

To be completed by candidate

NSN

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School Code

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SUPERVISOR'S USE ONLY

32406 TERM 2

Draw a cross through the box (☒)
if you have NOT written in this booklet

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Mana Tohu Mātauranga o Aotearoa
New Zealand Qualifications Authority

Numeracy 2026

32406 Apply mathematics and statistics in a range of everyday situations

Credits: Ten

WEEK ONE | 18–22 MAY 2026

OUTCOMES	
1	Formulate mathematical and statistical approaches to solving problems in a range of everyday situations.
2	Use mathematics and statistics to meet the numeracy demands of a range of everyday situations.
3	Explain mathematical and statistical responses to situations.

Enter your National Student Number (NSN) and School Code into the space above.

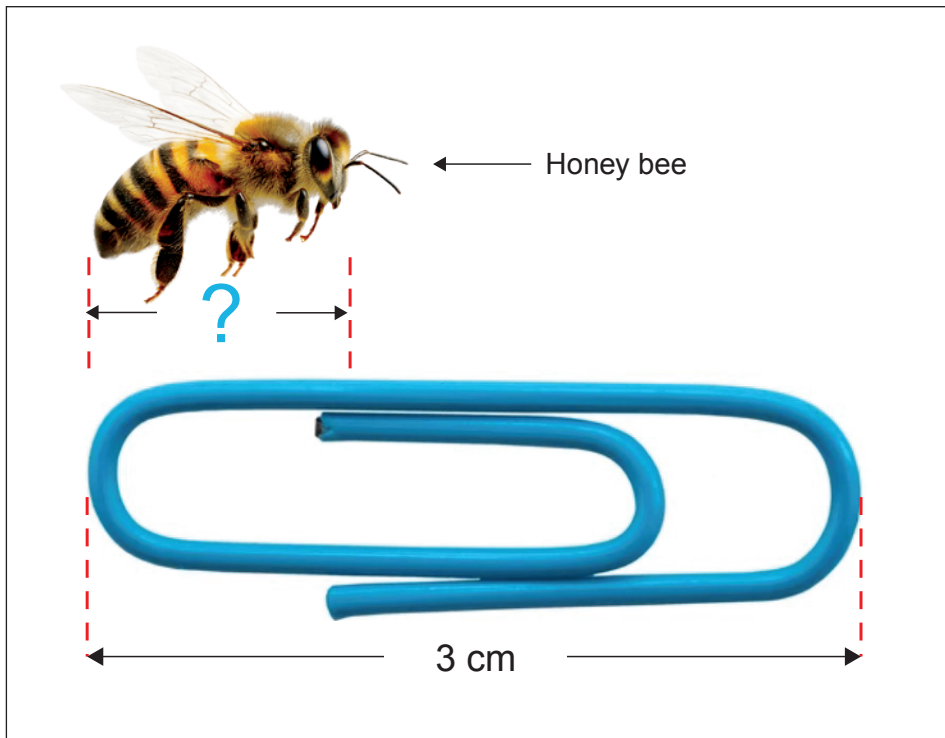
You should attempt ALL the questions in this booklet.

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 2–31 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.

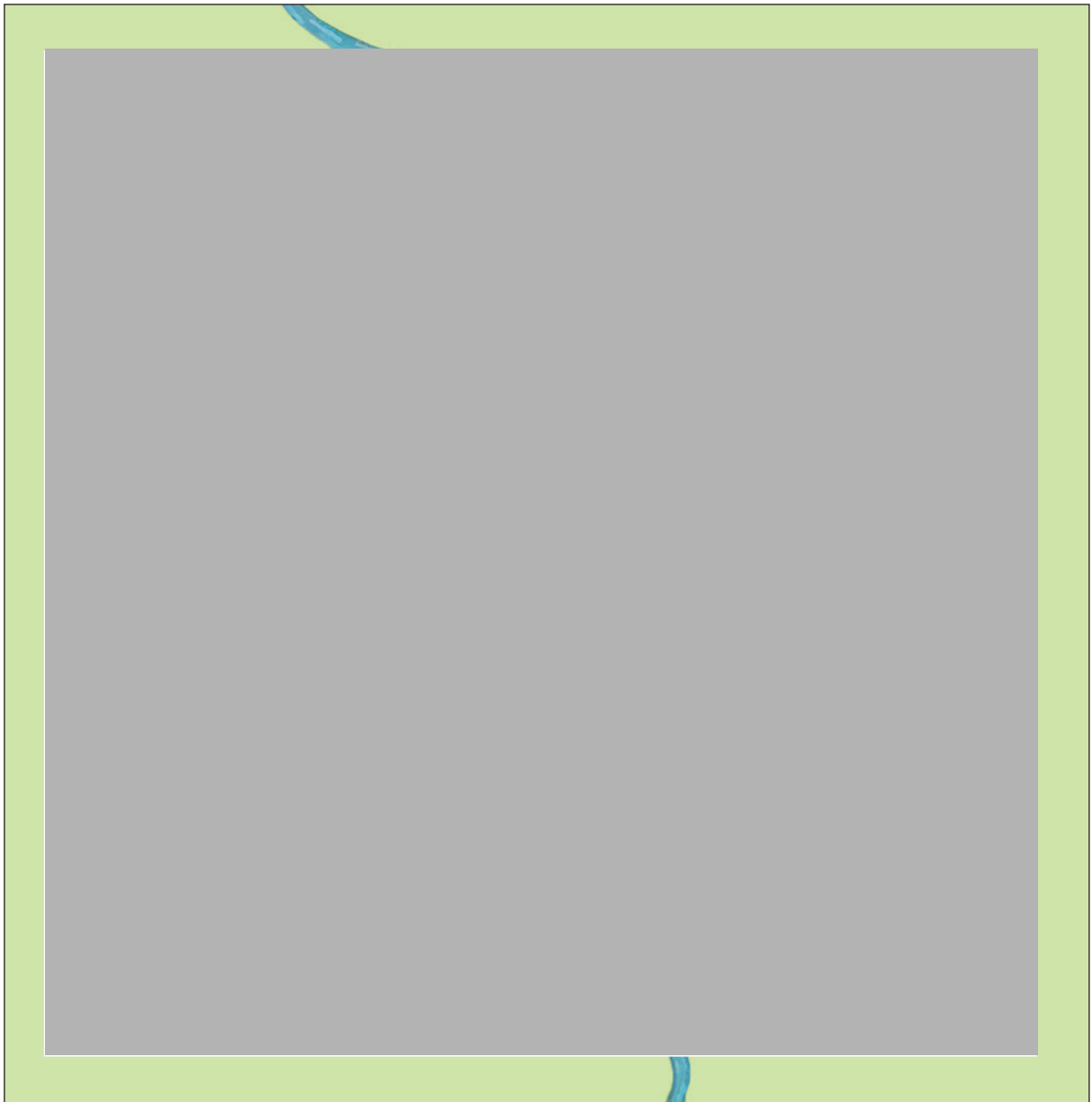
YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

