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91946R

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

RESOURCE BOOKLET

Refer to this booklet to answer the questions for Mathematics and Statistics 91946.

Check that this booklet has pages 2–7 in the correct order and that none of these pages is blank.

YOU MAY KEEP THIS BOOKLET AT THE END OF THE EXAMINATION.

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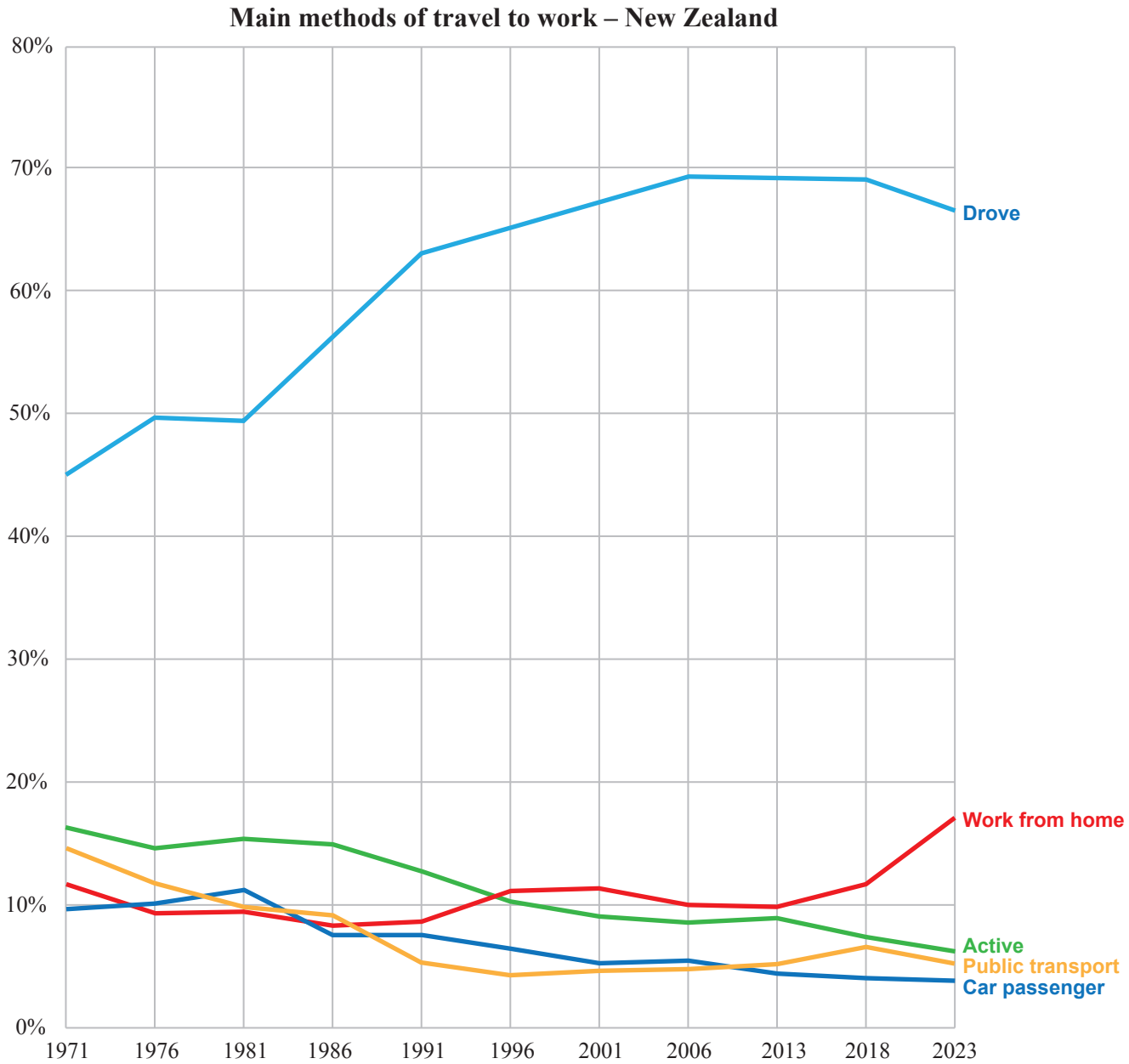
RESOURCE 1A

This graph uses information taken from the 11 New Zealand censuses since 1971.

