**Measures of Central Tendency and Dispersion**

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| --- | --- | --- | --- | --- | --- |
| **Measure of Central Tendency** | **Appropriate to use when…** | **Strengths + limitations** | **Measure of Dispersion** | **Appropriate to use when…** | **Strengths + limitations** |
| Definition:Calculated by: |  | Strengths:Limitations: | Definition: |  | Strengths:Limitations: |
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**Measures of Central Tendency and Measures of Dispersion**

1. What is the mean, median and mode of the following sets of data?

Set 1: 19, 24, 26, 29, 37, 44, 49, 52, 58, 60, 63, 63, 70, 71, 75, 80, 82

Set 2: 4, 7, 7, 8, 9, 9, 12, 15, 24

1. Calculate the range and standard deviation for the first set of data.
2. What percentage of people fall below a score of 44 in the first set of data?

**To which measure of central tendency do the following statements apply:**

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| It uses all scores in the data set. |  | It is not always representative of the score obtained. |  |
| It gives you the exact average of a data set |  | It ignores most of the score obtained |  |
| It can be affected by extreme scores |  | It is unaffected by extreme scores |  |
| It may not be a whole number (e.g. 7.5) |  | It is quite easy to work out |  |
| It is unaffected by extreme scores |  | It is not useful for small sets of data |  |
| It is easier to word out than the mean |  | There may be more than one answer  |  |