QUESTION ONE: Honey bees

This paper clip is 3 centimetres long in real life.

- (a) About what length is the honey bee in **millimetres**?

	mm
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Honey bees can fly **up to 5 km** from their hive.

- (b) On the map, which letter shows the **furthest** a honey bee can reach from the hive?

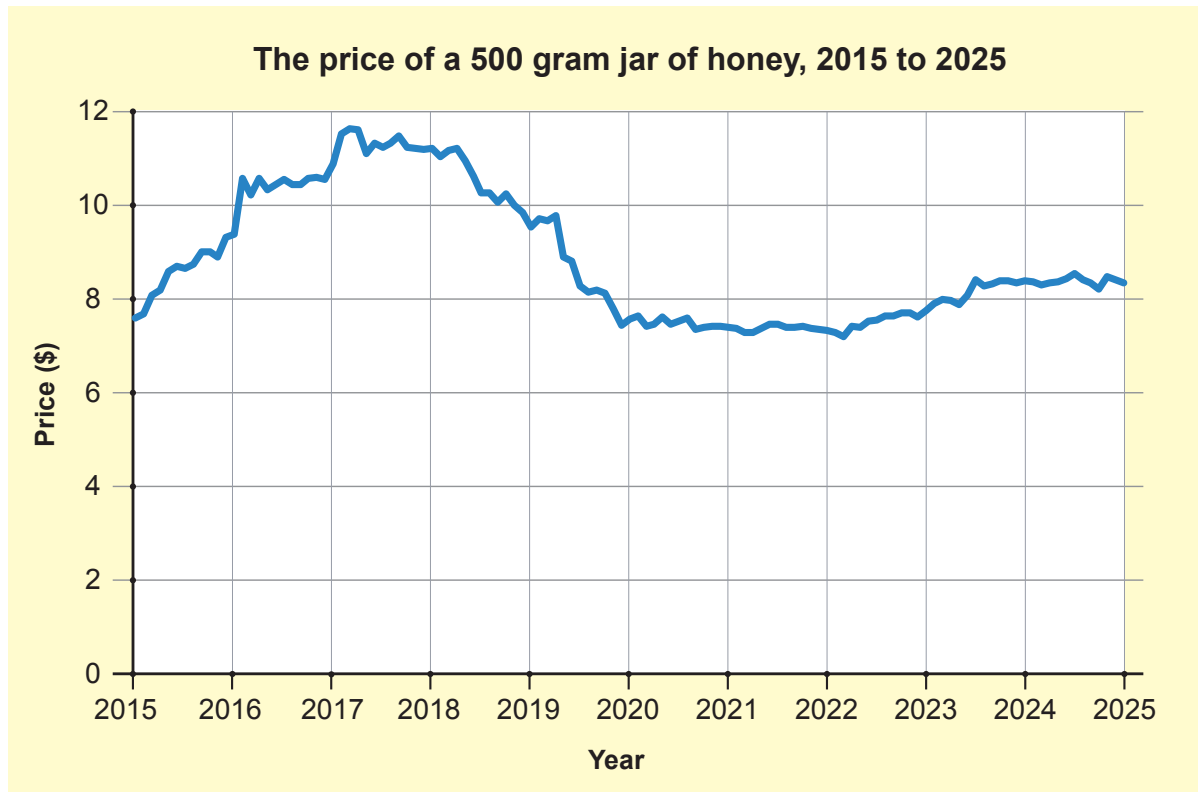
Select (✓) the correct letter.

- (i) A ☐ (ii) B ☐ (iii) C ☐ (iv) D ☐ (v) E ☐

One honey bee makes about 0.5 grams of honey in its life.

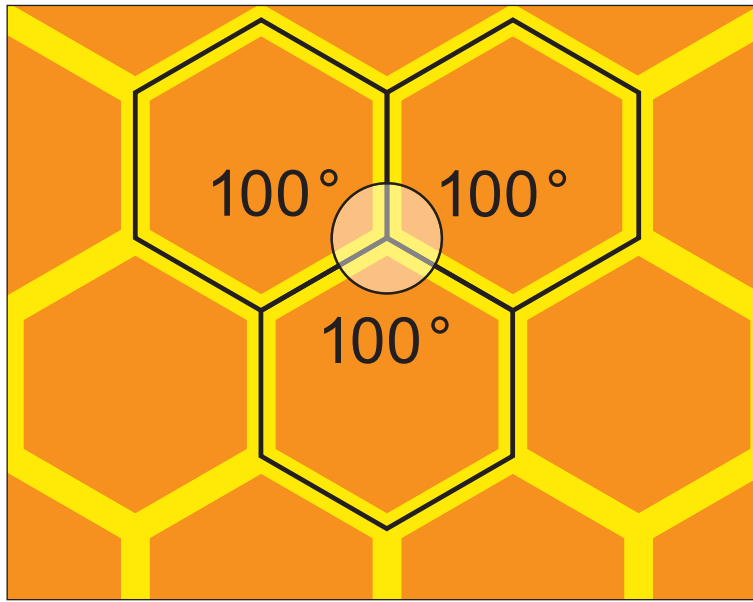
- (c) About how many bees are needed to make 7 grams of honey?

