

Hei whakaoti mā te ākonga

Te Tau Ākonga ā-Motu (NSN)

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Te Tau ā-Kura

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SUPERVISOR'S USE ONLY

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

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

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32406 TE WĀHANGA 3



Mana Tohu Mātauranga o Aotearoa
New Zealand Qualifications Authority

Te Whakamahinga Tātai, 2025

32406 Te whakahāngai i te pāngarau me te tauanga i
ngā tūāhua whānui o ia rā

Ngā whiwhinga: Tekau

TE WIKI TUARUA | TE 8–12 O HEPETEMA
2025

NGĀ HUA	
1	Te whakatakoto i ētahi ara o te pāngarau me te tauanga hei whakaoti panga i ngā tūāhua whānui o ia rā.
2	Te whakamahi i te pāngarau me te tauanga kia ea ai te taha ki te whakamahinga tātai o roto i ngā tūāhua whānui o ia rā.
3	Te whakamārama i ngā urupare ā-pāngarau, ā-tauanga hoki ki ngā tūāhua.

Tuhia tō Tau Ākonga ā-Motu (NSN) me tō Tau ā-Kura ki te wāhi e wātea ana ki runga.

Me whakamātau koe i ngā tūmahi KATOA kei roto i tēnei pukapuka.

Ki te 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 2–51 kei roto i tēnei pukapuka, ka mutu, kāore tētahi o aua whārangi i te takoto kau.

Kaua e tuhi kōrero ki ngā tapa (////). Ka poroa taua wāhi ka mākahia ana te pukapuka.

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

TE TŪMAHI TUATAHI: He Kiriata

Kua whakaraupapahia ngā kiriata i tēnei tūtohi i runga i te nui o te moni i hua mai.

Te tūnga	Te kiriata	Te moni i hua mai
1	Tides of Aotearoa	\$1,629,000,000
2	Operation Sun Fall	\$1,239,000,000
3	Karate Keas	\$852,005,000
4	Lizardfire: The Final Showdown	\$750,000,000
5	Rebellion on Mars	\$711,800,000

Ka hua mai te \$1.108 piriona i a *The Phantom of Fiordland*.

(a) Ki te āpitihia te kiriata ki te tūtohi o runga, ko te aha tana tūnga?

Kōwhiria (✓) te tūnga tika.

- (i) ☐ 1
- (ii) ☐ 2
- (iii) ☐ 3
- (iv) ☐ 4
- (v) ☐ 5



QUESTION ONE: Movies

This table ranks movies by how much money they made.

Rank	Movie	Money made
1	Tides of Aotearoa	\$1,629,000,000
2	Operation Sun Fall	\$1,239,000,000
3	Karate Keas	\$852,005,000
4	Lizardfire: The Final Showdown	\$750,000,000
5	Rebellion on Mars	\$711,800,000

The Phantom of Fiordland makes \$1.108 billion.

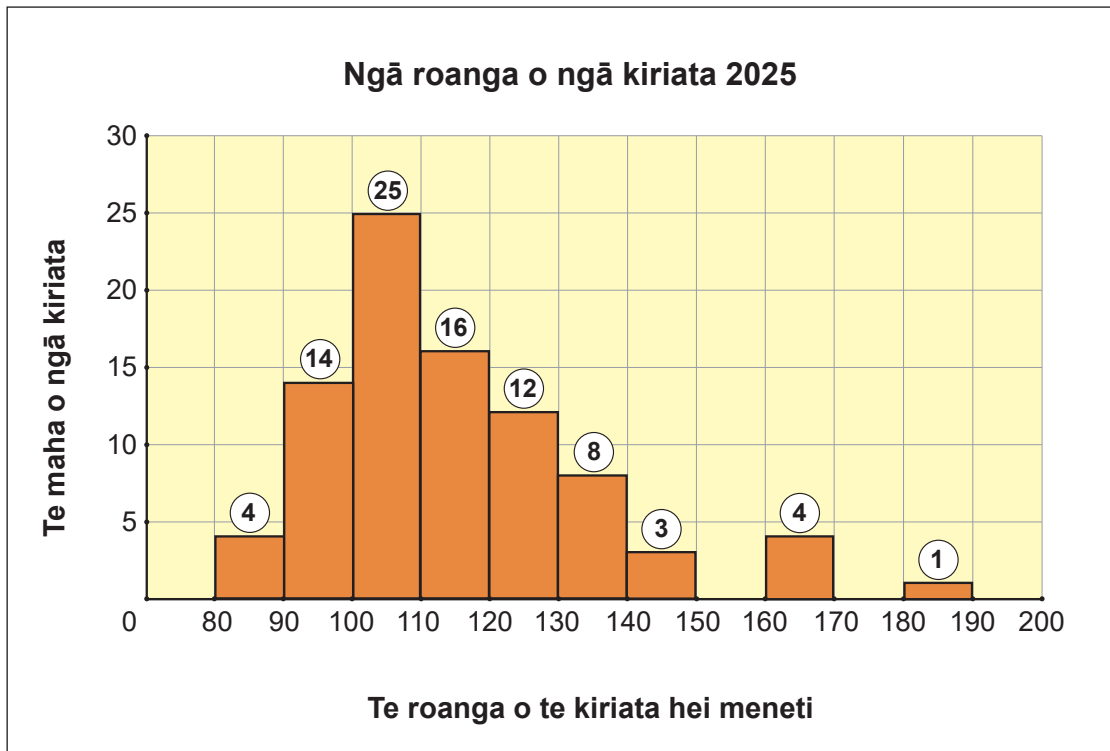
- (a) If the movie is added to the table above, what rank will it be?

Select (✓) the correct rank.

- (i) ☐ 1
- (ii) ☐ 2
- (iii) ☐ 3
- (iv) ☐ 4
- (v) ☐ 5



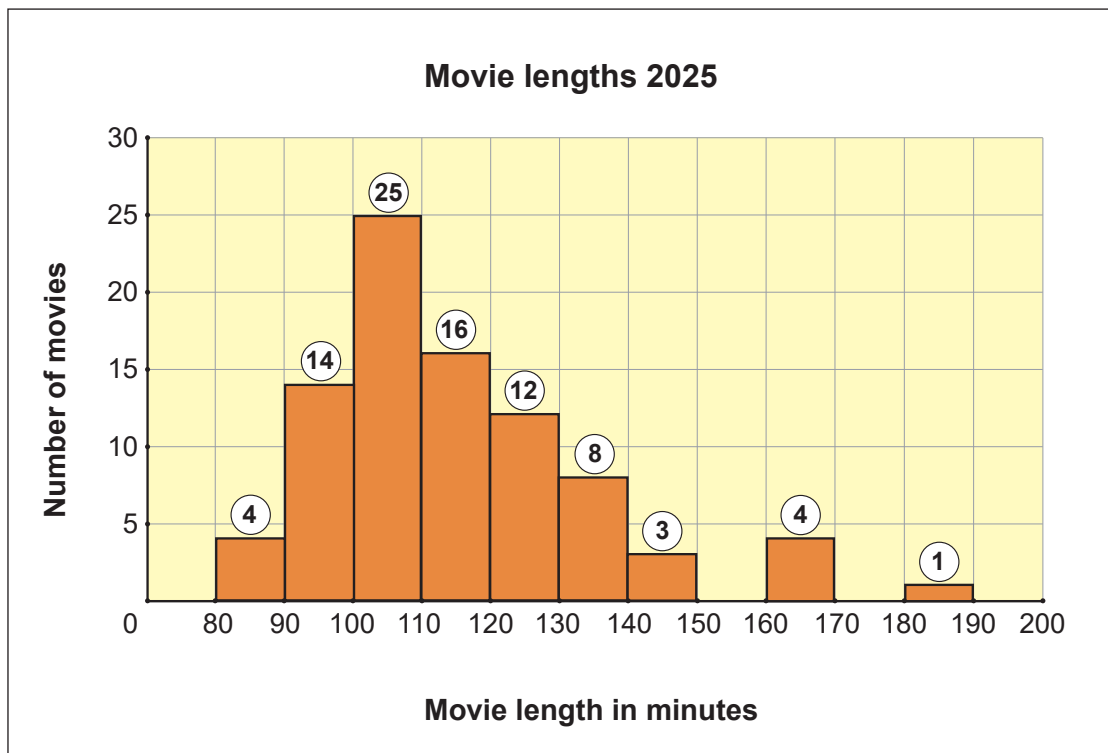
E whakaatuhia ana i te kauwhata nei ngā roanga o ngā kiriata i te tau 2025.