The census is an official survey of the whole population of New Zealand that is carried out on one specific day every five years to find out information about all of the people who live there, and also to obtain many details of the people's lifestyle.

One of the census questions asked people how they travelled to work on that particular day of the census.

The graph below shows the percentages of the main methods of travel to their place of work that was selected by the people who answered that question on the census.



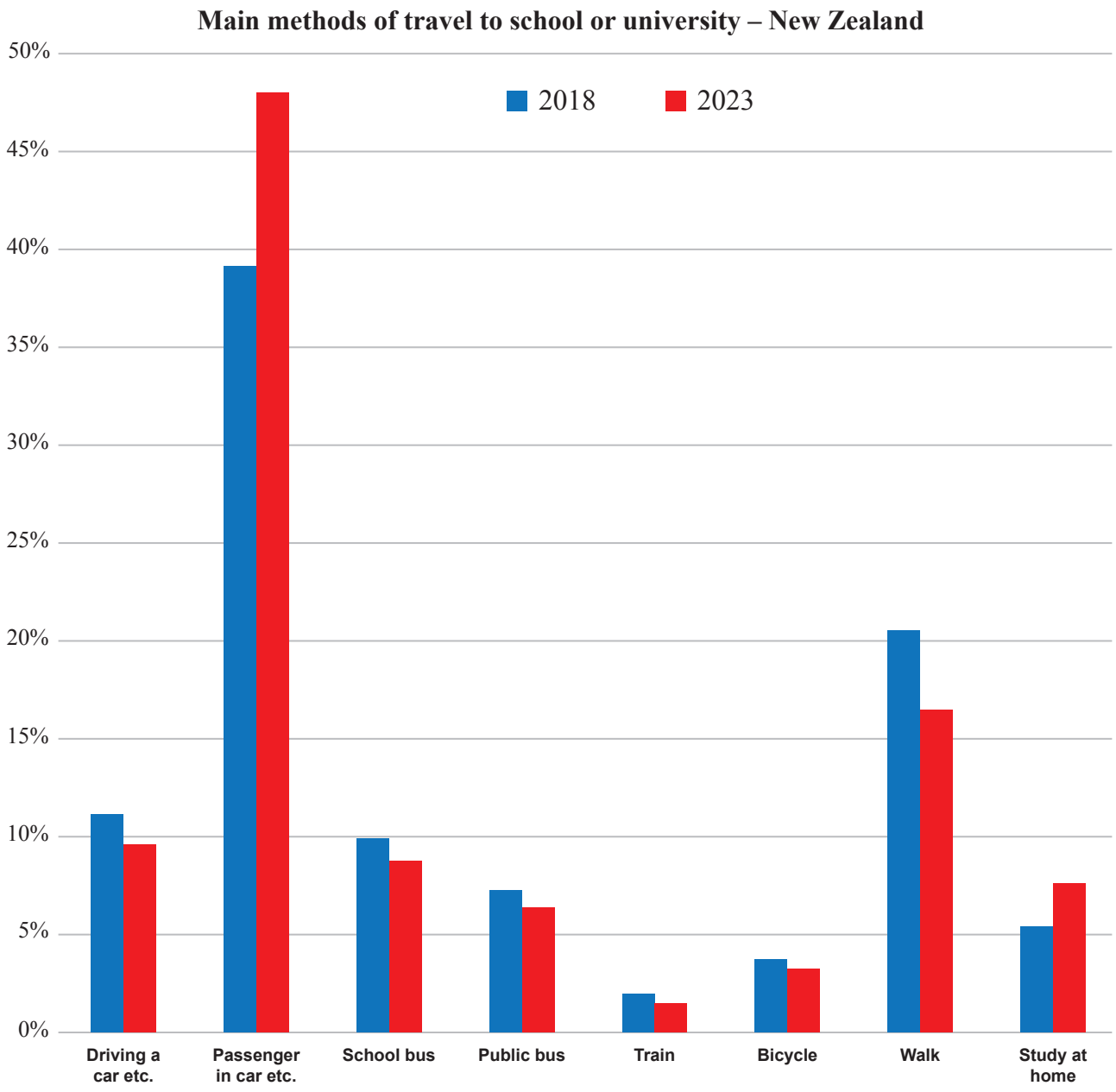
Adapted from: www.greaterauckland.org.nz/wp-content/uploads/2024/10/2023-Census-NZ-Summary.png

