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Hope it works out great!



♥ Marie



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Mean, Median, Mode, and Range Notes

- **Mean:**

- The _____ of a group of numbers is called the mean. Do not round the number.

- Mean =

- What is the mean of the data below?

- 2, 4, 6, 8, 10, 12

Workspace:

- **Advantages:**

- Most _____ measure in fields such as _____, engineering, and computer science.

- It is unique - there is only one answer.

- Useful when comparing sets of data.

- **Disadvantages:**

- Affected by _____ values.

- **Median:**

- The _____ value, or the _____ of the _____ two values, when the data is arranged in numerical order. Think of a "median" being in the middle of a highway.

- What is the median for the set of #'s below? Circle it.

- 1, 2, 3, 4, 5

- How do I find the median for an even set of #'s?

- 5, 5, 10, 10, 10, 15, 15, 15, 20, 25

Workspace:

- **Advantages:**

- Extreme values do not affect the median as strongly as they do the mean.

- Useful when comparing sets of data.

- It is unique - there is only one answer.

- **Disadvantages:**

- Not as popular as mean.

- **Mode:**

- The _____

- It is possible to have _____ mode, and it is possible to have _____ mode. If there is no mode-write "no mode", do not write zero (0).

- Can you find the mode in this number set?

- 6, 7, 8, 10, 12, 14, 11, 15, 14, 20

Answer:

- What is the mode in this number series?

- 65, 70, 75, 76, 77, 80, 82, 84, 86, 89, 90, 92, 93, 95, 97

Answer:

- Advantages:

- Extreme values do not affect the mode.

- Disadvantages:

- Not as popular as mean and median.
- Not necessarily unique - may be more than one answer.
- When no values repeat in the data set, the mode is every value and is useless.
- When there is more than one mode, it is difficult to interpret and/or compare.

- Range:

- The range is the _____
Greatest value - Least value = Range

- What is the range in this number series?

- 9, 2, 1, 6, 7

Answer:

- Can you find the mean, median, mode, and range for the following list of values: 13, 18, 13, 14, 13, 16, 14, 21, 13

- Mean= _____
- Median= _____
- Mode= _____
- Range= _____

- Can you find the mean, median, mode, and range for the following list of values: 1, 2, 4, 7

- Mean= _____
- Median= _____
- Mode= _____
- Range= _____

Workspace:

Mean, Median, Mode, and Range Notes

- Mean:

- The average of a group of numbers is called the mean. Do not round the number.
- Mean = Sum of data / # of data

- What is the mean of the data below?

- 2, 4, 6, 8, 10, 12

- Advantages:

- Most popular measure in fields such as business, engineering, and computer science.
- It is unique - there is only one answer.
- Useful when comparing sets of data.

- Disadvantages:

- Affected by extreme values.

- Median:

- The middle value, or the mean of the middle two values, when the data is arranged in numerical order. Think of a "median" being in the middle of a highway.

- What is the median for the set of #'s below?

- 1, 2, 3, 4, 5

- How do I find the median for an even set of #'s?

- 5, 5, 10, 10, 10, 15, 15, 15, 20, 25

- Advantages:

- Extreme values do not affect the median as strongly as they do the mean.
- Useful when comparing sets of data.
- It is unique - there is only one answer.

- Disadvantages:

- Not as popular as mean.

- Mode:

- The number that appears the most.
- It is possible to have more than one mode, and it is possible to have no mode. If there is no mode-write "no mode", do not write zero (0) .

- Can you find the mode in this number set?

- 6, 7, 8, 10, 12, 14, 11, 15, 14, 20

- What is the mode in this number series?
 - 65, 70, 75, 76, 77, 80, 82, 84, 86, 89, 90, 92, 93, 95, 97
- Advantages:
 - Extreme values do not affect the mode.
- Disadvantages:
 - Not as popular as mean and median.
 - Not necessarily unique - may be more than one answer
 - When no values repeat in the data set, the mode is every value and is useless.
 - When there is more than one mode, it is difficult to interpret and/or compare.
- Range:
 - The range is the difference between the least number and the greatest number.
Greatest value - Least value = Range
- What is the range in this number series?
 - 9, 2, 1, 6, 7
- Can you find the mean, median, mode, and range for the following list of values:
 - 13, 18, 13, 14, 13, 16, 14, 21, 13
- Can you find the mean, median, mode, and range for the following list of values:
 - 1, 2, 4, 7