

SUPERVISOR'S USE ONLY

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Tirohia te uhi o muri e kitea ai te
whakapākehātanga o tēnei uhi

91946M



919465

Tuhia he (X) ki te pouaka mēnā
kāore koe i tuhi kōrero ki tēnei puka

+



Mana Tohu Mātauranga o Aotearoa
New Zealand Qualifications Authority

Te Pāngarau me te Tauanga, Kaupae 1, 2025

91946M Te whakamāori me te whakahāngai i ngā pārongo o
te pāngarau me te tauanga i tētahi horopaki

Ngā whiwhinga: E rima

Paetae	Kaiaka	Kairangi
Te whakamāori me te whakahāngai i ngā pārongo o te pāngarau me te tauanga i tētahi horopaki.	Te whakamāori me te whakahāngai i ngā pārongo o te pāngarau me te tauanga i tētahi horopaki mā te whakaaro ā-pānga.	Te whakamāori me te whakahāngai i ngā pārongo o te pāngarau me te tauanga i tētahi horopaki mā te whakaaro waitara e whānui ana.

Tirohia kia kitea ai e rite ana te Tau Ākonga ā-Motu (NSN) kei runga i tō puka whakauru ki te tau kei runga i tēnei whārangi.

Me whakamātau koe i ngā tūmahi KATO A kei roto i tēnei pukapuka.

Tangohia Te Pukapuka Rauemi 91946MR i te puku o te pukapuka nei.

Whakaatuhia ngā whiriwhiringa KATO A.

Mēnā ka hiahia wāhi atu anō koe mō ō tuhinga, whakamahia ngā whārangi wātea kei muri o tēnei pukapuka.

Tirohia kia kitea ai e tika ana te raupapatanga o ngā whārangi 2–23 kei roto i tēnei pukapuka, ka mutu, kāore tētahi o aua whārangi i te takoto kau.

Kaua e tuhi ki ngā paenga (/////). Ka poroa taua wāhanga ka mākahia ana te pukapuka.

HOATU TĒNEI PUKAPUKA KI TE KAIWHAKAHAERE Ā TE MUTUNGA O TE WHAKAMĀTAUTAU.

(a) Mā te whakamahi i Te Rauemi 1A, e hia ōrau o ngā hū hākinakina o Nike e nui ake ana te utu i te \$500?

- Matapakina ngā āhuatanga e rite ana, e rerekē ana hoki e ai ki te **pū**, ki te **panoni**, ki te **āhua**, me te **hora**.
- Tuhia ngā taunaki pāngarau e whai tikanga ana.
- I tō tuhinga, whakaahuatia ngā āhuatanga rerekē e RUA i te horopaki (ehara i te mea me whāiti ki ngā mea e rua anake).
- **Nā runga i tēnei tīpakotanga, he aha te whakataunga ka taea e koe mō ngā momo hū hākinakina o Adidas, o Nike hoki, e mōhiotia ai te momo e nui ake ana te utu?**
- Whakamahia ngā taunaki i te kauwhata hei tautoko i tō tuhinga.

(d) He aha ngā ia, ngā tauira tāruarua, ngā āhuatanga rerekē hoki e kitea ana e koe i te whakapaunga moni kei te kauwhata?

- (c) Give at least one justified reason why Resource 1A may not be reliable for comparing the cost of Adidas and Nike sports shoes.

Resource 1B shows the amount of spending on clothing and footwear in New Zealand between the years 2010 and 2024, in millions of New Zealand dollars.

- (d) What trends, repeating patterns, and unusual features do you notice in the spending shown in the graph?

- Support your statements with evidence from the graph.
- Give at least two reasons to support and explain your answer.

- Whakamāramatia tō matapae, ā, matapakina hoki te kaha o tō ngākau titikaha ki taua matapae.

- Explain your prediction, and discuss how confident you are in it.

TE TŪMAHI TUARUA

Whakamahia ngā pārongo kei Te Rauemi 2A me Te Rauemi 2B o te pukapuka rauemi hei whakaoti i ēnei tūmahi.

E whakaatuhia ana i te kauwhata kei Te Rauemi 2A te hononga i waenga i te utu mō ngā hū hākinakina me te rahi o ngā hū.

- (a) Whakaahuatia, whakamāoritia hoki ngā āhuatanga rerekē e RUA o te pānga e whakaatuhia ana i Te Rauemi 2A.