RESOURCE 1B

This graph uses information taken from the New Zealand census in 2018 and 2023.

The census question asked people how they travelled to their school or university on that day of the census.

The graph below shows the percentages of the main methods of travel to their school or university that was selected by the people who answered that question on the census, comparing responses between the 2018 census and the 2023 census.



Adapted from: www.greaterauckland.org.nz/2024/10/07/2023-census-travel-to-work-results/

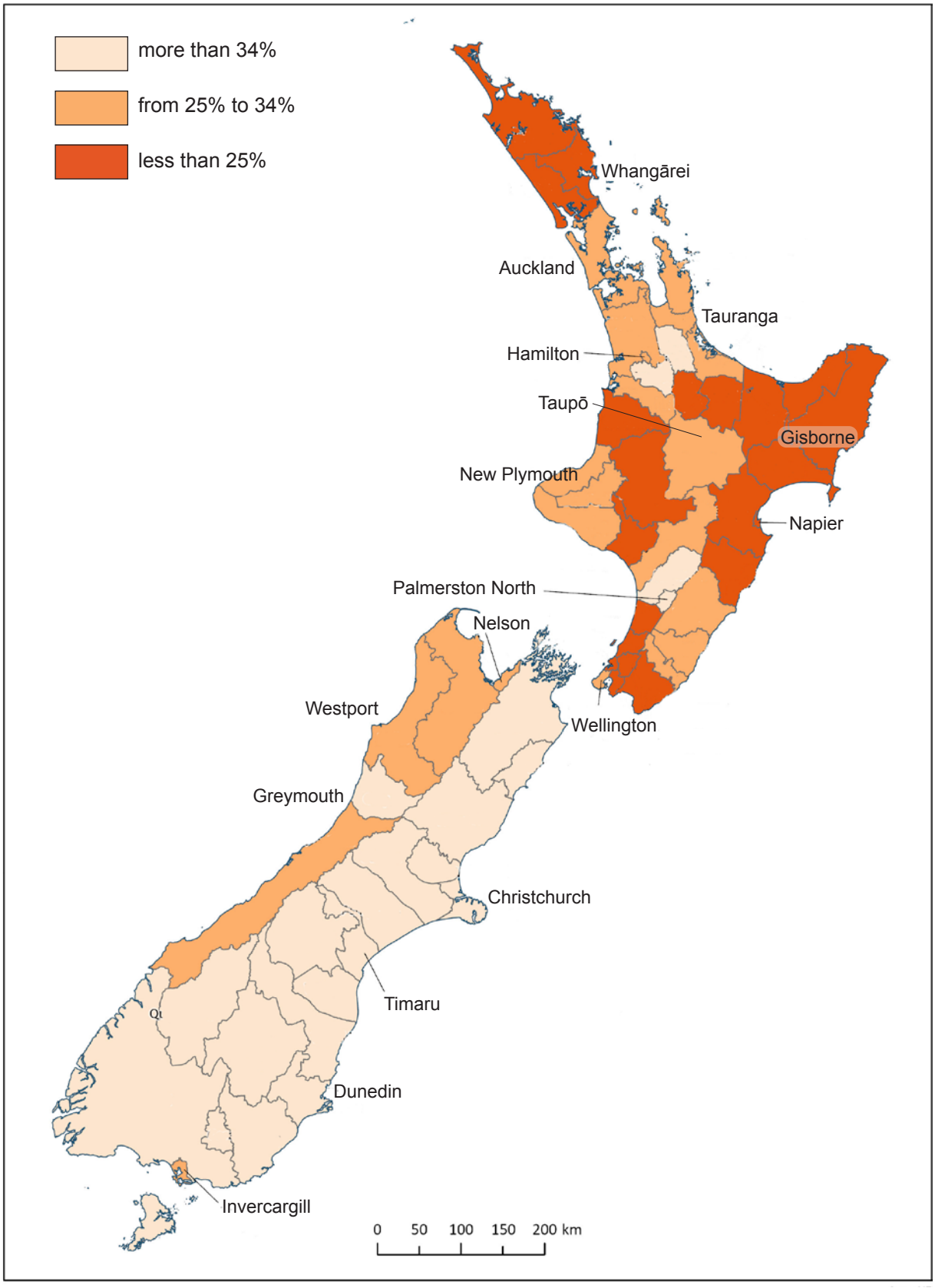
RESOURCE 2A

This resource shows a random sample of 160 drivers licence holders aged from 16 to 26 years, taken from the New Zealand Transport Agency (NZTA) website in 2024.

	Cities	Rural (Non-City)	Totals
Learner's drivers licence	16	28	44
Restricted drivers licence	19	33	52
Full drivers licence	29	35	64
Total	64	96	160

