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NZQA | Mana Tohu Mātauranga o Aotearoa
New Zealand Qualifications Authority

Level 1 Mathematics and Statistics 2026

91946 Interpret and apply mathematical and statistical information in context

Credits: Five

Achievement	Achievement with Merit	Achievement with Excellence
Interpret and apply mathematical and statistical information in context.	Interpret and apply mathematical and statistical information in context using relational thinking.	Interpret and apply mathematical and statistical information in context using extended abstract thinking.

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should attempt ALL the questions in this booklet.

Pull out Resource Booklet 91946R from the centre of this booklet.

Show ALL working.

If you need more room for any answer, use the extra space provided at the back of this booklet.

Check that this booklet has pages 2–16 in the correct order and that none of these pages is blank.

Do not write in the margins (////). This area will be cut off when the booklet is marked.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

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QUESTION ONE

Use the information provided in Resource 1A and Resource 1B in the resource booklet to answer this question.

(a) A total of 4 993 923 people answered the census in 2023.

Of this number, 3 246 047 people are working.

Using the graph in Resource 1A, approximately how many people answered that they "work from home"?

(b) A newspaper headline in 2023 stated, "National trends for travel to work: driving to work has **significantly** decreased, with work from home on the rise".

Using information from the graph in Resource 1A, discuss whether you agree or disagree with this headline.

Use evidence from the graph to support your answer, including numerical values.

(c) Provide one reason why you would need to be careful using Resource 1A to make conclusions about travel to work.

Justify your reason.

(d) Resource 1B shows how people travelled to their school or university.

The graph shows the percentages using various forms of transport, showing the results from 2018 and 2023.

Using Resource 1A and Resource 1B, describe two similarities or differences between the methods of getting to work and methods of getting to school or university.

Support your answer with evidence from the resources.

Similarity or difference 1:

Explain what this similarity or difference shows about travel patterns in the population.

Similarity or difference 2:

Explain what this similarity or difference shows about travel patterns in the population.

QUESTION TWO

Use the information provided in Resource 2A and Resource 2B in the resource booklet to answer this question.

(a) Using Resource 2A, what is the probability that a randomly chosen drivers licence holder had a full driver's licence?

(b) A newspaper article claims that it is more likely for a drivers licence holder living in a rural (non-city) area to have a learner drivers licence compared to those living in the city.

Using the evidence in Resource 2A to justify your answer, decide if the claim is true or false.

Comment on how reliable the sample is in Resource 2A.

Resource 2B shows the percentage of under 26-year-olds with a full drivers licence according to which region of New Zealand they live.

The regions are coloured according to the table shown at the top of the New Zealand map.

(c) Using Resource 2B, identify **two** places where less than 25% of under 26-year-olds have a full drivers licence.

(d) Using both Resource 2A and Resource 2B, discuss one similarity or difference between the North Island and the South Island, looking at the percentage of under 26-year-olds with a full drivers licence.

Give reasons for why you might be thinking this.

Link your comments to the probabilities of drivers licences in the cities and rural (non-city) regions.

There is more space for your answer to this question on the following page.

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The assessment continues on the following page.

QUESTION THREE

Use the information provided in Resource 3A and Resource 3B in the resource booklet to answer these questions.

(a) Which city, Auckland or Christchurch, has the largest percentage projected increase for its population?

Justify your decision.

(b) Using Resource 3A, describe and explain two similarities or differences between the methods of travel in Auckland and Christchurch.

Use evidence from the graphs to support your answer, including numerical values.

Similarity or difference 1:

Explain what this similarity or difference indicates about choice of travel in the populations of Auckland and Christchurch.

Similarity or difference 2: _____

Explain what this similarity or difference indicates about choice of travel in the populations of Auckland and Christchurch.

Question Three continues on the following page.

(c) Tawera believes that it takes people who live in the North Island longer to travel to work compared to those people who live in the South Island.

Using Resource 3B, discuss whether you agree with Tawera, giving evidence from the graph to support your decision.

(d) Briefly discuss one factor that might alter the results of this survey in Resource 3B, and how this factor might impact these changes on the time taken to get to work for people who live in Auckland or Christchurch.

(e) Resource 3A informs us that the median travel time to get to work in Auckland is 38 minutes.

Resource 3A also informs us that the median travel time to get to work in Christchurch is 20 minutes.

Using both Resource 3A and Resource 3B, **compare and comment** on the average travel time taken (in minutes) to get to work in **Auckland** and **Christchurch** to the information provided in the graph for both the North Island and the South Island.

Link your comments to the various features provided in the graph in Resource 3B.

Give reasons why you may or may not trust the results of the survey in Resource 3B.

Extra space if required.
Write the question number(s) if applicable.

QUESTION NUMBER

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