

## Achievement Standard

<b>Subject Reference</b>	Mathematics and Statistics 2.11		
<b>Title</b>	Evaluate a statistically based report		
<b>Level</b>	2	<b>Credits</b>	2
		<b>Assessment</b>	Internal
<b>Subfield</b>	Statistics and Probability		
<b>Domain</b>	Statistics		
<b>Status</b>	Registered	<b>Status date</b>	17 November 2011
<b>Planned review date</b>	31 December 2019	<b>Date version published</b>	5 February 2015

This achievement standard involves evaluating a statistically based report.

### Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> <li>Evaluate a statistically based report.</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate a statistically based report, with justification.</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate a statistically based report, with statistical insight.</li> </ul>

### Explanatory Notes

1 This achievement standard is derived from Level 7 of *The New Zealand Curriculum*, Learning Media, Ministry of Education, 2007; and is related to the achievement objective

- evaluate statistically based reports:
  - identifying sampling and possible non-sampling errors in surveys, including polls

in the Statistics strand of the Mathematics and Statistics Learning Area. It is also related to the material in the *Teaching and Learning Guide for Mathematics and Statistics*, Ministry of Education, at <http://seniorsecondary.tki.org.nz>.

This standard is also derived from *Te Marautanga o Aotearoa*. For details of Te Marautanga o Aotearoa achievement objectives to which this standard relates, see the [Papa Whakaako](#) for the relevant learning area.

2 *Evaluate a statistically based report* involves identifying and commenting on features and findings of a survey relevant to the report's purpose.

*Evaluate a statistically based report, with justification* involves supporting the comments on the features and findings with reference to statistical evidence and the statistical processes used to carry out the survey.

*Evaluate a statistically based report, with statistical insight* involves integrating statistical and contextual information to assess the quality of the report in terms of its purpose.

- 3 Features of a survey include:
    - population measures and variables
    - sampling methods
    - survey methods
    - sampling and possible non-sampling errors
    - sample size.
  - 4 Conditions of Assessment related to this achievement standard can be found at <http://ncea.tki.org.nz/Resources-for-Internally-Assessed-Achievement-Standards>.
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### Quality Assurance

- 1 Providers and Industry Training Organisations must have been granted consent to assess by NZQA before they can register credits from assessment against achievement standards.
- 2 Organisations with consent to assess and Industry Training Organisations assessing against achievement standards must engage with the moderation system that applies to those achievement standards.

Consent and Moderation Requirements (CMR) reference

0233