This assessment is based on a now-expired version of the achievement standard and may not accurately reflect the content and practice of external assessments developed for 2025 onwards.

91946



Mana Tohu Mātauranga o Aotearoa New Zealand Qualifications Authority

Level 1 Mathematics and Statistics 2024

91946 Interpret and apply mathematical and statistical information in context

Credits: Five

ASSESSMENT TASK

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.

Refer to this document to respond to the task for Mathematics and Statistics 91946.

Make sure that you have Resource Booklet 91946R.

Check that this booklet has pages 2–3 in the correct order and that none of these pages is blank.

Do not use chatbots, generative AI, or other tools that can automatically generate content.

DO NOT TAKE THESE ASSESSMENT MATERIALS OUT OF THE ASSESSMENT ROOM.

You are to compose a report on mobile data usage and cost in New Zealand and overseas.

Your report will be divided into two parts. Section A is focused on exploring a range of monthly mobile plans, and Section B is based on worldwide mobile data usage.

As a guideline, 100–200 well-chosen words is likely to be sufficient in each section (up to one page for each section).

You should refer to specific information contained in the resource booklet throughout your report. Much of the information you will need can be found in the resource booklet provided.

You may also include your own contextual knowledge and/or personal worldviews and research in your report.

You will use the following questions to form the basis of your report.

SECTION A: MONTHLY MOBILE PLANS

- The average monthly mobile data usage in New Zealand is predicted to continue with an increasing trend in the next few years.
 - Comment on the validity of the predicted mobile data usage which is reported in Resource 1A.
 - Justify and support your decision by referring to the information from Resource 1A and Resource 1B.
- 2degrees offers "Carryover data" plans that allow customers to carry their unused mobile data over to the next month.

One.nz offers "Endless data" at reduced speeds instead of "Carryover".

- Compare the "Carryover" and "Endless data" plans and comment on the advantages and disadvantages between these plans.
- Provide numerical evidence using the information from Resource 2, and at least one of Resource 1A and 1B, as well as your own knowledge of mobile data usage to support your answer where appropriate.
- Losefa recently moved with his wife and two teenage sons from Samoa to New Zealand. Losefa was on a Red Plus \$NZ69 monthly mobile plan for himself and his family in Samoa. Details of this Red Plus plan are shown below.

This Red Plus plan is not available to Losefa in New Zealand.

PLAN	VOICE & SMS	Data
Red Plus \$NZ69	Unlimited SMS/VOICE International 100 min/ 100 SMS	17 GB

- Using the information provided in Resource 2 to support your decision, make a recommendation on which plan and mobile service provider, either **2degrees** or **one.nz**, Losefa should choose.
- Discuss at least two assumptions and limitations of your recommendation.

SECTION B: WORLDWIDE MOBILE DATA USAGE

- Using the information provided in Resource 3 to support your decision, explain whether you would support the statement: "Lower prices drive higher data usage".
- Using the information in Resource 4, compare the monthly data usage in 2022 between the top five OECD countries with the heaviest usage of mobile data, and the rest of OECD countries.
- People who live in Finland have some of the highest mobile data usage in the world.
 - Identify and explain at least two factors that account for the high mobile data usage in Finland in comparison to New Zealand. Use the information provided in Resources 3, 4, 5A, and 5B to account for your reasoning and comparison.