Te āhuatanga 1: _____

Te āhuatanga 2: _____

QUESTION TWO

Use the information provided in Resource 2A and Resource 2B in the resource booklet to answer these questions.

The graph in Resource 2A shows the relationship between the price of sports shoes and the size of the shoes.

- (a) Describe and interpret TWO different features of the relationship shown in Resource 2A.

Feature 1: _____

Feature 2: _____

(b) Me hoko hū hākinakina hou a Adina, ko te 6 te rahi.

Mā te whakamahi i te kauwhata kei Te Rauemi 2A, e hia te utu e tika ana hei utu mā Adina?

- E pēhea ana te kaha o tō ngākau titikaha ki te whakamahi i tēnei kauwhata hei matapae i te utu o ngā hū?
- Whakaūngia tō tuhinga ki ngā whakaaro ā-tauanga.

- (b) Adina needs to buy a new pair of size 6 sports shoes.

Using the graph in Resource 2A, what price should Adina expect to pay?

- How confident can you be in using this graph to predict shoe price?
- Support your answer with statistical reasoning.

- Ricky wonders whether he should buy one or two pairs of sports shoes.

Make your recommendations, with reasons and considerations, using the information provided in Resource 2B, **as well as including your own personal world views.**

- Mā te whakamahi i ngā rauemi e **rua**, i Te Rauemi 2A me Te Rauemi 2B, tūtohungia te kōwhiringa pai katoa mō tā Ricky hoko hū hākinakina mō te kaupeka e tū mai nei.

- (d) Ricky is currently wearing size 7 sports shoes, but he is growing quickly. His mother thinks that he will need larger size sports shoes next season.

Using **both** Resource 2A and Resource 2B, recommend the best option for Ricky when buying his sports shoes for next season.

TE TŪMAHI TUATORU

Whakamahia ngā pārongo kei Te Rauemi 3 o te pukapuka rauemi hei whakaoti i ēnei tūmahi.

- (a) He mea whakatutuki te rangahau e te 2571 tāngata i toro atu rā ki te paetukutuku o *Running Shoes Guru*.

E ai ki te whakaāwhiwhinga, tokohia ngā tāngata i whakatutuki rā i te rangahau, ka oma i te ata, i tōna tikanga?

- (b) E ai ki te rangahau, ko tēhea te momo hū oma ka nui katoa te paingia?

- Matapakina te kaha o tō ngākau titikaha ki te whakatau ko tēnei te momo hū oma e nui katoa ana te paingia.
- Parahautia tō tūhinga.

QUESTION THREE

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

- (a) The survey was completed by 2571 people who visited the *Running Shoes Guru* website.

Approximately how many of the people who completed this survey, would be expected to run in the morning?

- (b) According to the survey, which brand of running shoe is the most preferred?

- Discuss how confident you would be in concluding that this brand is the most popular running shoe.
- Justify your answer.

- (c) Matapakina ngā āhuatanga e rua e ōrite ana, e rerekē ana rānei e pā ana ki ngā hū oma e **paingia ana i runga i te pakeketanga**.

Whakamahia ēnei pārongo hei tuhi tūtohunga mō te momo hū, ki ōu whakaaro, ka hokona e Quinn, e 31 tau nei tana pakeke.

Te āhuatanga 1 e ōrite ana, e rerekē ana rānei: _____

Te āhuatanga 2 e ōrite ana, e rerekē ana rānei: _____

Ngā tūtohunga ki a Quinn: _____

*Ka rere tonu te Tūmahi
Tuatoru i te whārangi e whai
ake nei.*

- Use this information to make suggestions of what brand of shoe you think will be bought by Quinn, who is 31 years old.

Question Three continues on the following page.

Question Three continues
on the following page.

- Whakaurua he taunaki mai i ngā wāhanga e rua o Te Rauemi 3 (kia maha ake rānei) hei parahau i tō tuhinga.

- He needs to buy a new pair of running shoes.

Include evidence from at least two sections of Resource 3 to justify your answer.

**He whārangi anō ki te hiahiatia.
Tuhia te tau tūmahi mēnā e hāngai ana.**

TE TAU
TŪMAHI

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

QUESTION
NUMBER

English translation of the wording on the front cover

Level 1 Mathematics and Statistics 2025

91946M 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 91946MR 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 2–23 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.