E ai ki tētahi maheni, ko tōna 20% o ngā kiriata e **87** kei te 130 meneti te roa, kei te roa ake rānei.

- (b) E tika ana tā te maheni? Whakamahia ngā nama i te kauwhata hei whakamahuki i tō whakautu.

This graph shows movie lengths in 2025.



A magazine says about 20% of the **87** movies are 130 minutes long or longer.

(b) Is the magazine correct? Use numbers from the graph to explain your answer.

E hiahia ana koe ki te mātaki i a *The Phantom of Fiordland*.



The Phantom of Fiordland

PG 103 meneti

Te wā tīmata		
3:50 p.m.	5:55 p.m.	8:20 p.m.

Ka tīmata hei te 3:50 p.m., ā, ka 103 meneti tōna roa.

(c) Āhea te kiriata mutu ai?

 p.m.

E \$91 te tapeke o te utu o ngā tīkiti kiriata mā ngā pakeke e rua, mā te ākonga kotahi me te tamaiti kotahi.

Ki te utu koe i te \$10 kia noho ai koe hei mema mō CinemaAotearoa, ka 20% te hekenga utu i ngā momo tīkiti katoa.

(d) E hia te moni ka penapenahia i aua tīkiti ki te utua e koe te noho hei mema?

(Kei wareware ki te tāpiri i te \$10 hei utu i te noho hei mema.)

\$

CinemaAotearoa

Ngā utu o ngā tīkiti	
\$25.00	Te pakeke
\$21.50	Te ākonga (whai kāri tautohu)
\$19.50	Te tamaiti (14 tau, he rangatahi iho rānei)

You want to see the movie *The Phantom of Fiordland*.



The Phantom of Fiordland

PG

103 min

Start times		
3:50 p.m.	5:55 p.m.	8:20 p.m.

It starts at 3:50 p.m. and lasts 103 minutes.

- (c) What time will it end?

 p.m.

Movie tickets for two adults, one student, and one child will cost you \$91 in total.

If you pay \$10 to get a CinemaAotearoa membership, you will get 20% off all ticket prices.

- (d) How much will you save on the tickets if you get a membership?

(Don't forget to include the \$10 cost of membership.)

\$

CinemaAotearoa

Ticket prices

\$25.00	Adult
\$21.50	Student (with ID)
\$19.50	Child (14 & under)

E hiahia ana koe ki te hoko i te kānga pāhūhū rahi kotahi, i ngā inu rahi e rua, me te aihikirīmi kotahi.

Ngā utu o ngā timotimo

	He iti	He āhua rahi	He rahi
He kānga pāhūhū	\$10	\$11	\$12
He inu	\$8	\$9	\$10
He aihikirīmi	E \$7 mō te mea kotahi		

Kotahi te kānga pāhūhū rahi
me ngā inu rahi e rua

- (e) E iti iho ana rānei te utu o te huinga me te aihikirīmi kotahi hei āpitihanga, e iti iho ana rānei te utu i ngā utu takitahi o tēnā, o tēnā o ngā timotimo? Whakamahukitia tō whakautu mā te whakamahi i ngā taipitopito o runga ake nei.

Anei ngā korahi o tētahi pouaka kānga pāhūhū.

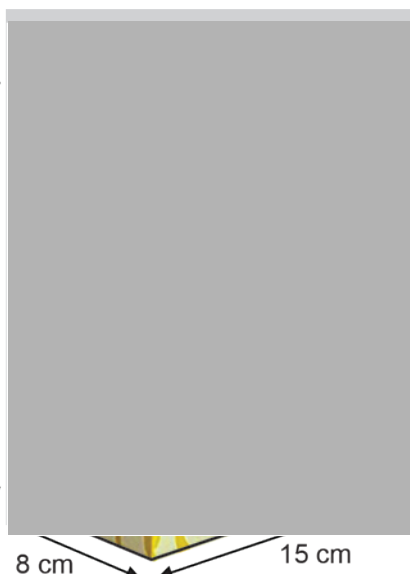
- (f) E hia rita ka noho ki te pouaka?

Kia hiwa: $1 \text{ rita} = 1000 \text{ cm}^3$



rita (L)

25 cm



You want to buy one large popcorn, two large drinks, and one ice cream.

Snack prices

	Small	Medium	Large
Popcorn	\$10	\$11	\$12
Drink	\$8	\$9	\$10
Ice cream	\$7 each		

Large popcorn, 2 large drinks

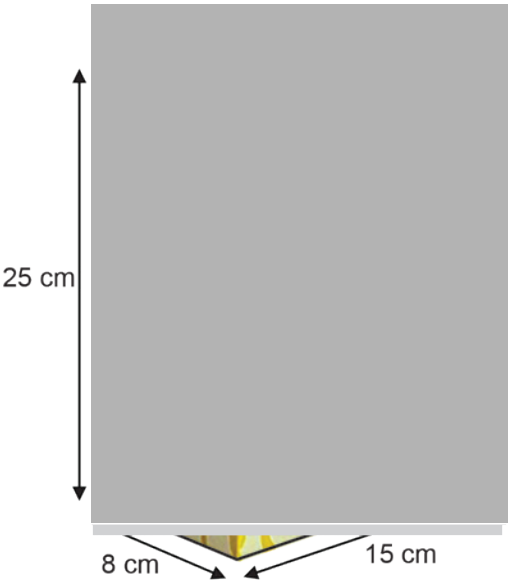
Combo \$29.40

(e) Is it cheaper to buy the combo with the ice cream added, or pay the usual snack prices? Explain your answer, using the information above.

Here are the dimensions of a popcorn box.

(f) How many litres does the box hold?

Note: 1 litre = 1000 cm³



TE TŪMAHI TUARUA: Te hauora

E 206 ngā kōiwi kei te tinana o te tangata.

Kitea ai tōna 12% o ngā kōiwi katoa i ngā rara.

(a) E hia katoa ngā kōiwi rara?

ngā kōiwi rara

**This section is deliberately blank.
The assessment continues on page 12.**

QUESTION TWO: Health

There are 206 bones in the human body.

