3.10 Statistical Inference

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| **Teaching Points** | **Content** | **Resources** | **Homework** |
| 1Problem |  Research Setting your comparison question Prediction | Power pointPams mathsNuLake pg 5 | Hand in problem for Elite Athletes  |
| 2Plan |   | NuLake pg 4 |   |
| 3Data |   | NuLake pg 4 | Hand in plan and data section for Elite Athletes |
| 4Analysis |  Box plots Dot plots Sample Statistics | Power pointPamsmathsNuLake pg 6, 8Sigma 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 mathsWhat not to sayUSSCSISigma ex 6.01 , 6.04, 8.01, 8.02 | Sigma workbook 6.02 |
| 6 |  Sampling Variability | Power pointPamsmathsNuLake pg 9-16 |   |
| 7 |  Boot strapping | Power pointPams mathsNuLake 53-63Sigma 7.01, 8.03 |   |
| 8 |  Confidence interval | Power pointPams mathsNuLake pg 21-52Sigma text & workbook 7.03, 7.03, 7.04, 8.04 | Hand in analysis for Elite Athletes  |
| 9Conclusion |    | Power pointPams mathsSigma text 8.05 | Hand in conclusion for Elite Athletes |
|   | Practice Assessment New Zealand Crash Statistics | NuLake pg 64Pams maths | Hand in  |
|   | Assessment |   | 2 weeks to completeat home |