3.10 Statistical Inference

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| **Teaching Points** | **Content** | **Resources** | **Homework** |
| 1  Problem |  Research   Setting your comparison question   Prediction | Power point  Pams maths  NuLake pg 5 | Hand in problem for Elite Athletes |
| 2  Plan |  | NuLake pg 4 |  |
| 3  Data |  | NuLake pg 4 | Hand in plan and data section for Elite Athletes |
| 4  Analysis |  Box plots   Dot plots   Sample Statistics | Power point  Pamsmaths  NuLake pg 6, 8  Sigma workbook 6.01, 6.04 | From pamsmaths complete the work for the links on  Centrality, spread, symmetry, tail length, outliers and histograms |
| 5 |  Analysis of your sample | From pams maths  What not to say  USSCSI  Sigma ex 6.01 , 6.04, 8.01, 8.02 | Sigma workbook 6.02 |
| 6 |  Sampling Variability | Power point  Pamsmaths  NuLake pg 9-16 |  |
| 7 |  Boot strapping | Power point  Pams maths  NuLake 53-63  Sigma 7.01, 8.03 |  |
| 8 |  Confidence interval | Power point  Pams maths  NuLake pg 21-52  Sigma text & workbook 7.03, 7.03, 7.04, 8.04 | Hand in analysis for Elite Athletes |
| 9  Conclusion |  | Power point  Pams maths  Sigma text 8.05 | Hand in conclusion for Elite Athletes |
|  | Practice Assessment  New Zealand Crash Statistics | NuLake pg 64  Pams maths | Hand in |
|  | Assessment |  | 2 weeks to complete  at home |