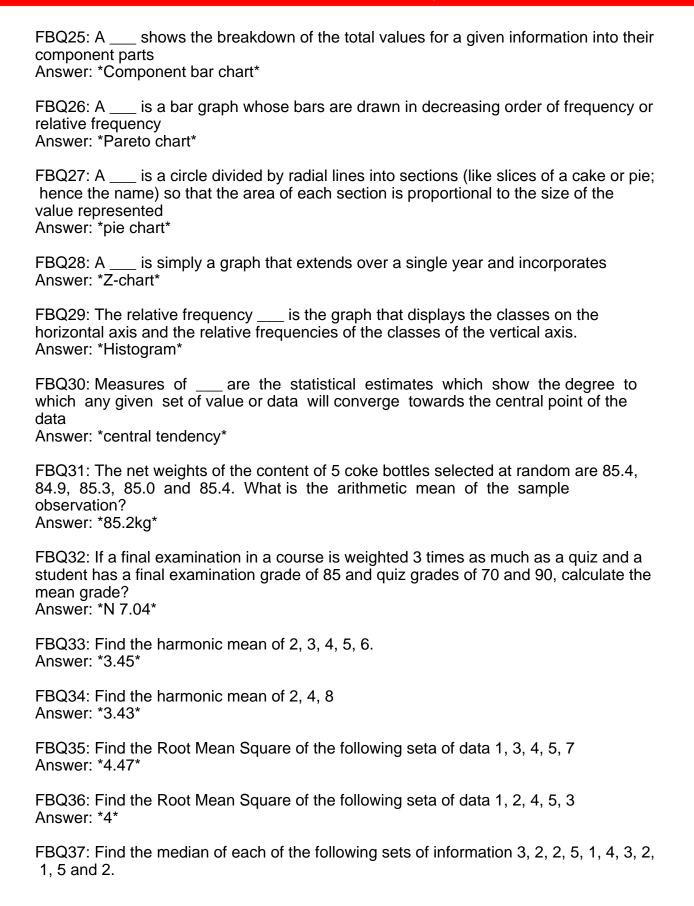
â€~3' Answer: 5/18

MCQ49: Three dice are tossed, what is the probability of obtaining the same score

throughout?

Answer: 1/20 MCQ50: If a pack of a playing card properly shuffled, what is the probability of picking a Diamond card with and odd number? Answer: 7/13 Fill in the Blank (FBQs): FBQ1: The aspect of decision-making that has to do with numerical information is known as Answer: *Statistics* FBQ2: ____ presents facts in a definite, lucid and concise form so that the facts are readily available for making valid conclusions Answer: *Statistics* FBQ3: A statistical ____ is an investigation carried out to collect statistical data which may be analysed and presented in the form that will aid effective decision making Answer: *Inquiry* FBQ4: ____ statistics, the data collected describes the situation that existed at the point in time when the census was taken Answer: *Descriptive* FBQ5: refers to a set or collection of usable information.Â Answer: *Data* FBQ6: A ____ data is a type of data collected directly from the source Answer: *Primary* FBQ7: An ____ is an arrangement of raw numerical data in ascending or descending order of magnitude Answer: *Array* FBQ8: variables allow for classification of individuals based on some attributes or characteristics. Answer: *Qualitative* FBQ9: ____ variables on the other hand are numerically valued variable Answer: *Quantitative* FBQ10: A ____ variable is a variable whose possible values can be listed, even though the list may continue indefinitely Answer: *Discrete* FBQ11: ____ variable on the other hand is a quantitative variable whose possible values form some intervals of numbers Answer: *Continuous*





Answer: *6th item* FBQ38: Find the median of each of the following sets of information 3, 6, 5, 4, 2, 4, 8, 4, 6, 8, 9 and 10 Answer: *6* FBQ39: The median of a set of grouped data can be determined geometrically in two ways: histogram and ____ frequency curve. Answer: *Cumulative* FBQ40: The determined from a histogram, is the value on the variable axis through which a vertical line, dividing the histogram into two equal areas, passes. Answer: *Median* FBQ41: The measure of dispersion estimate the extent or degree to which values in a set of data tend to spread around or about the average ____ Answer: *Value* FBQ42: The ___ is the simplest of all the measure of dispersion Answer: *Range* FBQ43: The ____ deviation refers to the arithmetic average of all deviation in a distribution from the mean Answer: *Mean* FBQ44: One advantage of mean ____ is that, it presents a good picture of the data because every item is taken into account Answer: *Deviation* FBQ45: One measure of dispersion which is very reliable is the variance of the mean __ deviation Answer: *Square* FBQ46: The actual variation or dispersion, as determined from the standard deviation or other measure of dispersion is called the dispersion Answer: *Absolute* FBQ47: The measure of refers to the statistical estimates obtained as a result of breaking data or other quantitative or qualitative information into groups, parts or divisions Answer: *Partitions* FBQ48: When data is broken down into four equal parts or division, each part or division is called a Answer: *Quartile* FBQ49: When data is broken down into ten equal parts or division, each part or division is called a Answer: *Decile*

FBQ50: In breaking a data into one-hundred equal parts, each portion or part is called a ____ Answer: *Percentile*