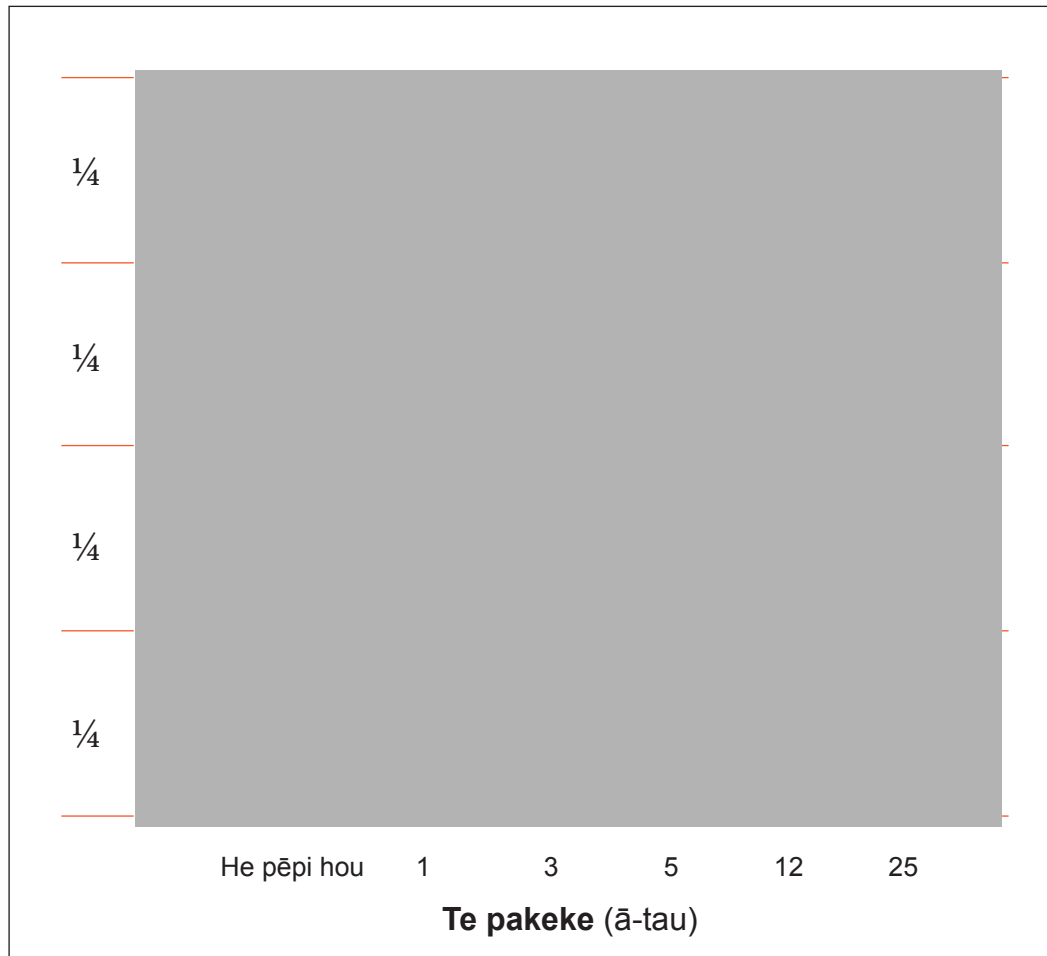
About 12% of all the bones are found in the rib cage.

(a) How many rib bones are there?

rib bones

This section is deliberately blank.
The assessment continues on page 13.

E whakaatuhia ana i tēnei hoahoa te iti haere ake o te hautau o te upoko ki te tāroaroa, i te tangata ka pakeke haere. Kotahi hauwhā te hautau o te upoko o te pēpi, kotahi tau tōna pakeke, ki tōna tāroaroa.



(b) Ko te aha te hautau o te upoko o te **pēpi hou** ki tōna tāroaroa?

Kōwhiria (✓) te hautau tika.

(i) ☐ $\frac{1}{4}$

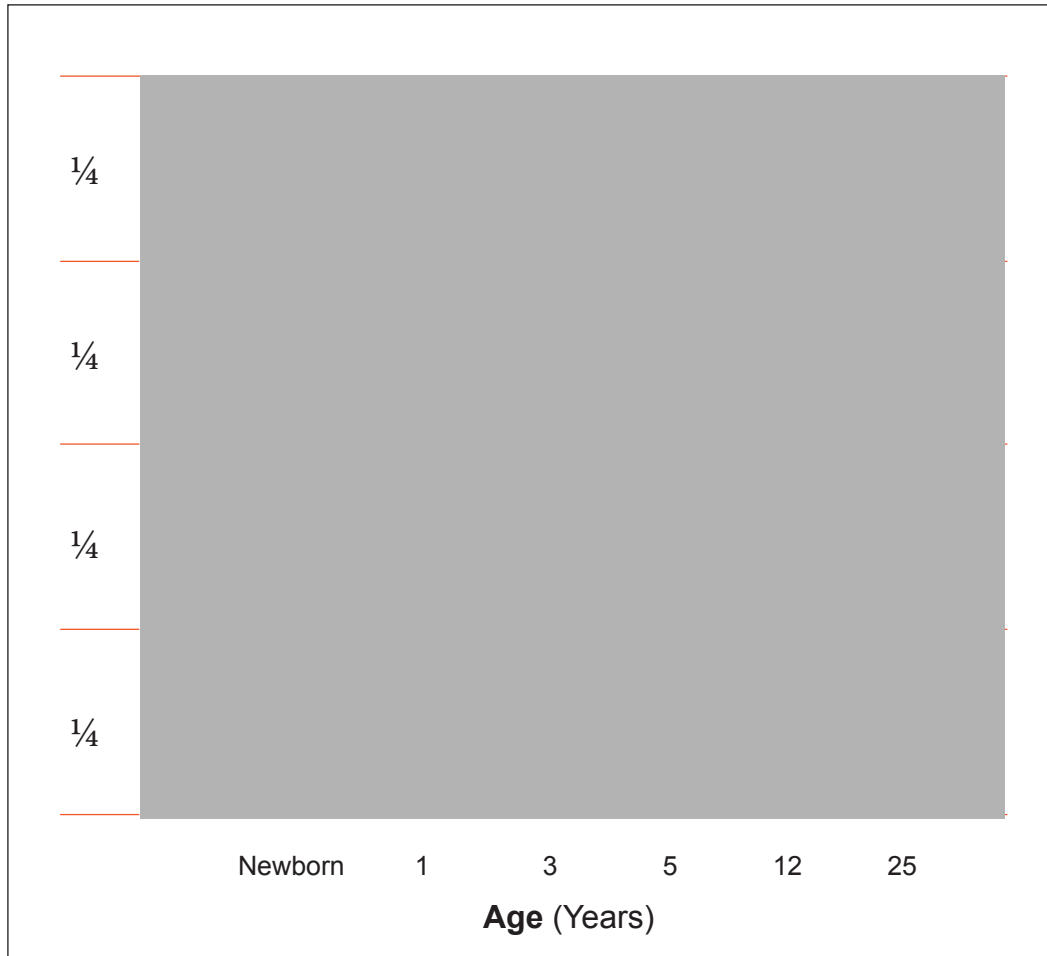
(ii) ☐ $\frac{1}{3}$

(iii) ☐ $\frac{3}{5}$

(iv) ☐ $\frac{4}{5}$

(v) ☐ $\frac{1}{2}$

This diagram shows that as people grow up, their head becomes a smaller fraction of their total height. A one-year-old's head is one quarter of how tall they are.



(b) What fraction of a **newborn** baby's height is their head?

Select (✓) the correct fraction.

(i) ☐ $\frac{1}{4}$

(ii) ☐ $\frac{1}{3}$

(iii) ☐ $\frac{3}{5}$

(iv) ☐ $\frac{4}{5}$

(v) ☐ $\frac{1}{2}$

E \$2,760 te utu o te Whakahihiko Manawa ā-Waho e Aunoa ana (AED).

(c) E hia tana utu ki te 30% te whakahekenga utu?

\$

I te wā o te Whakaora Manawa (CPR), me 100 ki te 120 ō pana i te poho o te tangata i ia meneti.

(d) He aha te nama **nui katoa** o ngā pana me oti i ngā meneti e 8?

ngā pana

An Automated External Defibrillator (AED) costs \$2,760.

- (c) How much would it cost with a 30% discount?

\$

During Cardiopulmonary Resuscitation (CPR), you need to push on the person's chest at a rate of 100 to 120 times per minute.