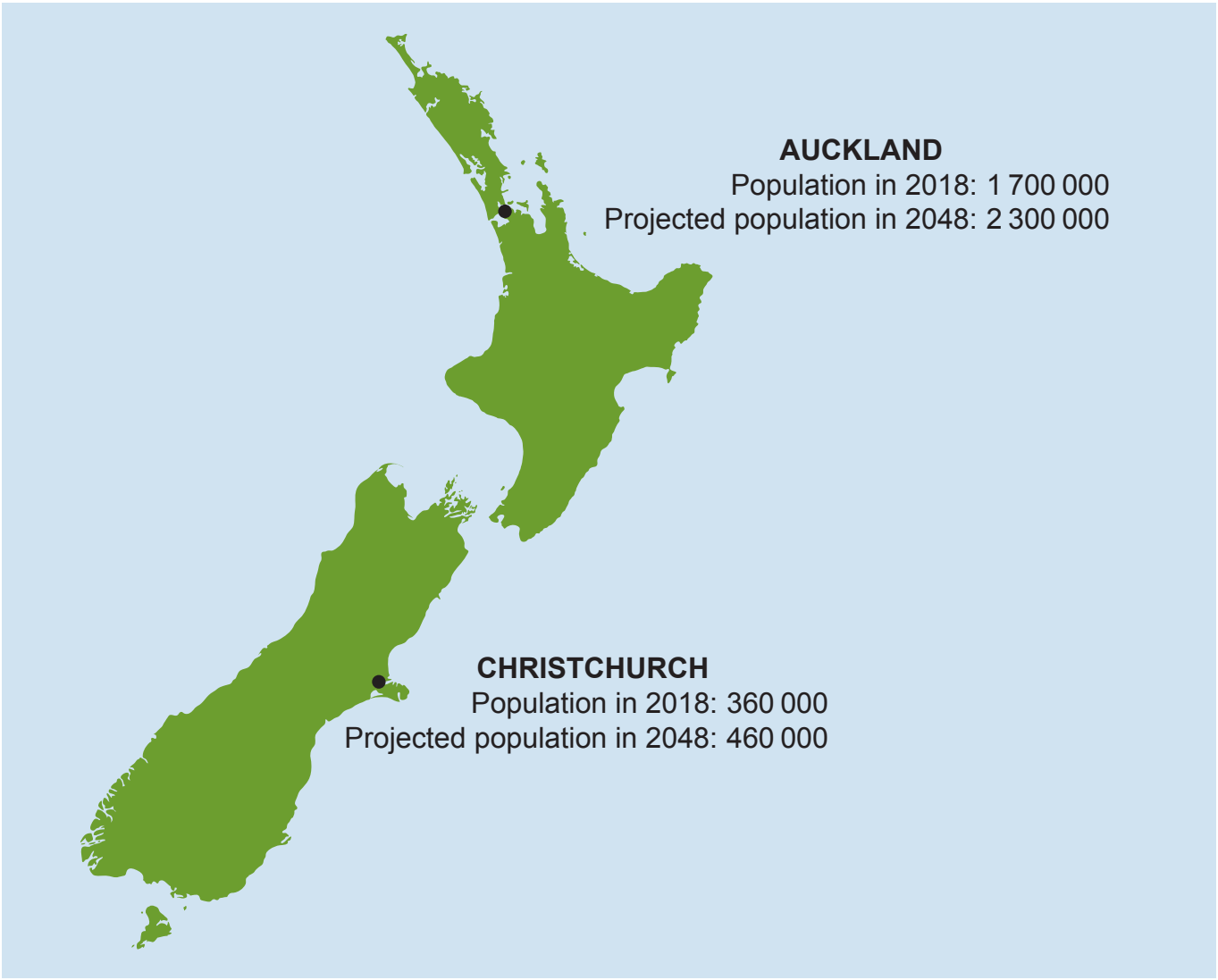
RESOURCE 2B

Percent of under 26-year-olds with a full drivers licence



Adapted from: www.motu.nz/assets/Uploads/Motu-Research-note-44-Rate-of-driver-licence-holding-in-Aotearoa-NZ.pdf