honey bees



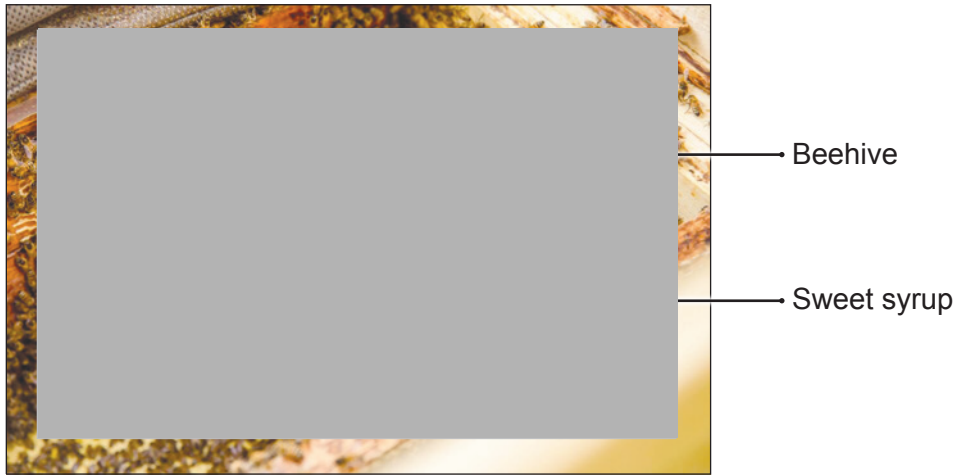
- (d) Use **three** dates and prices from the graph. Describe how the price of a 500 gram jar of honey has changed from 2015 to 2025.

Honey bees make a honeycomb of regular hexagons.



- (e) A beekeeper says that each angle in the honeycomb must measure 100° .
Do you agree? Explain your answer using angles.

Beekeepers sometimes make a sweet syrup for their honey bees.



A beekeeper uses **five** cups of sugar for every **two** cups of water.

- (f) How many cups of sugar will be needed for seven cups of water?

Write your answer as a decimal.

cups of sugar

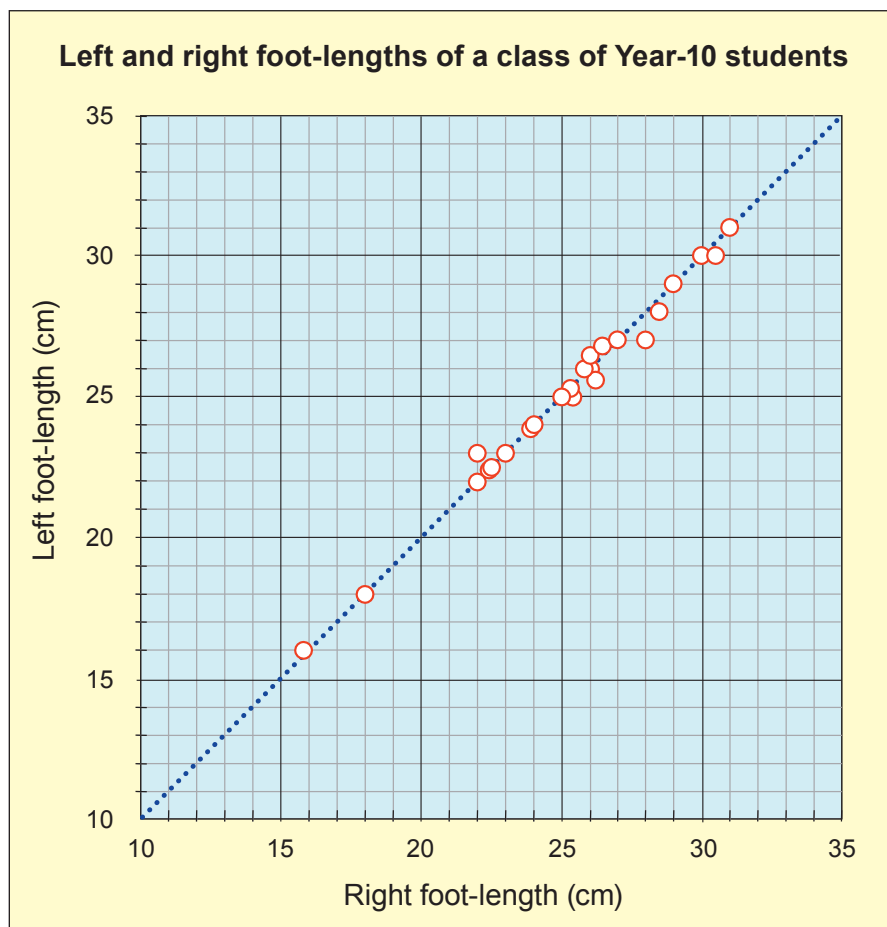
QUESTION TWO: Footwear

Running shoes can last about 450 kilometres.

A person runs five kilometres, two times a week.

- (a) How many weeks should their shoes last?

weeks



Someone says that students' left and right feet are about the same length.

- (b) Does the dotted line show that this statement is true? Use information from the graph to explain your answer.

This chart compares United Kingdom (UK) and European (EU) sizes of men's shoes.

Shoe sizes	
UK	EU
5	39
6	40
7	41
8	42
9	43
10	44
11	45
12	46
13	47

(c) Which rule is the **best** to change **EU** sizing into **UK** sizing?

Select (✓) the correct answer.

- (i) Divide the EU size by 4 ☐
- (ii) Subtract 34 off the EU size ☐
- (iii) Divide the EU size by 8 ☐
- (iv) Subtract 30 off the EU size ☐
- (v) Find the square root of the EU size ☐

A shoe shop has a deal. If you buy two pairs of shoes you get the second pair for half price.

