Assignment 01

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2018-08-15, 23:59 IST.

1) Find the variance and standard deviation for the following data: 57, 64, 40, 35, 67, 46, 62, 43.

- 149.0, 12.2
- 150, 12
- 148.9, 11.9
- 149.9, 12.6

No, the answer is incorrect.
Score: 0
Accepted Answers:
- 149.0, 12.2

2) Calculate variance of the following data:

<table>
<thead>
<tr>
<th>Class Interval</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-5</td>
<td>3</td>
</tr>
<tr>
<td>6-10</td>
<td>6</td>
</tr>
<tr>
<td>11-15</td>
<td>4</td>
</tr>
<tr>
<td>16-20</td>
<td>7</td>
</tr>
</tbody>
</table>

- 29.658
- 29.225
- 28.658
- 28.225

No, the answer is incorrect.
Score: 0
Accepted Answers:
- 29.658
4) We have five numbers: (65, 62, 55, 53, 69). What would be the sum of deviations of individual data points from their mean?

- 16
- 88.2
- 0
- None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
Mean, Median and Mode

5) Which of the following measures of central tendency will always change if a single value in the data changes?

- Mean
- Median
- Mode
- All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
Mean

6) Standard deviation of a dataset can be negative. (True/False)

- True
- False

No, the answer is incorrect.
Score: 0
Accepted Answers:
False

7) Find the median for the following distribution of some scores in a class:

<table>
<thead>
<tr>
<th>Marks in a subject</th>
<th>Number of students</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-10</td>
<td>22</td>
</tr>
<tr>
<td>10-20</td>
<td>38</td>
</tr>
<tr>
<td>20-30</td>
<td>46</td>
</tr>
<tr>
<td>30-40</td>
<td>35</td>
</tr>
<tr>
<td>40-50</td>
<td>20</td>
</tr>
</tbody>
</table>

- 24.46
- 25.46
- 23.36
- 22.26

No, the answer is incorrect.
8) The following table shows the number of Honda City – SV sold from a given show-room on five consecutive days of a week.

<table>
<thead>
<tr>
<th>DAY:</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>CARS SOLD:</td>
<td>11</td>
<td>12</td>
<td>?</td>
<td>3</td>
<td>7</td>
</tr>
</tbody>
</table>

If the mean sales based on the given data set is 8 cars, then what is the number of cars sold on the third day?

- 6
- 7
- 8
- 9

No, the answer is incorrect.

Score: 0

Accepted Answers: 7

9) A card is selected from a deck of 52 cards. Find the probability that it is a RED KING OR a BLACK QUEEN?

- 2/13
- 1/13
- 3/13
- 4/15

No, the answer is incorrect.

Score: 0

Accepted Answers: 1/13

10) When a single die is rolled what is the probability of getting an even number (2,4,6) or a number less than 4?

- 5/6
- 2/3
- 1/2
- 1/6

No, the answer is incorrect.

Score: 0

Accepted Answers: 5/6

11) Three unbiased coins are tossed. What is the probability of getting at most two tails?

- 1/2
- 3/4
- 7/8
- 5/8
12. Classify each of the following as N, nominal; O, ordinal; or I/R, interval/ratio data: zip code of your local address; amount of money in your wallet; your rank in this subject; mileage of your motorbike.

- Option A: O; I/R; N; I/R
- Option B: N; I/R; O; I/R
- Option C: O; I/R; I/R; N
- None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
N; I/R; O; I/R

13. Counting frequencies can be performed on which of the following: Nominal, Ordinal, Interval, or Ratio scale.

- Option A: Nominal, Ordinal, Interval, and Ratio
- Option B: Ordinal, Interval, and Ratio
- Option C: Interval and Ratio
- Option D: Ratio

No, the answer is incorrect.
Score: 0
Accepted Answers:
Ordinal, Interval, and Ratio

14. Which of the following statement is TRUE?

- Option A: A parameter is some value for the population and a statistic is some value for a sample
- Option B: A parameter is used to estimate a statistic
- Option C: A parameter and a statistic both involve uncertainty in estimation
- Option D: All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
A parameter is some value for the population and a statistic is some value for a sample

15. The summary and presentation of data in tabular form with several non-overlapping classes is referred as:

- Option A: Histogram
- Option B: Bar distribution
- Option C: Frequency distribution
- Option D: Chronological distribution

No, the answer is incorrect.
Score: 0
Accepted Answers:
Frequency distribution

Score: 0