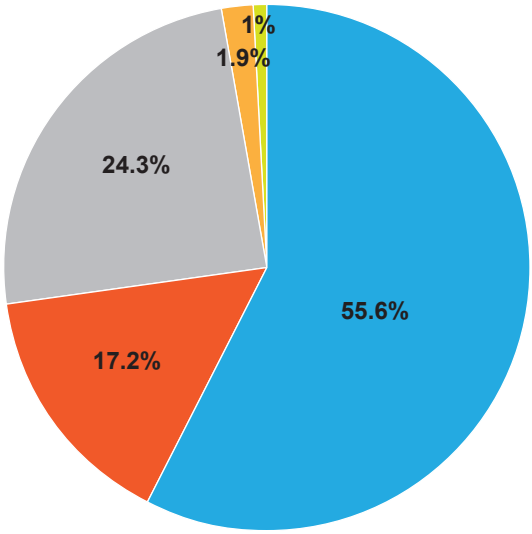
RESOURCE 3A



Main Methods of Travel to Work

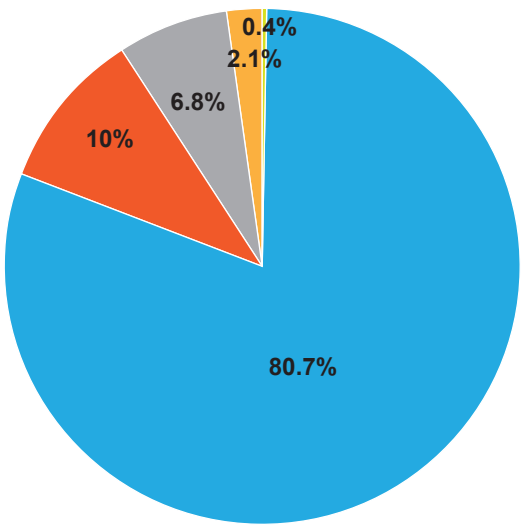
Auckland

Median travel time to work is 38 minutes.