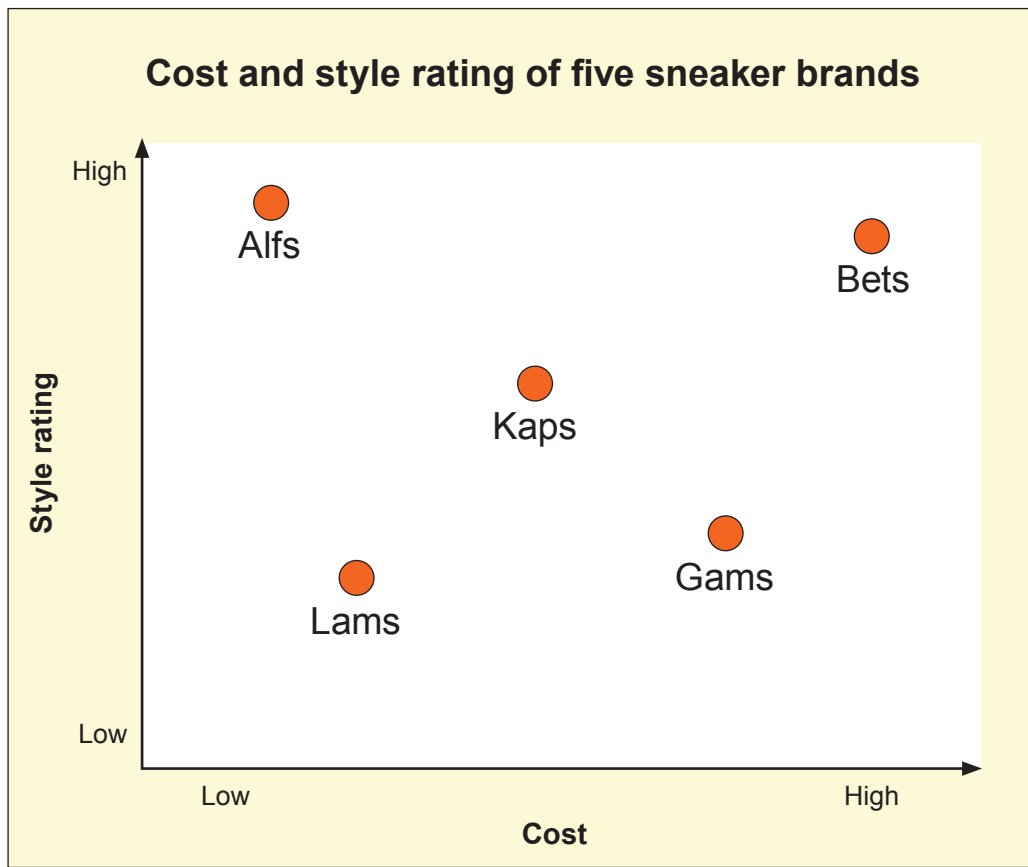


You want to buy two pairs of shoes that usually cost the same amount per pair.

- (d) Does this mean that you save 50% of the **total price**?

Explain your answer.

This graph shows the cost and style rating of five sneaker brands.

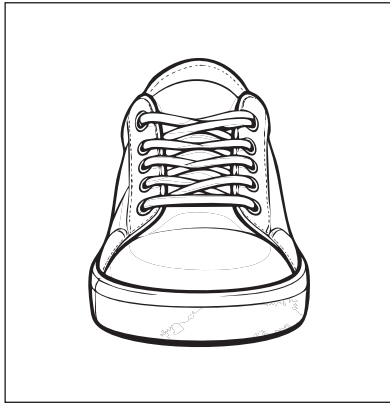


A magazine article states: “Top pick: *Kaps* – stylish without the high cost.”

(e) Do you agree with the magazine?

Explain your answer using information from the graph.

Here are the front and side views of a sneaker.



Front



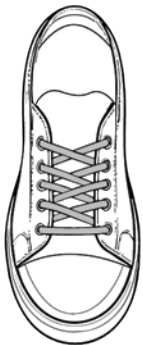
Side

(f) Which view shows the same sneaker seen **from above**?

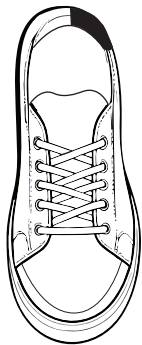
Select (✓) the correct answer.



(i)



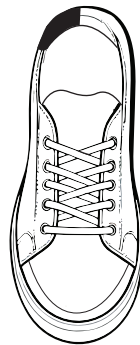
(ii)



(iii)



(iv)



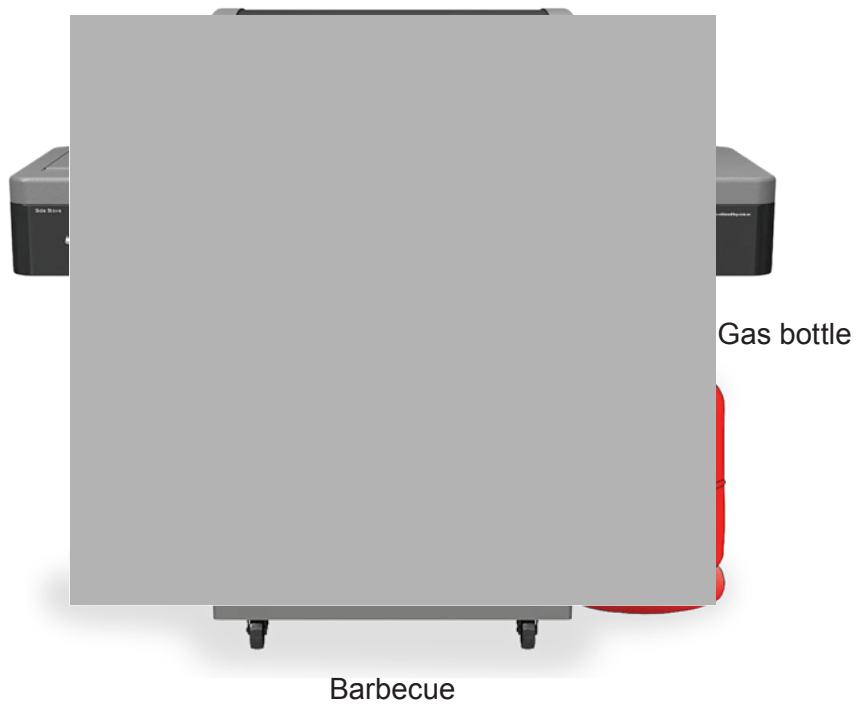
QUESTION THREE: Barbecue

The phone says that there is a 20% chance of rain.

