

Achievement Standard

Subject Reference Mathematics and Statistics 1.3

Title Interpret and apply mathematical and statistical information in context

Level 1 **Credits** 5 **Assessment** External

Subfield Mathematics

Domain Mathematical Studies

Status Approved **Status date** December 2023

Planned review date December 2028 **Date version published** December 2023

Purpose Statement

Students are able to interpret and apply mathematical and statistical information in context.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> Interpret and apply mathematical and statistical information in context 	<ul style="list-style-type: none"> Interpret and apply mathematical and statistical information in context using relational thinking 	<ul style="list-style-type: none"> Interpret and apply mathematical and statistical information in context using extended abstract thinking

Explanatory Notes

- 1 *Interpret and apply mathematical and statistical information in context* involves:
- making an informed judgement or decision using information extracted from mathematical and statistical media.

Interpret and apply mathematical and statistical information in context using relational thinking involves:

- explaining variation in extracted information
- explaining how an informed judgement or decision was reached using information extracted from mathematical and statistical media.

Interpret and apply mathematical and statistical information in context using extended abstract thinking involves:

- evaluating the effects of variation in extracted information, considering assumptions and limitations
- evaluating the validity of an informed judgement or decision using information extracted from mathematical and statistical media.

2 *Mathematical and statistical media* is any means of communicating mathematical and statistical information to a non-specialist audience.

Examples include:

- graphs including displays (for example, infographics)
- tables
- articles or text.

3 *Informed judgement* means using information together with knowledge or worldviews to form a perspective, assessment, or evaluation.

4 *In context* means information which applies to a real-world context, as opposed to purely mathematical information with no context.

5 Refer to the NCEA [glossary](#) for Māori, Pacific, and further subject-specific terms and concepts.

6 This achievement standard is derived from the Mathematics and Statistics Learning Area at Level 6 of *The New Zealand Curriculum: Learning Media*, Ministry of Education, 2007.

Replacement Information

This achievement standard, AS91944, AS91945, and AS91947 replaced AS91026-AS91038.

Quality Assurance

- 1 Schools and institutions must have been granted consent to assess by NZQA before they can register credits from assessment against Achievement Standards.
- 2 Schools and institutions with consent to assess must engage with the moderation system that applies to those Achievement Standards.

Consent and Moderation Requirements (CMR) reference 0233
