

RIZ MUGHAL

QUIZ MASTER

Grand Quiz(STA301)

100% correct solution.

For more information you can visit my channel and for any type of help related to CS619 you can contact me.



YOUTUBE CHANNEL:

<https://www.youtube.com/channel/UCINsFwDiB62SValCcPDZbRQ/playlists>

FACEBOOK GROUP:

<https://www.facebook.com/groups/923887914750307>

STA301:Grand Quiz

Question # 1 of 30 (Start time: 09:21:06 AM, 27 December 2020)

In a week the prices of a bag of rice were 350,280,340,290,320,310,300.
The mid range is

Select the correct option

<input type="radio"/>	320
<input checked="" type="radio"/>	315
<input type="radio"/>	300
<input type="radio"/>	420

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Question # 2 of 30 (Start time: 09:21:22 AM, 27 December 2020)

Data used by an agency which is originally collected by them is called:

Select the correct option

<input checked="" type="radio"/>	Primary data
<input type="radio"/>	Ungroup data
<input type="radio"/>	Secondary data
<input type="radio"/>	Grouped data

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Question # 3 of 30 (Start time: 09:21:40 AM, 27 December 2020)

Total Marks: 1

In a drawer there are 5 black socks and 3 green socks. Two socks are picked randomly one after the other without replacement. What is the possibility that both the socks are black?

Select the correct option

- | | | |
|----------------------------------|------|----|
| <input checked="" type="radio"/> | 5/14 | // |
| <input type="radio"/> | 5/8 | // |
| <input type="radio"/> | 3/8 | // |
| <input type="radio"/> | 5/16 | // |
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Question # 4 of 30 (Start time: 09:21:59 AM, 27 December 2020)

In a multiplication theorem $P(A \text{ and } B)$ equals (when events are not independent):

Select the correct option

- | | |
|----------------------------------|-----------------------------|
| <input type="radio"/> | $P(A) P(B)$ |
| <input type="radio"/> | $P(A) + P(B)$ |
| <input checked="" type="radio"/> | $P(A) * P(B A)$ |
| <input type="radio"/> | $P(A) + P(B) - P(A \cup B)$ |


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Question # 5 of 30 (Start time: 09:22:14 AM, 27 December 2020)

The graph of cumulative frequency distribution is called:

Select the correct option

- | | |
|----------------------------------|-------------------|
| <input type="radio"/> | Frequency polygon |
| <input checked="" type="radio"/> | Ogive |
| <input type="radio"/> | Frequency curve |
| <input type="radio"/> | Historigram |
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Question # 6 of 30 (Start time: 09:22:28 AM, 27 December 2020)

If $P(A) = 0.45$, $P(B) = 0.35$ and $P(B \text{ and } A) = 0.25$, then $P(B | A)$ is:

Select the correct option

- | | |
|----------------------------------|-------|
| <input checked="" type="radio"/> | 0.555 |
| <input type="radio"/> | 0.801 |
| <input type="radio"/> | 0.751 |
| <input type="radio"/> | 0.750 |

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Question # 7 of 30 (Start time: 09:22:45 AM, 27 December 2020)

In a Box and Whisker plot, if the median line is closer to the right of the box then distribution will be:

Select the correct option

<input checked="" type="radio"/>	Left skewed
<input type="radio"/>	Right skewed
<input type="radio"/>	symmetrical
<input type="radio"/>	All of these

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Question # 8 of 30 (Start time: 09:23:05 AM, 27 December 2020)

In case of a frequency distribution, the third quartile is given by the formula:

Select the correct option

- | | |
|----------------------------------|------------------------------|
| <input checked="" type="radio"/> | $l + \frac{h}{f} (3n/4 - c)$ |
| <input type="radio"/> | $l + \frac{h}{f} (n/2 - 3c)$ |
| <input type="radio"/> | $l + \frac{f}{h} (3n/4 - c)$ |
| <input type="radio"/> | $l + \frac{3f}{h} (n/4 - c)$ |

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Question # 9 of 30 (Start time: 09:23:20 AM, 27 December 202

Let $A = \{1, 2, 3, 4\}$ and $B = \{3, 4, 5, 6\}$ Then $A \cap B$:

Select the correct option

- | | |
|----------------------------------|--------|
| <input checked="" type="radio"/> | {3, 4} |
| <input type="radio"/> | {1, 4} |
| <input type="radio"/> | {3, 5} |
| <input type="radio"/> | {3, 6} |

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Question # 10 of 30 (Start time: 09:23:34 AM, 27 December 2020)

For two mutually exclusive events A and B, $P(A) = 0.1$ and $P(B) = 0.4$, then $P(A \cup B)$ is:

Select the correct option

- | | |
|----------------------------------|-----|
| <input type="radio"/> | 0.1 |
| <input type="radio"/> | 0.3 |
| <input type="radio"/> | 0.4 |
| <input checked="" type="radio"/> | 0.5 |

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Question # 11 of 30 (Start time: 09:23:51 AM, 27 December 202

The geometric mean of 4 and 16 is

Select the correct option

- | | |
|----------------------------------|---------------|
| <input checked="" type="radio"/> | 8 |
| <input type="radio"/> | 12 |
| <input type="radio"/> | 16 |
| <input type="radio"/> | None of these |
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Question # 12 of 30 (Start time: 09:24:13 AM, 27 December 2020)

A sector diagram is also called:

Select the correct option

- | | |
|----------------------------------|-------------|
| <input type="radio"/> | Bar diagram |
| <input type="radio"/> | Histogram |
| <input type="radio"/> | Historigram |
| <input checked="" type="radio"/> | Pie diagram |

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Question # 13 of 30 (Start time: 09:24:30 AM, 27 December 2020)

What is the mode in the word MATHEMATICS:

Select the correct option

- | | |
|----------------------------------|---------|
| <input type="radio"/> | No mode |
| <input type="radio"/> | M |
| <input type="radio"/> | A |
| <input checked="" type="radio"/> | T, A, M |
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Question # 14 of 30 (Start time: 09:24:45 AM, 27 December 2020)

The mode value from raw data can be obtained by the help of:

Select the correct option

<input type="radio"/>	Dot plot
<input checked="" type="radio"/>	Stem and leaf
<input type="radio"/>	Bar chart
<input type="radio"/>	Pie chart

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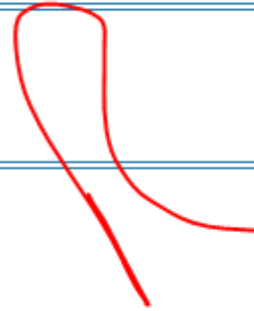
Question # 15 of 30 (Start time: 09:25:00 AM, 27 December 2020)

$0!$ is equal to:

Select the correct option

<input type="radio"/>	0
<input checked="" type="radio"/>	1
<input type="radio"/>	0 and 1
<input type="radio"/>	none

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Question # 16 of 30 (Start time: 09:25:15 AM, 27 December 2020)

From a pack of 52 cards, two cards are drawn together at random. What is the probability of both the cards being kings?

Select the correct option

- | | |
|----------------------------------|-------|
| <input type="radio"/> | 1/15 |
| <input type="radio"/> | 25/57 |
| <input type="radio"/> | 1/122 |
| <input checked="" type="radio"/> | 1/221 |

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Question # 17 of 30 (Start time: 09:25:31 AM, 27 December 2020)

Frequency distribution is considered as negatively skewed if all values of distribution moves to

Select the correct option

<input checked="" type="radio"/>	lower tail
<input type="radio"/>	median tail
<input type="radio"/>	variance tail
<input type="radio"/>	upper tail

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Question # 18 of 30 (Start time: 09:25:45 AM, 27 December 2020)

If $Q1=62$ and $Q3=87$, then the mid-quartile range will be:

Select the correct option

- | | |
|----------------------------------|------|
| <input type="radio"/> | 82 |
| <input type="radio"/> | 70 |
| <input checked="" type="radio"/> | 74.5 |
| <input type="radio"/> | 64.5 |

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Question # 19 of 30 (Start time: 09:26:00 AM, 27 December 2020)

Sometimes mean deviation can also be calculated around:

Select the correct option

Quartiles

Deciles

Median

None of the above

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Question # 20 of 30 (Start time: 09:26:15 AM, 27 December 2020)

The number of classes in a frequency distribution generally should be:

Select the correct option

- | | |
|----------------------------------|-------------------------|
| <input type="radio"/> | Less than five |
| <input type="radio"/> | More than five |
| <input checked="" type="radio"/> | Between five and twenty |
| <input type="radio"/> | Between ten and twenty |

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Question # 21 of 30 (Start time: 09:26:36 AM, 27 December 2020)

Which one of the following will be used to draw an OGIVE?