- (d) What is the **greatest** number of pushes you should do in 8 minutes?

pushes

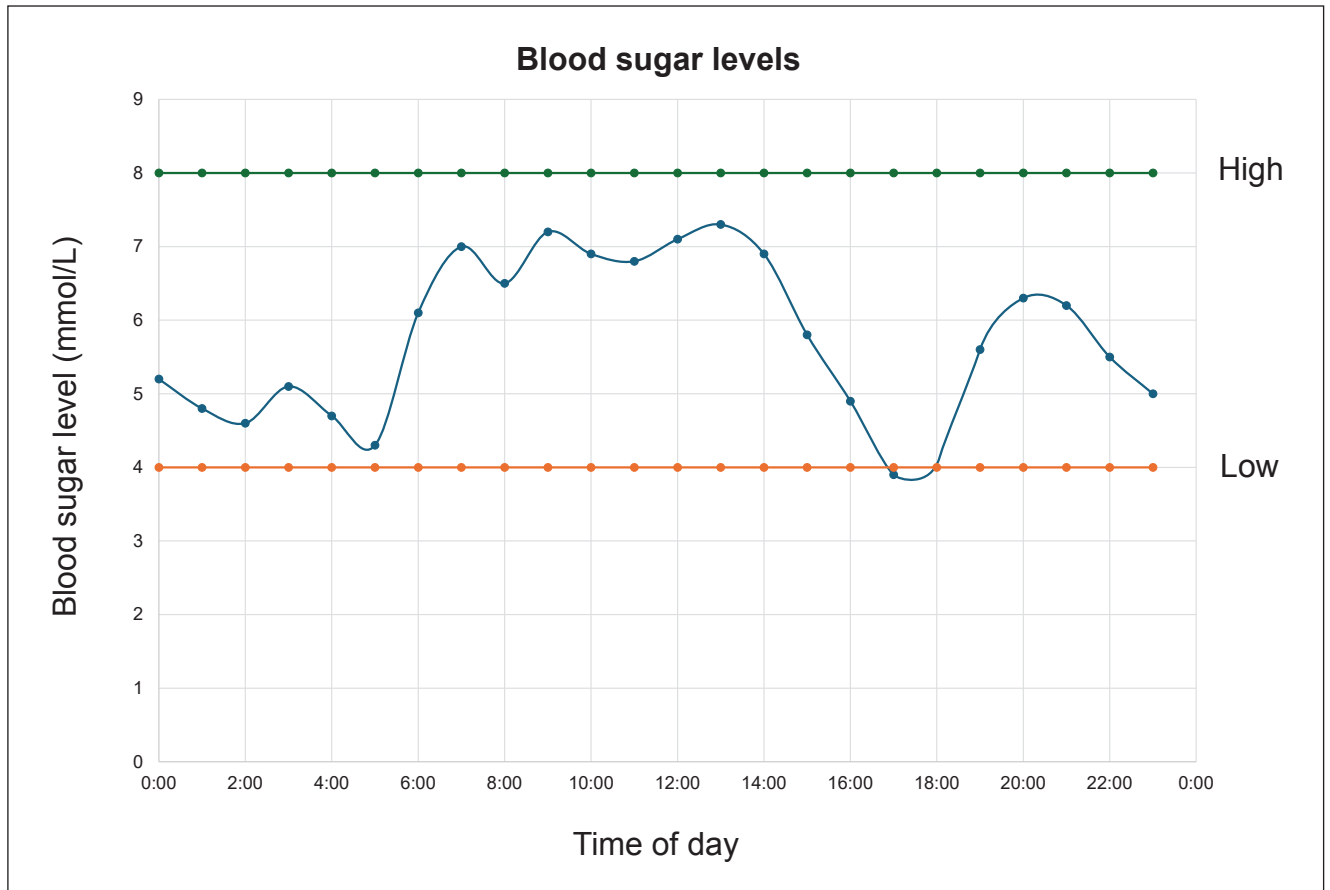
E whakaatuhia ana i te kauwhata o raro nei ngā pae hukatoto o tētahi tangata.



I oma tēnei tangata mō te haora kotahi, ā, i **tīmata** i te 6:00 a.m.

- (e) Nā te oma i piki ai te pae hukatoto? Whakamahia ngā nama mai i te kauwhata hei whakamahuki i tō whakautu.

The graph below shows a person's blood sugar levels.



This person went for a one-hour run, **starting** at 6:00 a.m.

- (e) Did the run cause their blood sugar level to rise? Use numbers from the graph to explain your answer.

I tētahi rangi paki i te raumati, ka tīkākā tō kiri i muri i te 12 meneti noa iho.

I tōna tikanga, ka **30** whakareanga te roa ake o tā te pani ārai hihirā, e 30+ tōna SPF, ārai i a koe i te tīkākā ki te auau tō whakamahi i te pani rā.

- (f) E hia **haora** te roa o te whitikina o te tangata e te rā mēnā e 30+ te SPF o te pani ārai hihirā kua pania ki tōna kiri, me te kore i tīkākā?

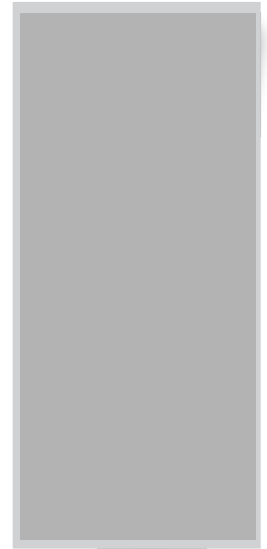
haora

On a sunny summer day, your skin can burn in just 12 minutes.

SPF 30+ sunscreen is meant to protect you from sunburn for **30** times longer if you use it regularly.

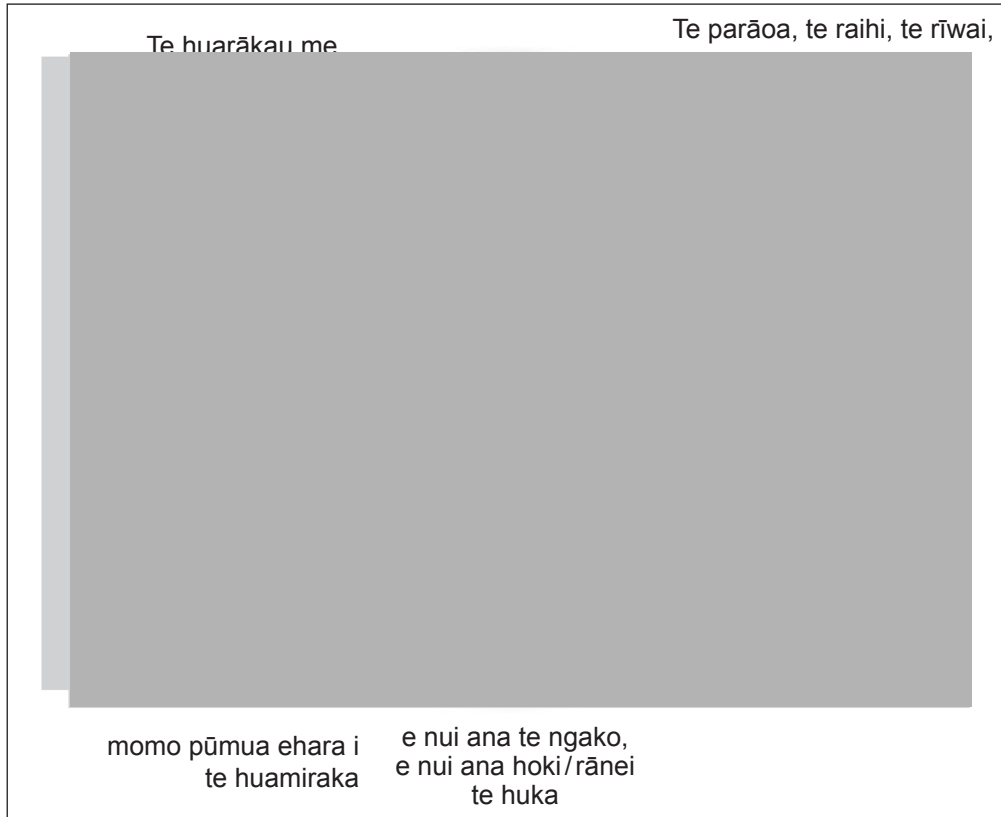
- (f) How many **hours** can a person be in the sun with SPF 30+ sunscreen on, without burning?

hours



TE TŪMAHI TUATORU: Te huawhenua

E whakaatuhia ana i te ata o raro nei ngā hautau o ia whakarōpūtanga kai me kai e koe i ia rā.