The radio says there is a “1 in 10” chance of rain.

- (a) Are the phone and radio both giving the same chance of rain?

Explain your answer using **fractions or percentages**.



Each burner on this barbecue uses 150 grams of gas per hour.

- (b) If four burners are on for two hours, how much gas is used?

Give your answer in grams.

g

You go to the supermarket to get sausages and chicken drumsticks for 27 people.



You have \$100 for meat.

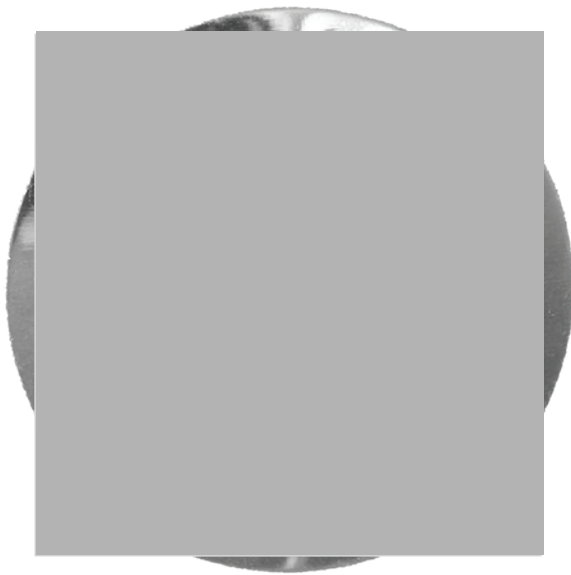
You buy 4 kg of sausages and 3.5 kg of drumsticks.

(c) About how much money is left?

Select (✓) the best answer.

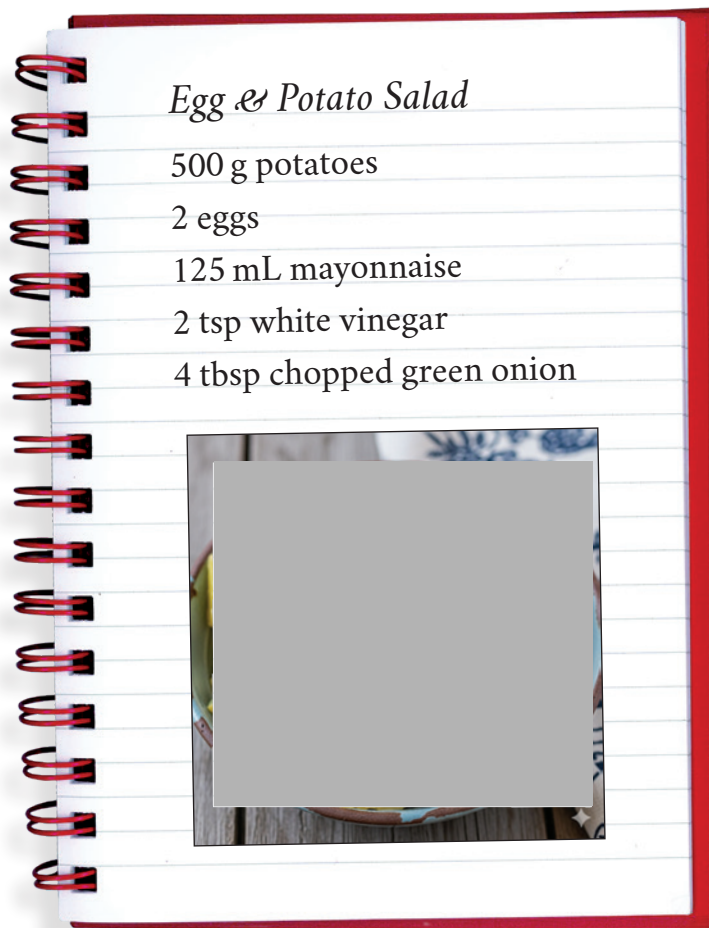
- (i) \$15 ☐
- (ii) \$20 ☐
- (iii) \$25 ☐
- (iv) \$30 ☐
- (v) \$75 ☐

This thermometer shows the temperature in degrees Celsius (°C) and Fahrenheit (°F).



- (d) How many **more** degrees Celsius does the barbecue need to heat up to reach 180 °C?

 °C



The recipe above makes enough salad for **six** people.

- (e) How many **eggs** do you need to make enough salad for 27 people?

eggs

At the barbecue there are:

- Two 3-litre bottles of juice
- One 5-litre bottle of water
- Four 2.25-litre bottles of soft drink.

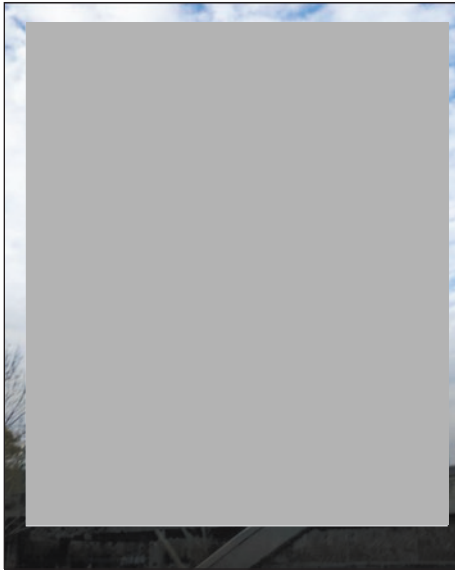


Each person will drink about 750 millilitres.

(f) Is there enough drink for all 27 people?

Show how you worked out your answer.

