Achievement Standard 91264 (Mathematics and Statistics 2.9)

Use statistical methods to make an inference

Practice assessment

Use the data from the *CensusAtSchool* website www.censusatschool.org.nz to pose an appropriate question which compares the mean or median of a variable over two groups in the population. Carry out an investigation using the statistical enquiry cycle, in order to answer your question.

You will need to:

- select random samples from the two populations, explaining your techniques
- analyse your data using appropriate displays and measures
- discuss sample distributions
- discuss sampling variability, including the variability of estimates
- make an inference
- communicate your findings in a conclusion.

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