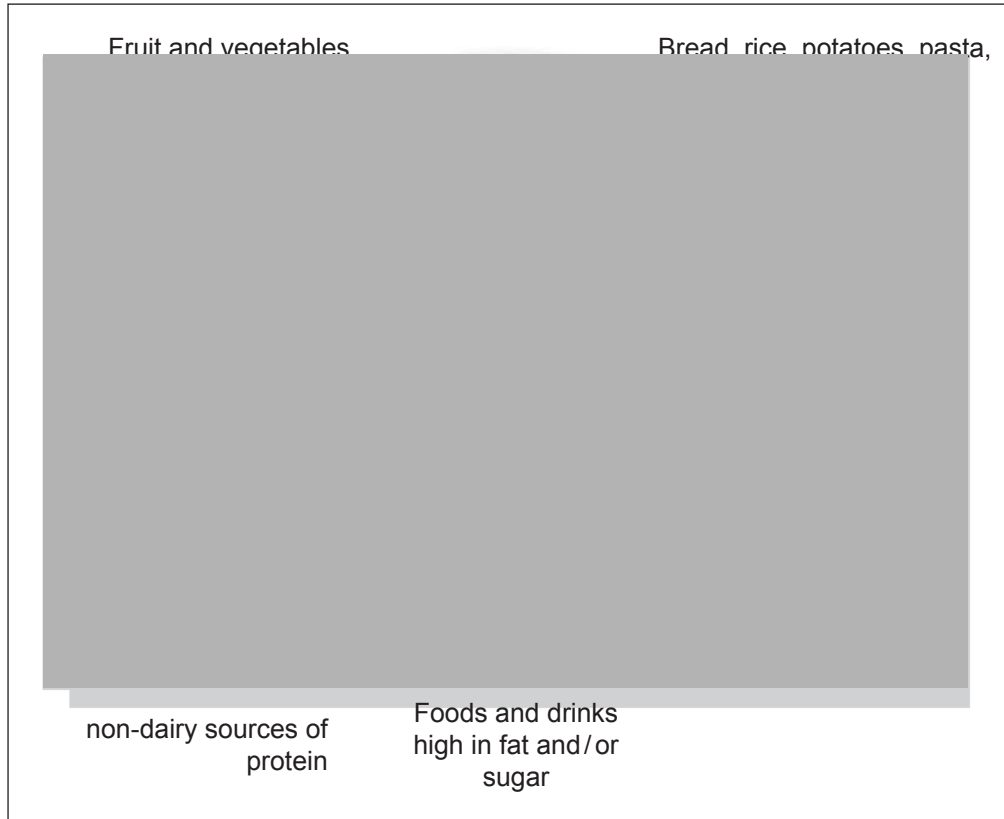
Me mātua kai koe i ngā tirikai e **rima** o te huarākau me te huawhenua i ia rā e hauora ai koe.

- (a) E hia te tapeke o ngā tirikai me kai e koe i ia rā, mai i tēnā, i tēnā o ngā whakarōpūtanga kai?

ngā tirikai

QUESTION THREE: Vegetables

The image below shows the fractions of each food group you should eat every day.

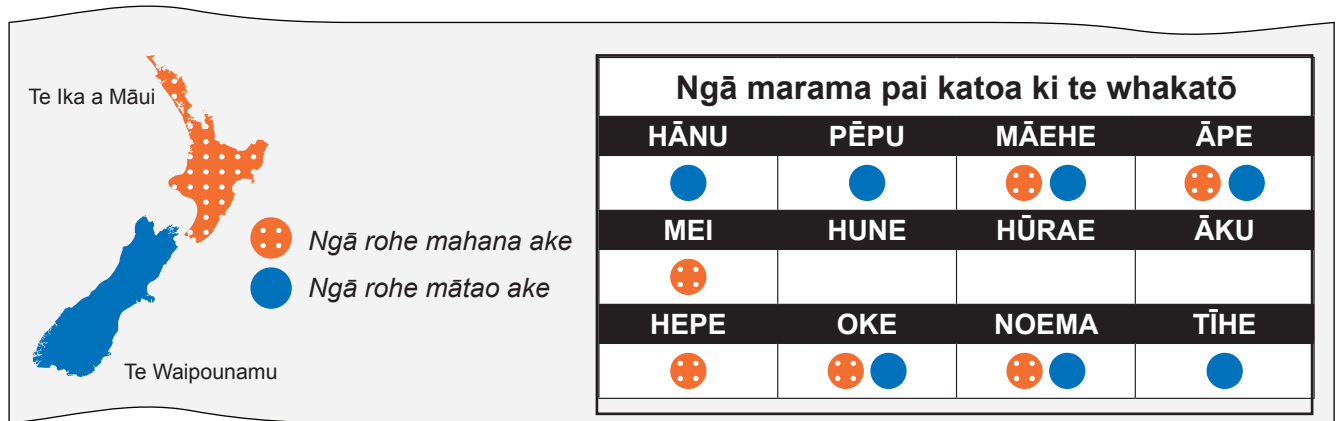


You need to eat **five** servings of fruit and vegetables every day to stay healthy.

- (a) How many servings, in total, should you eat each day from each of the food groups?

servings

Nō te wāhanga o muri o te pākete kano kāroti te ata o raro nei. E whakaatuhia ana ngā marama pai katoa ki te whakatō i ngā kano i ngā momo rohe o Aotearoa. Ka hoko koe i ngā kano kāroti i a **Hune**.

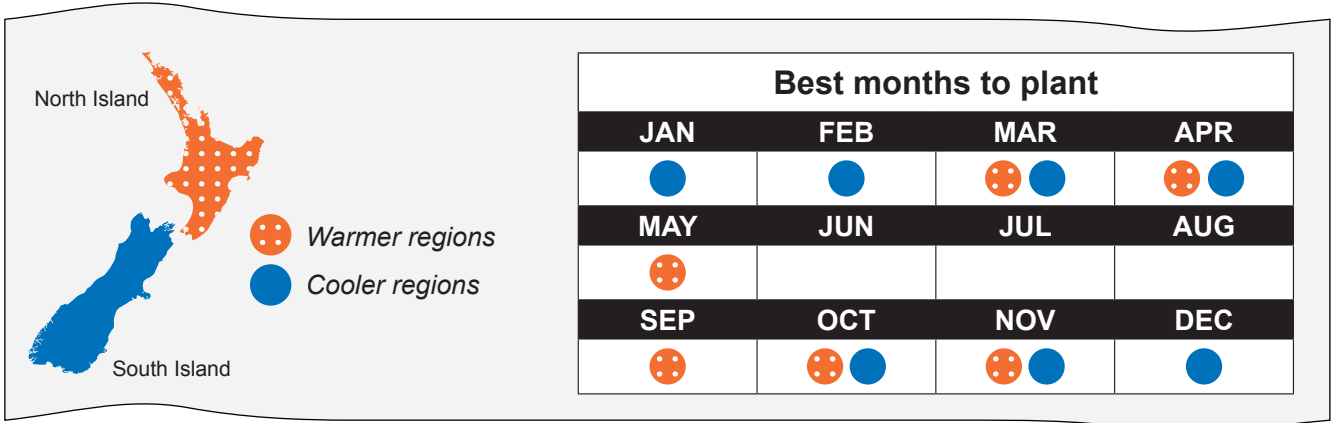


- (b) Ko te aha te marama tōmua katoa i muri i te hokonga me whakatō e koe ngā kano kāroti i Te Ika a Māui?

