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| **Quiz#1-B** | | | |
| **Topic:** | Module 1: Descriptive Statistics : Summary Statistics | **Week No.** |  |
| **Course Code:** | ITEP 203 | **Term:** | 1st Semester |
| **Course Title:** | Quantitative Method including Modeling and Simulation | **Academic Year:** | 2021-2022 |
| **Student Name** |  | **Section** |  |
| **Due date** |  | **Points** | **20** |

This learning activity will help attain the intended learning outcomes of this module and will solidify the objectives of the module.

**Measures of Center (Mean)**

1. Which of the below are measures of center (Underline all that apply)?
2. Mean
3. Standard Deviation
4. Variance
5. Median
6. Inter-quartile Range
7. Mode
8. Range
9. Maximum
10. Minimum
11. If we have the data: 5, 8, 15, 7, 10, 22, 3, 1, 15. What is the mean? (Encircle the Answer)
12. 7
13. 9.56
14. 15
15. 8
16. 8.5

**Measures of Center (Median)**

1. If we have the data: 5, 8, 15, 7, 10, 22, 3, 1, 15. What is the median?
2. 7
3. 9.56
4. 15
5. 8
6. 7.5

**Median - average**

1. If we have the data: 5, 8, 15, 7, 10, 22, 3, 1, 15, 2. What is the median?
2. 7
3. 9.56
4. 15
5. 8
6. 7.5

**Measures of center**

1. We want to summarize the number of dogs our friends have into a single number. We will use the measures of center for this problem. Ashley has 1 dog, Steve has 1 dog, Jeff has 2 dogs, Kylie has 3 dogs, and Lisa has 8 dogs. There is no best measure of center so we need to try all three to see what makes sense. What is the mean, median, and mode for the number of dogs our friends have?
2. Mean: 3 Median: 2 Mode: 1
3. Mean: 2 Median: 2 Mode: 8
4. Mean: 3 Median: 3 Mode: 1
5. Mean: 2 Median: 1 Mode: 8

**When? Where? Why?**

1. Encircle all the letter below that are true with regards to our measures of center.
2. The mode is the middle number in the dataset when the numbers are rank ordered.
3. The median is the middle number in the dataset when the numbers are rank ordered.
4. The mean is always the best measure of center for any dataset.
5. The mean is always less than the median.
6. The median is always the best measure of center for any dataset.
7. The mode is always the best measure of center for any dataset.

**Mode**

1. If we have the data: 5, 8, 15, 7, 10, 22, 3, 1, 15. What is the mode?
2. 7
3. 9.56
4. 9
5. 15
6. 5

**Mean, Median, Mode**

1. **QUIZ QUESTION::** For the dataset below match the correct measure to the value: 8, 12, 32, 10, 3, 4, 4, 4, 4, 5, 12, 20

**ANSWER CHOICES:**  a. Mean, b. Median, c. Mode, d. None of the Above

|  |  |
| --- | --- |
| **Measure** | **Value** |
| 6.5 |  |
| 8 |  |
| 4 |  |
| 9.83 |  |

**Modes?**

1. If we have the data: 5, 8, 15, 7, 10, 22, 3, 1, 15, 10. Underline all statements that are true.
2. The mode is 15.
3. The mean is 15.
4. The mode is 10.
5. None of the above are true.

**Reminders:**

1. AVOID PLAGIARISM, include the source/reference of the performance task output.
2. Save your quiz as **M2Q2B**-[Section]-[Surname] e.g. **M2Q2B-2F-BERNARDINO**