Select the correct option

- | | |
|----------------------------------|-------------------------------------|
| <input checked="" type="radio"/> | A cumulative frequency distribution |
| <input type="radio"/> | A joint frequency distribution |
| <input type="radio"/> | A frequency distribution |
| <input type="radio"/> | A relative frequency distribution |

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Question # 22 of 30 (Start time: 09:26:51 AM, 27 December 2020)

In regression analysis, the variable that is being predicted is the

Select the correct option

<input checked="" type="radio"/>	Dependent variable
<input type="radio"/>	Independent variable
<input type="radio"/>	Intervening variable
<input type="radio"/>	None of these


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Question # 23 of 30 (Start time: 09:27:06 AM, 27 December 2020)

Data arranged in ascending or descending order of magnitude is called:

Select the correct option

- | | |
|----------------------------------|---------------------------------|
| <input type="radio"/> | Ungrouped data |
| <input type="radio"/> | Grouped data |
| <input type="radio"/> | Discrete frequency distribution |
| <input checked="" type="radio"/> | Arrayed data |
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Question # 24 of 30 (Start time: 09:27:21 AM, 27 December 2020)

Relationship among the averages

Select the correct option

- | | |
|----------------------------------|----------------------|
| <input type="radio"/> | $HM \geq GM \geq AM$ |
| <input checked="" type="radio"/> | $AM \geq GM \geq HM$ |
| <input type="radio"/> | $GM \leq HM \leq AM$ |
| <input type="radio"/> | $AM \geq HM \leq GM$ |

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Question # 25 of 30 (Start time: 09:27:35 AM, 27 December 2020)

In a simple bar chart:

Select the correct option

- | | |
|----------------------------------|--------------------------------------|
| <input type="radio"/> | Width of bar is meaningful |
| <input checked="" type="radio"/> | Height of bar is meaningful |
| <input type="radio"/> | Height of bar is not meaningful |
| <input type="radio"/> | Height and width both are meaningful |

Question # 26 of 30 (Start time: 09:27:50 AM, 27 December 2020)

When our data set contains a few very high or a few very low values we use as a representative average.

Select the correct option

<input type="radio"/>	Mode
<input type="radio"/>	Mean
<input checked="" type="radio"/>	Median
<input type="radio"/>	All above

Question # 27 of 30 (Start time: 09:28:04 AM, 27 December 2020)

A bag contains 10 white, 2 orange and 3 black balls. What is the probability of black balls?

Select the correct option

- | | |
|----------------------------------|-------|
| <input type="radio"/> | 2/15 |
| <input checked="" type="radio"/> | 3/15 |
| <input type="radio"/> | 10/15 |
| <input type="radio"/> | 5/15 |

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Question # 28 of 30 (Start time: 09:28:17 AM, 27 December 2020)

In statistics, conducting a survey means

Select the correct option

- | | |
|-------------------------------------|--------------------------------------|
| <input checked="" type="checkbox"/> | Collecting information from elements |
| <input type="checkbox"/> | Making mathematical calculations |
| <input type="checkbox"/> | Drawing graphs and pictures |
| <input type="checkbox"/> | None of the above |

Question # 29 of 30 (Start time: 09:28:31 AM, 27 December 2020)

Range i.e. (maximum value - minimum value) for a symmetrical distribution is approximately equal to

Select the correct option

[Reload](#)

- | | |
|----------------------------------|-----------|
| <input type="radio"/> | |
| <input type="radio"/> | 4σ |
| <input checked="" type="radio"/> | 6σ |
| <input type="radio"/> | σ |

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Question # 30 of 30 (Start time: 09:28:49 AM, 27 December 2020)

T

For a particular data set the Pearson's coefficient of skewness is less than zero. What will be the shape of distribution?

Select the correct option

- | | |
|----------------------------------|-------------------|
| <input type="radio"/> | Positively Skewed |
| <input type="radio"/> | Symmetrical |
| <input checked="" type="radio"/> | Negatively Skewed |
| <input type="radio"/> | J-Shaped |

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