Kōwhiria (✓) te marama tika

- (i) ☐ HŪRAE
- (ii) ☐ ĀKU
- (iii) ☐ HEPE
- (iv) ☐ OKE
- (v) ☐ NOEMA

The image below is from the back of a packet of carrot seeds. It shows the best months to plant the seeds in the different regions of New Zealand.



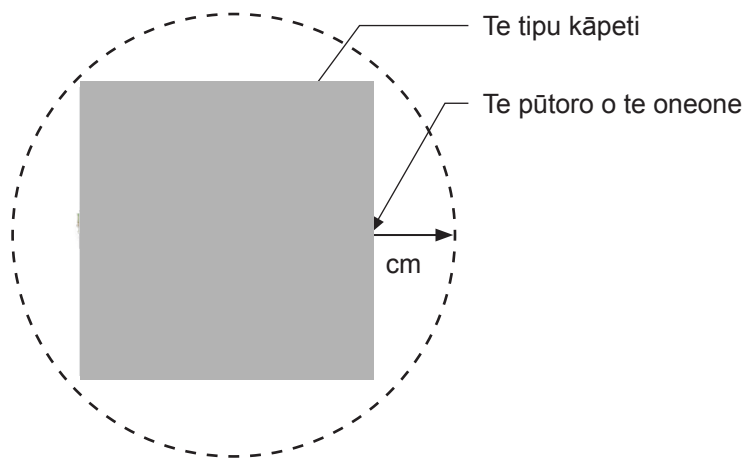
You buy the carrot seeds in **June**.

- (b) What is the earliest month after buying that you should plant the carrot seeds in the North Island?

Select (✓) the correct month.

- (i) ☐ JUL
- (ii) ☐ AUG
- (iii) ☐ SEP
- (iv) ☐ OCT
- (v) ☐ NOV

Tipu pai ai te kāpeti mēnā he oneone e karapoti ana i ia tipu, tōna 25 henemita nei te pūtoro.



E 2 mita mā te 4.5 mita te rahi o tētahi mārā, he tapawhā roa tana āhua.

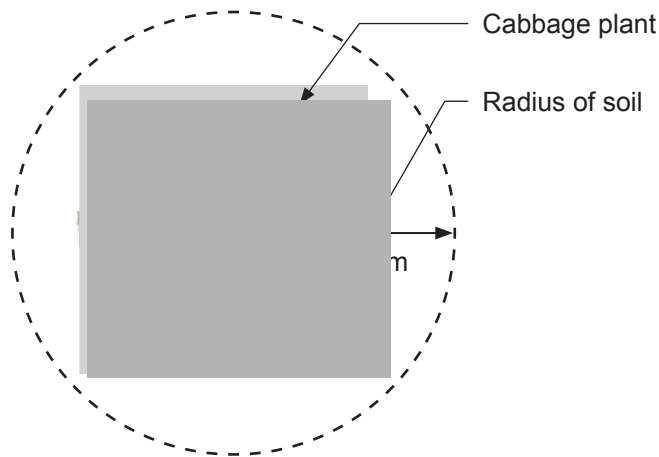


(c) E hia katoa ngā kāpeti ka whakatōkia ki te mārā kia pai ai te tipu?



ngā kāpeti

Cabbages grow well when they have their own circle of soil with a radius of about 25 centimetres.



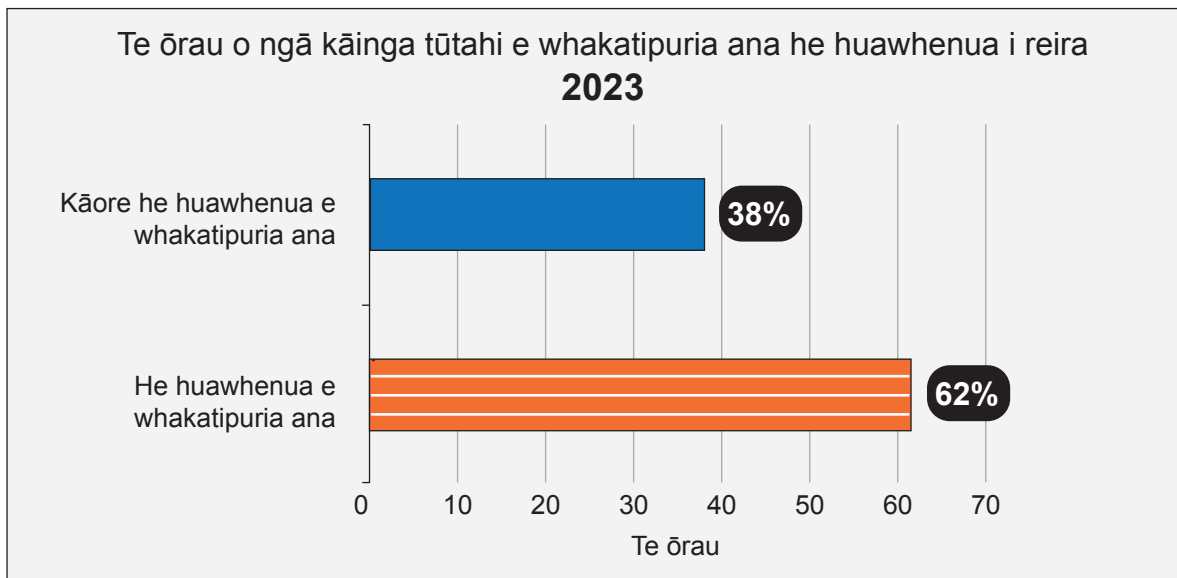
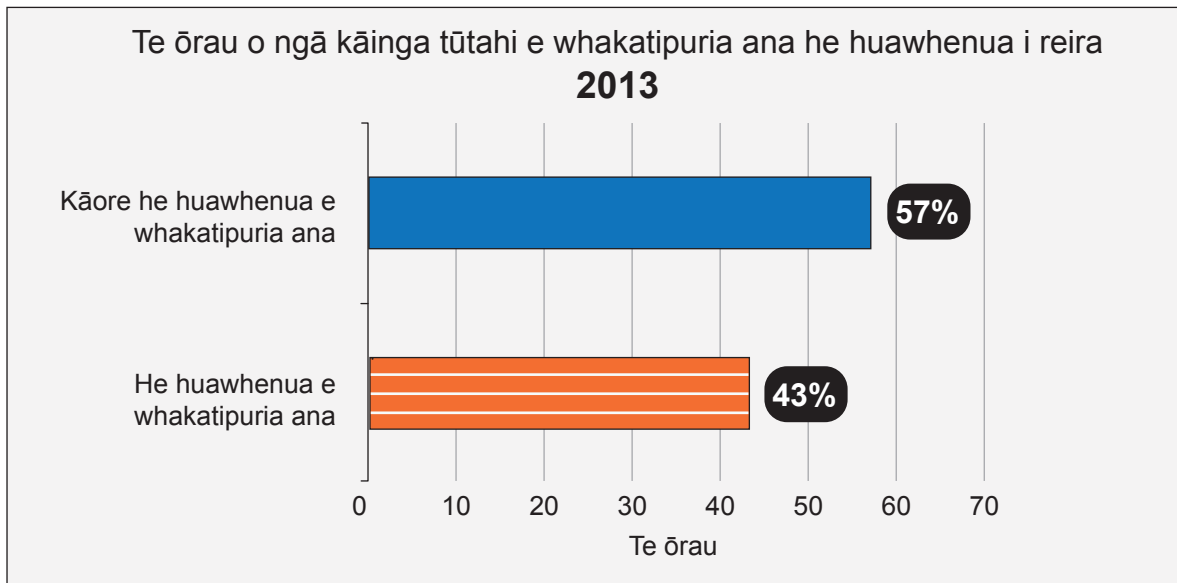
A rectangle-shaped garden measures 2 metres by 4.5 metres.



