Grand Quiz Spring 2021

Subject Code STAT301 lecture 1 to 22

Solved by Riz Mughal

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I'm providing 100% correct quiz solution. You can visit my YouTube channel and get more information about all other subjects' quizzes and final year project (CS619).

Sialkot
Punjab, Pakistan

Rizwanqadeer848@gmail.com

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RIZ MUGHAL (SQA ENGINEER)

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STA301:Grand Quiz

Quiz Sta

Question # 1 of 30 (Start time: 09:02:59 AM, 25 June 2021)

For empirical rule approximately all observations fall within

Select the correct option

- ○ $\bar{X} \pm 2\sigma$
- ○ $\bar{X} \pm 1\sigma$
- ○ $\bar{X} \pm 0.5\sigma$
- ● $\bar{X} \pm 3\sigma$

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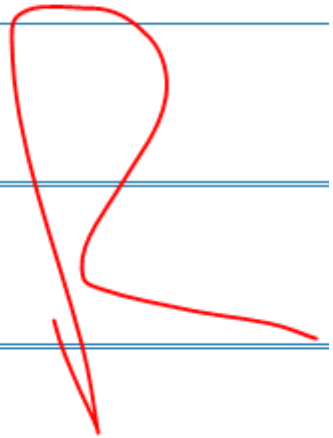
Question # 2 of 30 (Start time: 09:03:35 AM, 25 June 2021)

Symbolically, a conditional probability is:

Select the correct option

- P(AUB)
- P(A)
- P(AB)
- P(A/B)



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Question # 3 of 30 (Start time: 09:03:50 AM, 25 June 2021)

The range of the scores 29, 3, 143, 27, 99 is:

Select the correct option

- 70
- 146
- 140
- 143

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Quiz Start Time: 09:02 AM, 25 J

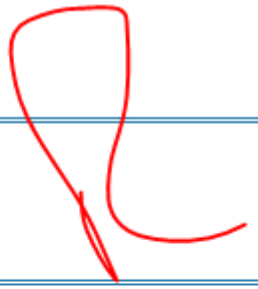
Question # 4 of 30 (Start time: 09:04:05 AM, 25 June 2021)

Tota

One card is drawn at random from a pack of 52 cards. What is the probability that the card drawn is a face card (Jack, Queen and King only)?

Select the correct option

- (●) 3/13
- ( ) 9/52
- ( ) 1/4
- ( ) 1/13



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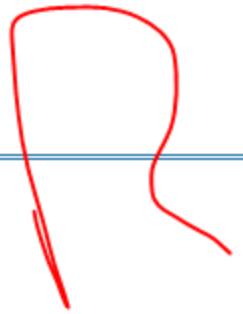
Question # 5 of 30 (Start time: 09:04:21 AM, 25 June 2021)

According to Empirical rule, approximately how much values will fall within (Mean-3S.D, Mean+3S.D)?

Select the correct option

- (●) 100%
- ( ) 75%
- ( ) 95%
- ( ) 68%



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Question # 6 of 30 (Start time: 09:04:39 AM, 25 June 2021)

An event that contains more than one sample points is called:

Select the correct option

- ○ Not mutually exclusive event
- ○ Mutually exclusive event
- ○ Hyper event
- ● Compound event

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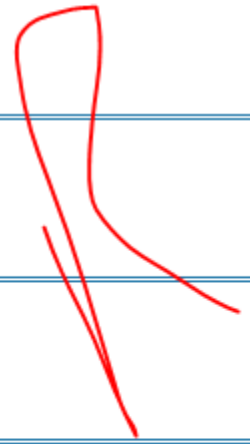
Question # 7 of 30 (Start time: 09:04:54 AM, 25 June 2021)

Which of the following pairs of A and B events are mutually exclusive?

Select the correct option

- (●) A: the numbers above 100;
  B: the numbers less than -200
- ( ) A: the numbers less than 5;
  B: all negative numbers
- ( ) A: the even numbers;
  B: the numbers greater than 10
- ( ) A: the odd numbers;
  B: the number 5



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Question # 8 of 30 (Start time: 09:05:29 AM, 25 June 2021)

In regression line Y=a+bX, X is called:

Select the correct option

- (●) Independent variable
- ( ) Explained variable
- ( ) Regressand
- ( ) Dependent variable

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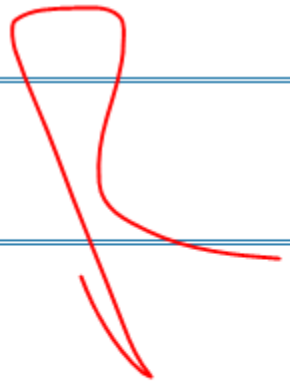
Question # 9 of 30 (Start time: 09:05:45 AM, 25 June 2021)

The graph of cumulative frequency distribution is called:

Select the correct option

- ○ Frequency polygon
- ○ Frequency curve
- ○ Historigram
- ● Ogive



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Question # 10 of 30 (Start time: 09:06:00 AM, 25 June 2021)

A graph of plotted points which shows the relationship between two sets of data is known as:

Select the correct option

- ○ Histogram diagram
- ○ Venn diagram
- ○ Polygon curve
- ● Scatter diagram

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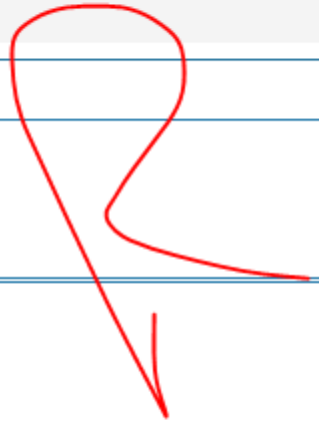
Question # 11 of 30 (Start time: 09:06:39 AM, 25 June 2021)

If a box contains two red and three yellow balloons then probability of yellow balloons will be equal to:

Select the correct option

- (●) 3/5
- ( ) 2/5
- ( ) 1/5
- ( ) 4/5



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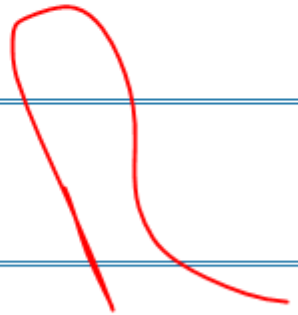
Question # 12 of 30 (Start time: 09:06:54 AM, 25 June 2021)

The postal code of Lahore is 54000. This is an example of:

Select the correct option

- ○ Quantitative data
- ○ Continuous data
- ● Qualitative data
- ○ Discrete data



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Question # 13 of 30 (Start time: 09:07:10 AM, 25 June 2021)

A scale in which objects are rank ordered according to how much of the attribute they possess.

Select the correct option

- ○ Nominal
- ○ Interval
- ○ Ratio
- ● Ordinal

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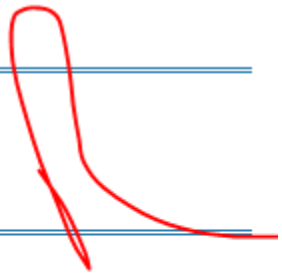
Question # 14 of 30 (Start time: 09:07:28 AM, 25 June 2021)

Direct personal investigation is _____ when the area to be covered is vast.

Select the correct option

- ○ Localized inquires
- ○ Inaccurate
- ● Time-consuming
- ○ Costly



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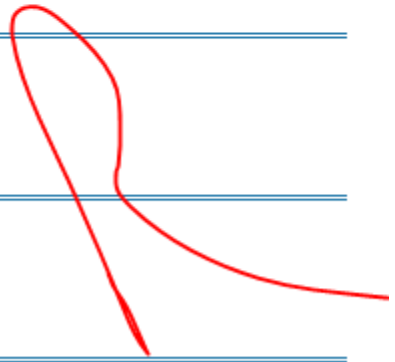
Question # 15 of 30 (Start time: 09:08:11 AM, 25 June 2021)

In absolute measures of dispersion our answer is expressed in the ..... units as our original data set.

Select the correct option

- ○ Unitless
- ○ Different
- ○ equal
- ● Same



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Question # 16 of 30 (Start time: 09:08:28 AM, 25 June 2021)

In a linear regression, Y=a+bX, the variable "X" will always:

Select the correct option

- ○ Quantitative variable
- ● A non-random variable
- ○ A random variable
- ○ Qualitative variable

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Question # 17 of 30 (Start time: 09:08:48 AM, 25 June 2021)

Using the following table, choose the correct answer;

X	0	1	2	3
f(x)	1/6	1/3	1/3	1/6

P(1<X<3) equals to:

Select the correct option

- ○ 5/6
- ○ 2/3
- ○ 4/6
- ● 1/3

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Question # 18 of 30 (Start time: 09:09:07 AM, 25 June 2021)

For the given set of observations 1,4,4,4 and 7, it can be said that the:

Select the correct option

- ○ mean is larger than either median or mode
- ○ None of the above
- ○ Mean>Median>Mode
- ● Mean=Median=Mode

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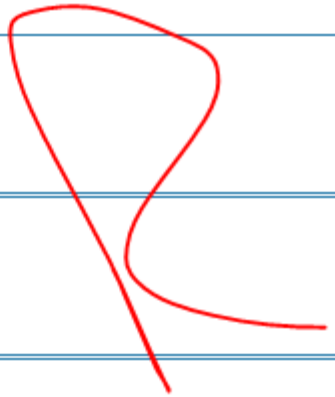
Question # 19 of 30 (Start time: 09:09:22 AM, 25 June 2021)

The precise numbers which are separated from one class to another class is called

Select the correct option

- (●) Class Boundaries
- ( ) Class Mark
- ( ) Class Limit
- ( ) Class Interval



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Question # 20 of 30 (Start time: 09:09:38 AM, 25 June 2021)

Sample statistics are also represented as:

Select the correct option

- ○ Associated Roman Alphabets
- ● Roman Letters
- ○ Upper Case Greek Letter
- ○ Lower Case Greek Letter

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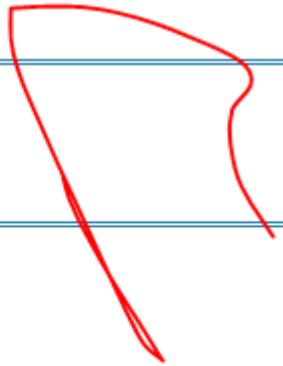
Question # 21 of 30 (Start time: 09:09:56 AM, 25 June 2021)

In how many ways,a team of 11 players can be chosen from a total of 16 players?