QUESTION FOUR: Skateboards



The ratio of female to male skateboarders in New Zealand is 1 to 4.
30,000 young people skateboard in New Zealand.

- (a) How many of them are **female**?

female skateboarders

This skateboard usually sells for \$180.

With a discount you only pay \$135.

- (b) What percentage is the **discount**?

%



A skateboarder is moving at 15 kilometres per hour (km/h).

- (c) How many **metres** does the skateboarder move in one minute?

 m


A shop sells four different board decks. There are 10 possible designs that can be put on any of the four board decks.



Board decks

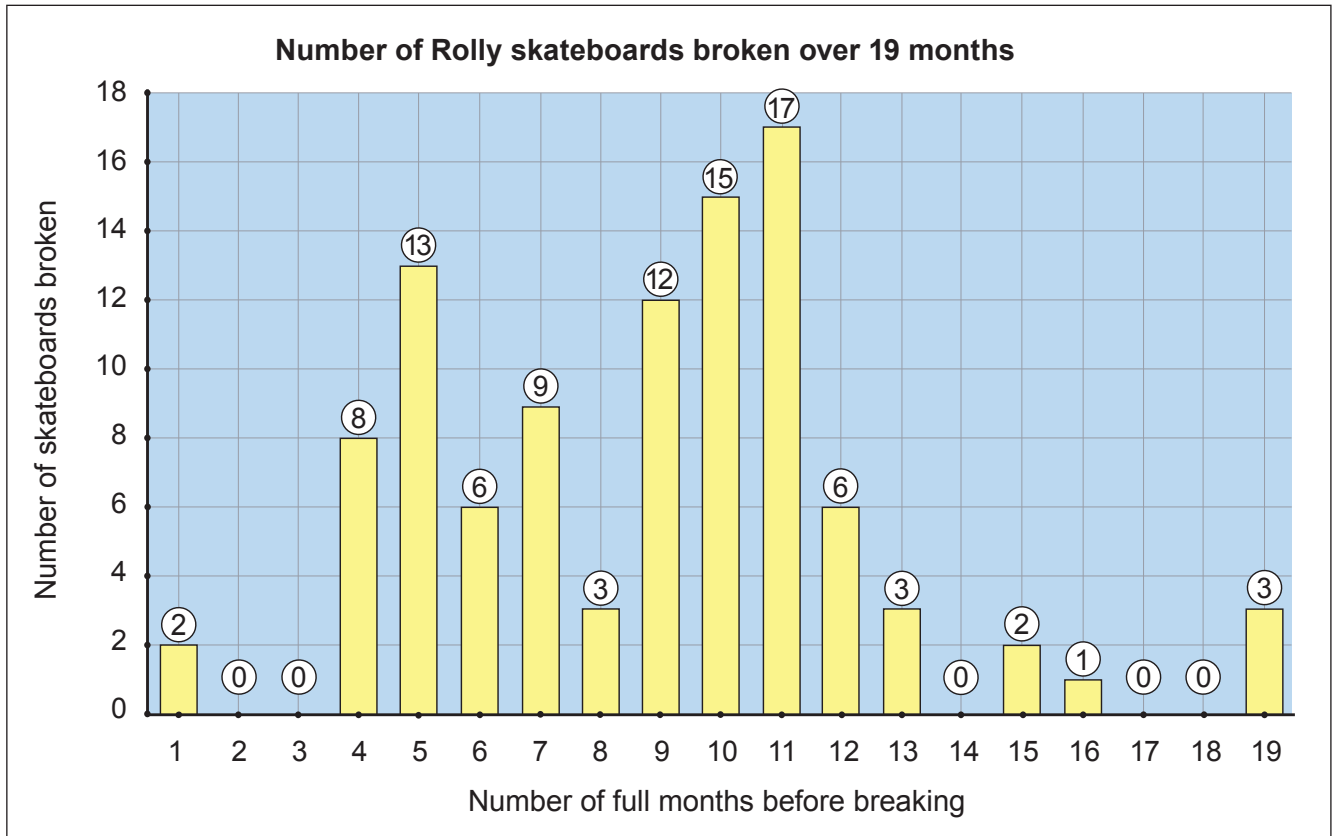


Designs

- (d) How many different combinations are there of board deck and design?

 combinations

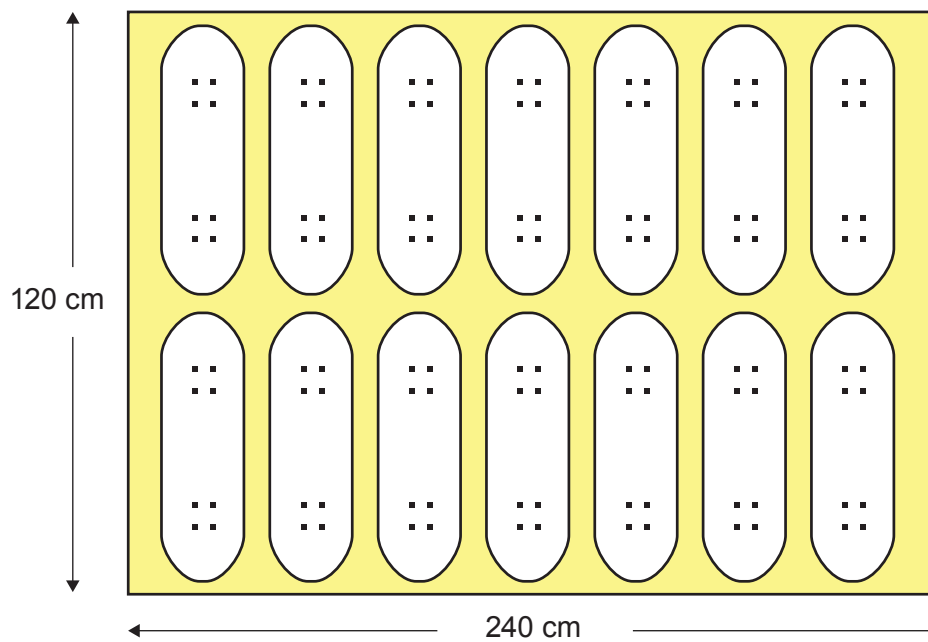
This graph shows how many months 100 Rolly skateboards lasted before breaking.