- (c) What is the greatest number of cabbages that can be planted in the garden, so that they grow well?

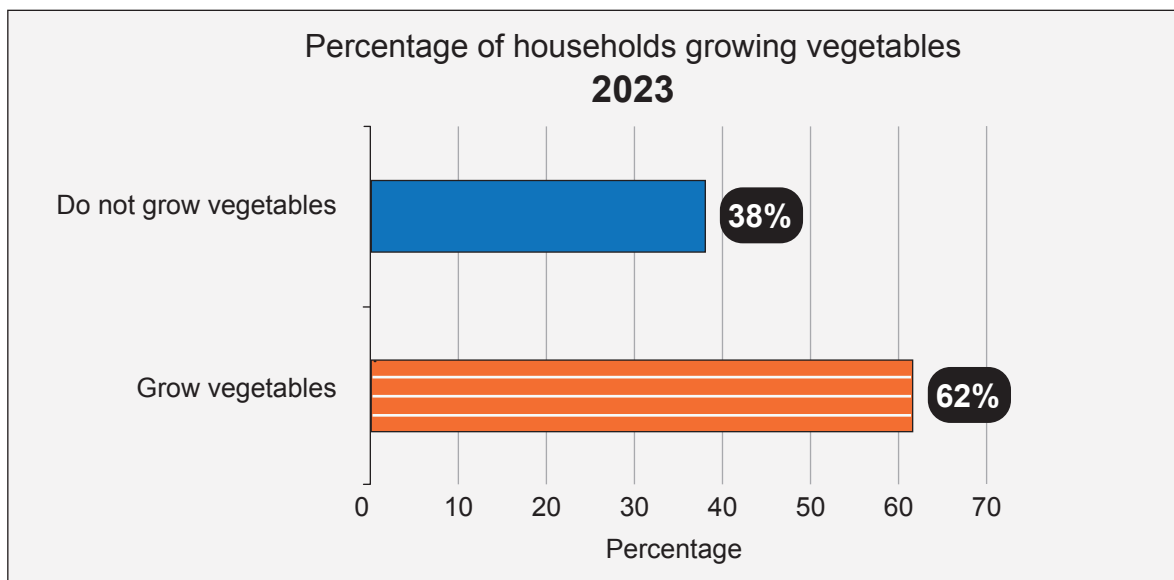
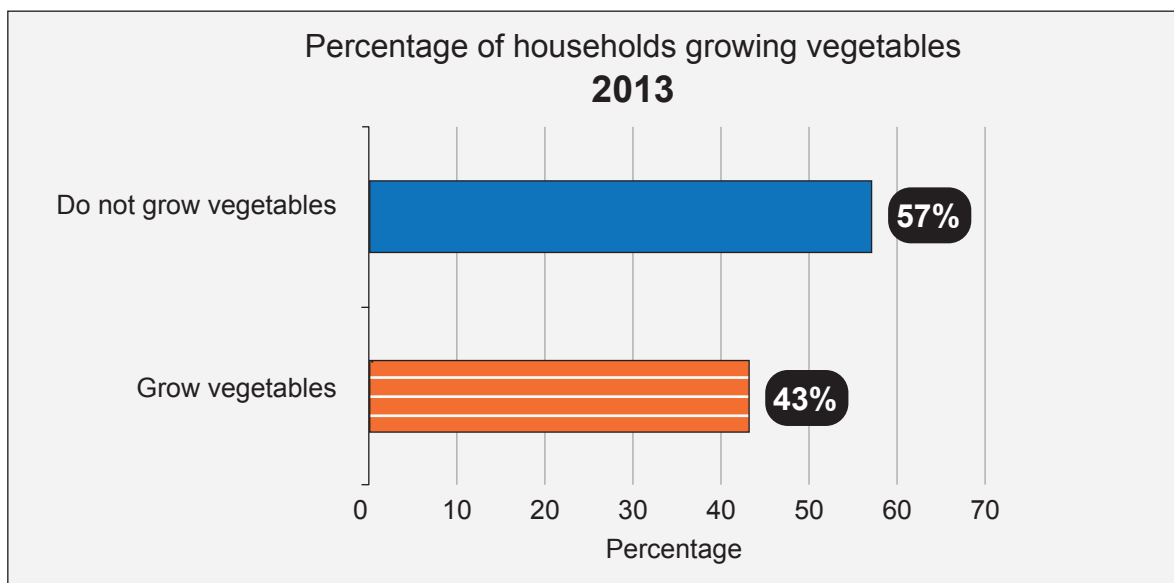
cabbages

E whakaatuhia ana i ngā kauwhata o raro nei te ōrau o ngā kāinga tūtahi i Aotearoa i whakatipuria ai he huawhenua i reira i te tau 2013 me te 2023.



- (d) Kōwhiria (✓) **tētahi** tauākī e **tika ana te whakamahinga** o ngā taipitopito mai i ngā kauwhata.
- (i) ☐ He ruarua iho ngā huawhenua i kaingia rā i ngā kāinga tūtahi i te tau 2013 tēnā i ērā o te tau 2023.
 - (ii) ☐ I whakatipuria he huawhenua i tōna toru o ia rima kāinga tūtahi i te tau 2023.
 - (iii) ☐ I roto i ngā tau tekau, e 62% te pikinga o ngā kāinga tūtahi e whakatipuria ana he huawhenua i reira.
 - (iv) ☐ He ruarua iho ngā kāinga tūtahi i whakatipuria rā he huawhenua i reira, i te tau 2023 tēnā i ērā o te tau 2013.

The graphs below show the percentage of households in New Zealand that grew vegetables in 2013 and 2023.



(d) Select (✓) **one** statement that **correctly** uses information from the graphs.

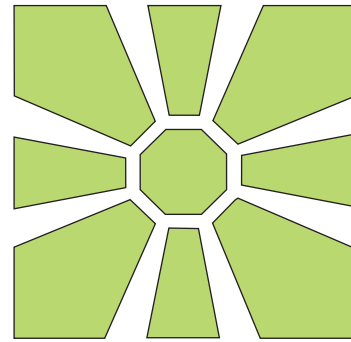
- (i) ☐ Households ate less vegetables in 2013 than in 2023.
- (ii) ☐ About three in every five households grew vegetables in 2023.
- (iii) ☐ Within 10 years, there was a 62% increase in households growing vegetables.
- (iv) ☐ Fewer households grew vegetables in 2023 than in 2013.

E whakaatuhia ana i tēnei ata tētahi hoahoa mō tētahi māra huawhenua.

