***Unit 4 Samples and Variation***

***Math Toolkit Entries***

|  |  |
| --- | --- |
|  | * What does the standard deviation measure and how is it calculated?
* Compare standard deviation, IQR and range. How are they similar and different?
* Which measures of variation are resistant to outliers and why?
* What is the ***variance*** of a set of data and how is the variance related to standard deviation?
 |
|  |  |
|  | * Describe the normal distribution.
* Illustrate with a sketch indicating the percentages of the data within each standard deviation.
* How are all normal distributions the same and how are they different?
 |

***Unit 4 Samples and Variation***

***Math Toolkit Entries***

|  |  |
| --- | --- |
|  | * What does the standard deviation measure and how is it calculated?
* Compare standard deviation, IQR and range. How are they similar and different?
* Which measures of variation are resistant to outliers and why?
* What is the ***variance*** of a set of data and how is the variance related to standard deviation?
 |
|  |  |
|  | * Describe the normal distribution.
* Illustrate with a sketch indicating the percentages of the data within each standard deviation.
* How are all normal distributions the same and how are they different?
 |