Christchurch

Median travel time to work is 20 minutes.



Car Walking Public transport Cycling Motorcycle

Adapted from: https://nzta.govt.nz/planning-and-investment/planning/arataki/national-and-regional-directions/regional-directions/auckland and https://nzta.govt.nz/planning-and-investment/planning/arataki/national-and-regional-directions/regional-directions/canterbury.

RESOURCE 3B

An **online** survey was sent to a random group of people who travelled to work by car.

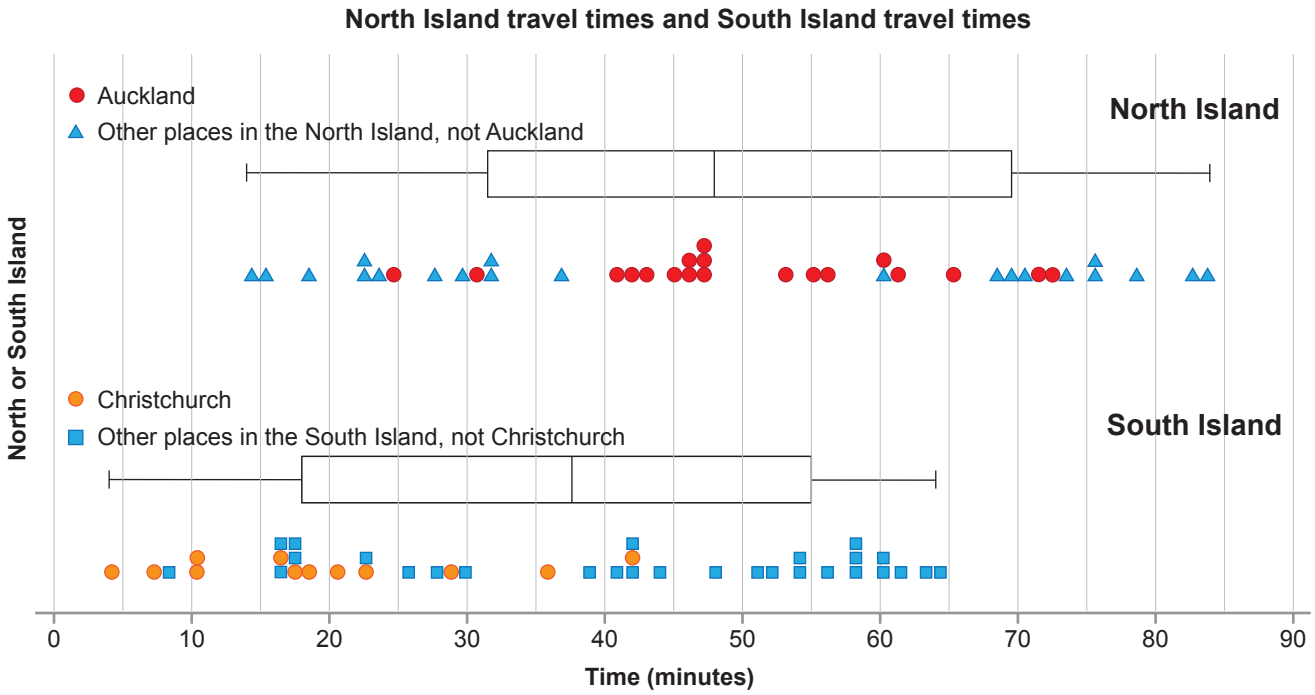
The survey asked 40 people in the North Island and 40 people in the South Island.

The questions were about their travel time to work.

The participants were randomly selected using car registration details from the New Zealand Transport Agency (NZTA).

One of the questions asked, "What was your average time taken (in minutes) to get to work by car?"

The results are shown in the graph below.



	Minimum	Lower quartile	Median	Mean	Upper quartile	Maximum	Sample size
North Island	14	31.5	48	49.725	69.5	84	40
South Island	4	18	37.5	36.125	55	64	40

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