Rolly says **half** of their skateboards last **nine** months or more.

(e) Is this true? Use numbers from the graph to explain your answer.

A sheet of plywood is used to make skateboard decks.



The sheet measures 120 cm by 240 cm.

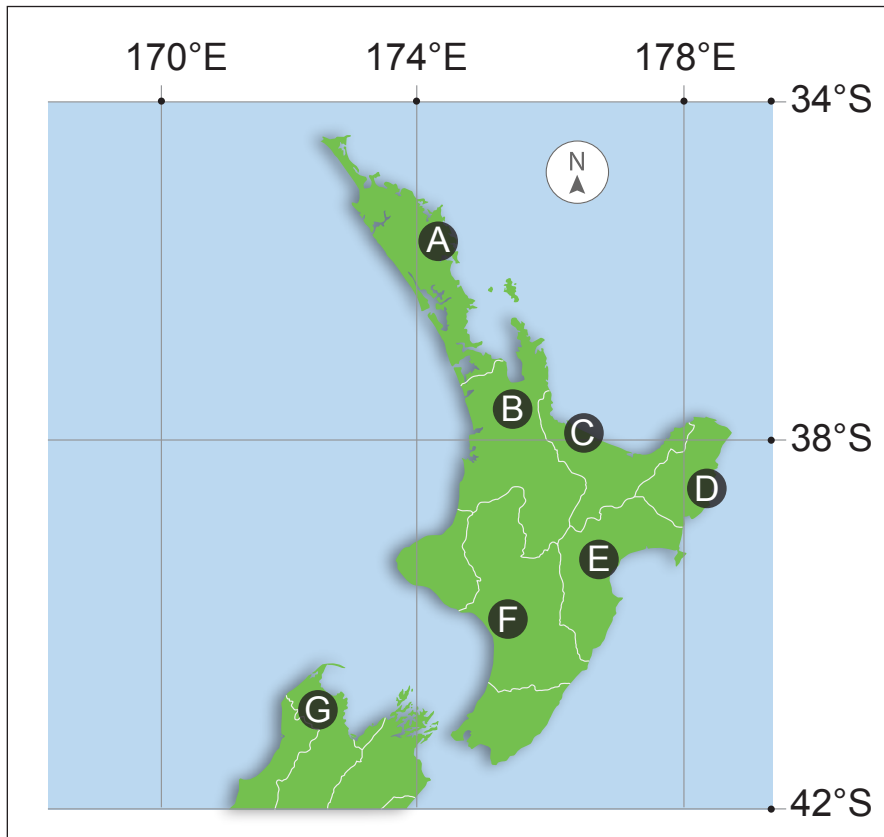
25% of the sheet is wasted in the cutting process.

(f) How many square centimetres of sheet are wasted?

 cm^2

QUESTION FIVE: Kiwifruit

The main kiwifruit growing areas of New Zealand are shown as letters on this map.



- (a) Which **letter** is at about 40°S and 175°E?



Golden kiwifruit is selling at \$8.95 per kilogram.

You buy six kiwifruit with a total weight of 760 grams.

- (b) How much do you pay **to the nearest 10 cents**?

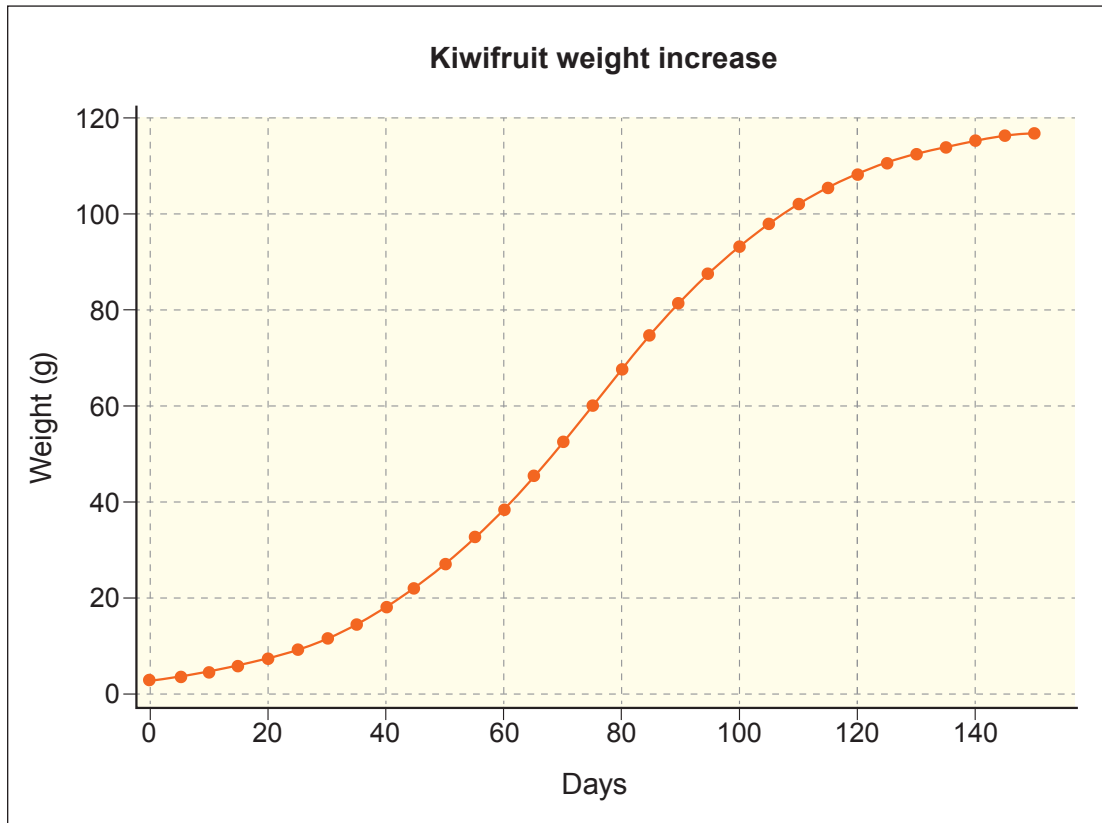
\$

The total weight of 10 kiwifruit is 1.2 kilograms.