Select the correct option

- ○ 5400
- ○ 2426
- ● 4368
- ○ 2680



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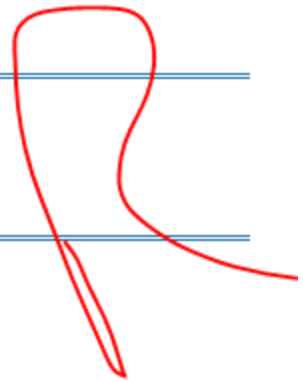
Question # 22 of 30 (Start time: 09:10:15 AM, 25 June 2021)

The identity of the observation is lost in the case of:

Select the correct option

- (●) Group data
- ( ) Un-group data
- ( ) Secondary data
- ( ) Primary data



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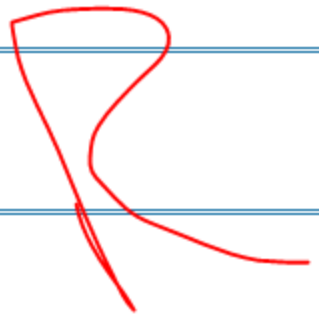
Question # 23 of 30 (Start time: 09:10:33 AM, 25 June 2021)

If a die is rolled, what is the probability of getting an even number greater than 2?

Select the correct option

- ○ 1/2
- ● 1/3
- ○ 2/3
- ○ 5/6



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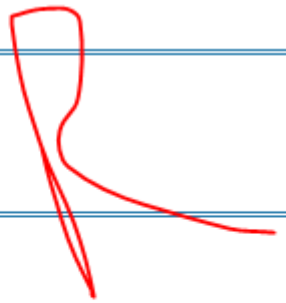
Question # 24 of 30 (Start time: 09:10:49 AM, 25 June 2021)

The stem for the following data is:
22, 45,36, 15,14, 12, 14, 14, 17, 21, 24, 24, 25, 25, 26, 26, 27, 29, 31, 34,35

Select the correct option

- (●) 1,2,3,4
- ( ) 11,12,13,14,15
- ( ) 1,2,3,4,5
- ( ) 10,20,30,40,50



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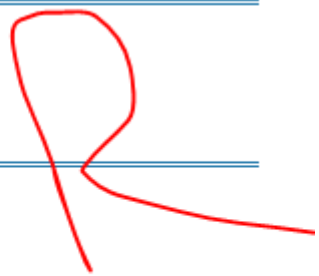
Question # 25 of 30 (Start time: 09:11:06 AM, 25 June 2021)

The _____ is the value you calculate when you want the arithmetic average:

Select the correct option

- (●) Mean
- ( ) Mode
- ( ) All above
- ( ) Median



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Question # 26 of 30 (Start time: 09:11:23 AM, 25 June 2021)

In a cumulative frequency polygon, the cumulative frequency of each class is plotted against:

Select the correct option

- ○ Lower class boundary
- ● Upper class boundary
- ○ Upper class limit
- ○ Mid-point

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Question # 27 of 30 (Start time: 09:11:40 AM, 25 June 2021)

Which of the following Measure of Averages is not based on all the values given in the data set?

Select the correct option

- (●) Mode
- ( ) Median
- ( ) Arithmetic Mean
- ( ) Harmonic Mean

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Question # 28 of 30 (Start time: 09:11:55 AM, 25 June 2021)

Empirical relation between mean, median and mode is:

Select the correct option

- (●) Mode = 3 median - 2 mean
- ( ) Median = 2 mean - 3 mode
- ( ) Mean = 3median - 2 mode
- ( ) Mode = 2median - 3 mean

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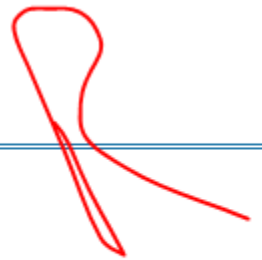
Question # 29 of 30 (Start time: 09:12:10 AM, 25 June 2021)

If a coin is tossed three times, the likelihood of obtaining three heads in a row is:

Select the correct option

- 0.875
- 0.125
- 0.000
- 0.500



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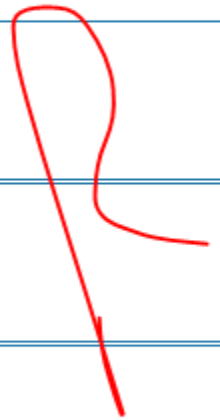
Quiz Start Time: 0

Question # 30 of 30 (Start time: 09:12:30 AM, 25 June 2021)

For a symmetrical data set mean value is 150 and standard deviation 25. 99.73 %(approximately all) values will lie between

Select the correct option

- ○ (125,175)
- ○ (100,200)
- ● (75,225)
- ○ (125,180)

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