- (c) What is the average weight of one kiwifruit, in **grams**?

g

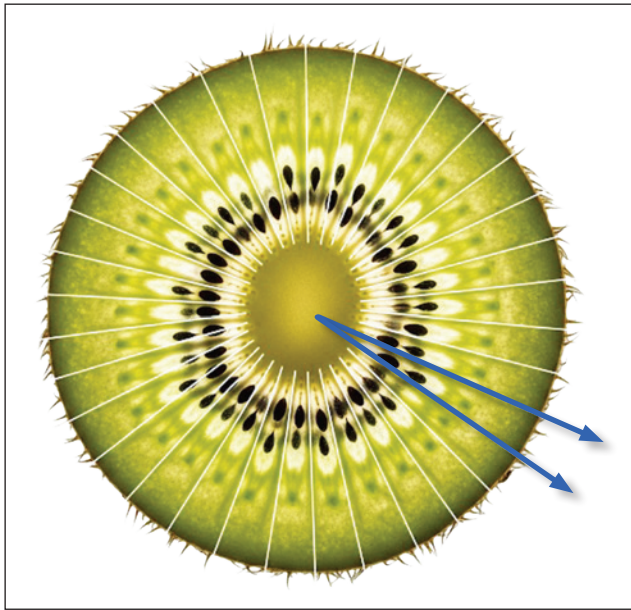
This graph shows how the weight of a kiwifruit changes as it grows.



(d) Between which days does the kiwifruit weight increase at the fastest rate?

Select (✓) the correct answer.

- (i) Days 0–30 ☐
- (ii) Days 35–55 ☐
- (iii) Days 60–90 ☐
- (iv) Days 95–115 ☐
- (v) Days 120–150 ☐



This kiwifruit slice has 34 equal sections. One section is shown between the blue arrows.

- (e) What is the average angle of a section, in degrees?

Round your answer to the **nearest whole number**.

 °

Shoppers are asked which kiwifruit they like the best.



So far, the votes are:

- Green = 32
- Golden = 57
- Red = 71

(f) Based on these results, what is the chance the next shopper will choose golden?

Give your answer as a **percentage**.

 %

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

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Write the question number(s) if applicable.**

QUESTION
NUMBER

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Write the question number(s) if applicable.

QUESTION
NUMBER

Acknowledgements

Material from the following sources has been adapted for use in this assessment:

Question One

- Page 2: Honey bee, <https://www.publicdomainpictures.net/en/view-image.php?image=613380&picture=isolated-honey-bee-cutout>
- Page 4: Honey, <https://www.pexels.com/photo/close-up-photo-of-a-honey-dipper-5634210/>
- Page 4: Graph, <https://figure.nz/chart/WNZOpEoBKRYz4hBh-41hBBK14IE2epurA>
- Page 6: Beehive with syrup jar, <https://www.motherearthnews.com/homesteading-and-livestock/sugar-syrup-recipe-for-feeding-bees-zbcz1403/>

Question Two

- Page 7: Running shoe, <https://pxhere.com/en/photo/673672>
- Page 9: Sneakers, <https://stock.adobe.com/images/shoes/36437082>
- Page 11: Shoe views, created using generative AI

Question Three

- Page 12: Phone screen, created using generative AI
- Page 13: Barbecue, <https://sydbbqs.com.au/products/coleman-revolution-4-burner-bbq-with-side-burner-black-gloss>
- Page 13: Gas cylinder, <https://www.rawpixel.com/image/6552169/image-public-domain-illustrations-line-art>
- Page 14: Sign, <https://freerangestock.com/photos/136916/close-up-of-a-blank-wooden-framed-black-chalkboard.html>
- Page 15: Thermometer, https://www.alibaba.com/product-detail/Stainless-Steel-BBQ-Smoker-Grill-Thermometer_60693680366.html
- Page 16: Egg and potato salad, <https://zestforcooking.com/2021/08/05/potato-and-egg-salad/>
- Page 16: Notebook, <https://www.pickpik.com/notepad-booklet-paper-notebook-pad-text-121698>
- Page 17: Apple juice, <https://www.mustakshif.com/product/detail/9339687084944/woolworths-apple-juice-3l>
- Page 17: Apple, <https://commons.wikimedia.org/wiki/File:Honeycrisp-Apple.jpg>
- Page 17: Orange juice, <https://www.woolworths.com.au/shop/productdetails/59237/daily-juice-co-orange-juice-no-added-sugar>
- Page 17: Oranges, <https://commons.wikimedia.org/wiki/File:Orange-Fruit-Pieces.jpg>
- Page 17: Soft drink bottle, <https://liquid-library.co.nz/sprite-no-sugar-2-25l/>

Question Four

- Page 18: Jessica Ready, <https://www.nzherald.co.nz/sport/jessica-ready-breaks-barriers-in-x-games-womens-street-skateboarding/LVLQTLVP4JCDPPPWBYOSIROT2I/>
- Page 18: Skateboard, created using generative AI
- Page 19: Skateboarder, <https://www.pexels.com/photo/a-person-in-beige-pants-using-a-skateboard-on-the-street-10111724/>
- Page 19: Board decks and designs, created using generative AI

Question Five

- Page 22: Map, [https://commons.wikimedia.org/wiki/File:Map_of_New_Zealand_\(blank\).svg](https://commons.wikimedia.org/wiki/File:Map_of_New_Zealand_(blank).svg)
- Page 23: Golden kiwifruit display, created using generative AI
- Page 25: Kiwifruit sections, created using generative AI
- Page 26: Kiwifruit jars, created using generative AI