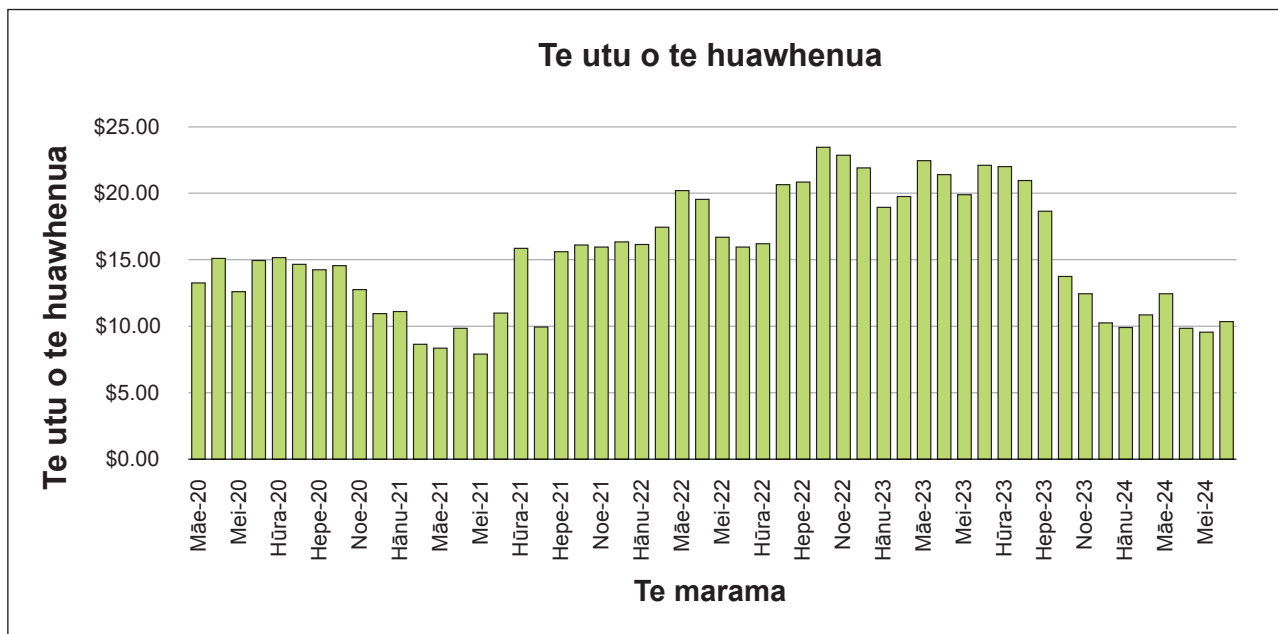
(e) E hia ngā rārangi hangarite o te hoahoa nei?



ngā rārangi hangarite



E whakaatuhia ana i tēnei kauwhata te āhua o te panoni haeretanga o te utu o te huawhenua i roto i te wā.



Ka panoni haere te utu o te huawhenua i Aotearoa i te roanga o te tau i runga i te āhua o te huarere.

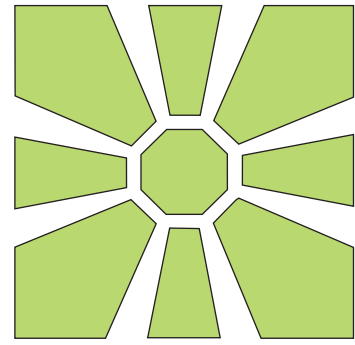
Ko tā tētahi pōhi ā-ipurangi, “I te nuinga o te wā e iti katoa ana te utu o te huawhenua i a Mei.”

(f) Kei te tika te upoko kōrero? Whakamahia ngā marama me ngā utu mai i te kauwhata hei whakamahuki i tō whakautu.

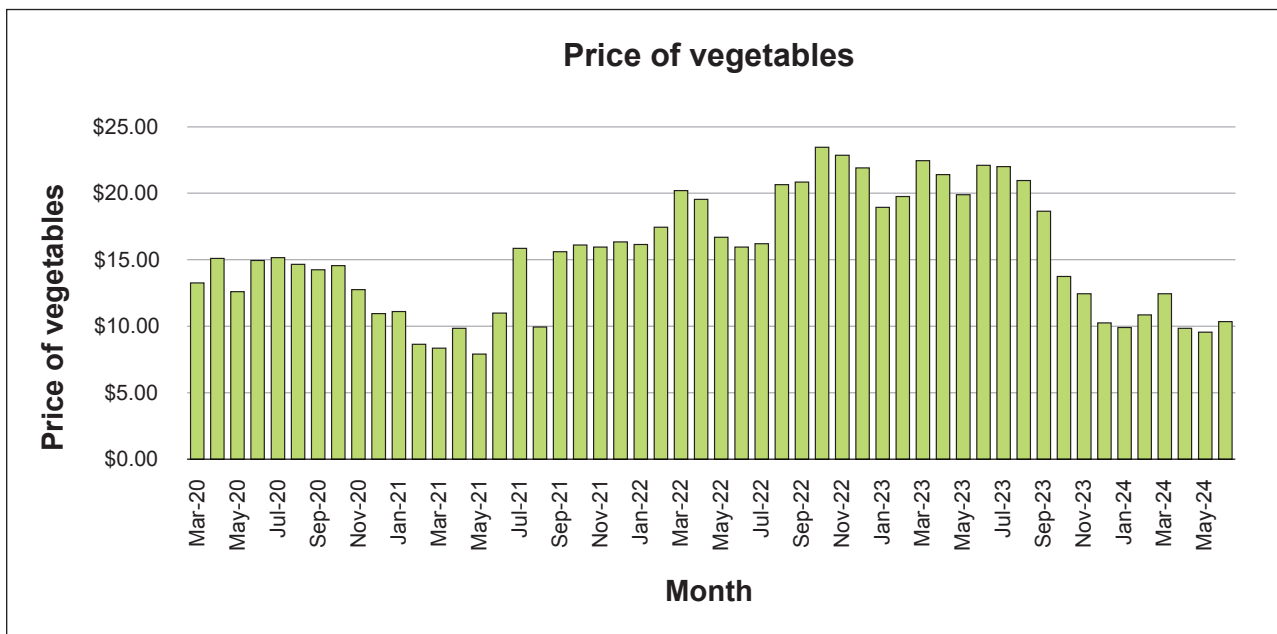
This image shows a design for a vegetable garden.

- (e) How many lines of symmetry does this design have?

lines of symmetry



This graph shows how the price of vegetables has changed over time.



The price of vegetables in New Zealand changes during the year, depending on the weather.

An online post reads, “Vegetable prices are usually lowest in May.”

- (f) Is the headline correct? Use months and prices from the graph to explain your answer.

TE TŪMAHI TUAWHĀ: Te e-scooter

E taea ana te hoko te *e-scooter* mā te utu i te utu ā-moni, mā te utu harangote rānei i roto i te 18 marama.

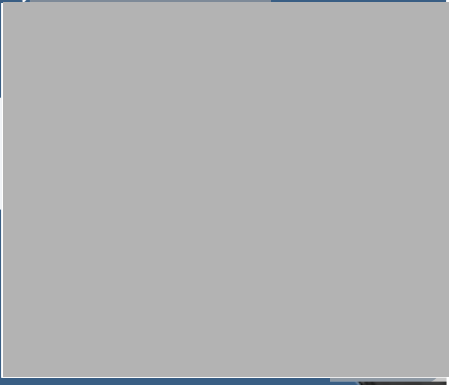
E-SCOOTER

Te utu ā-moni \$1,449

Te rautaki 18 m

RĀNEI

Utua te \$300 ināian utu harangote e tori ia ono marama.



- (a) E hia tāra **atu anō** te utu hei whai i te rautaki 18 marama tēnā i te utu i te utu ā-moni?

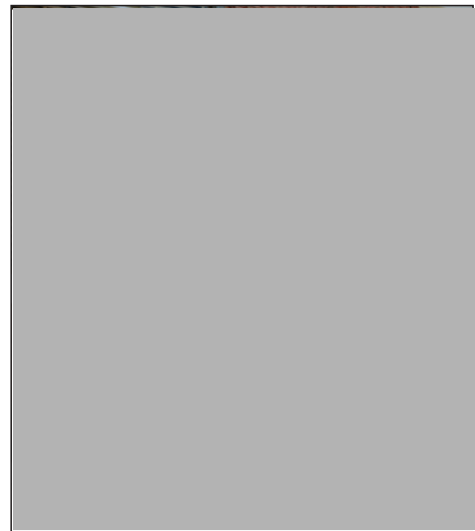
\$

E 36 heneti te utu i te meneti me te \$1.20 hei utu rīhi e eke ai a Gina i tētahi *e-scooter*.

Ka eke ia i te *e-scooter* mō ngā meneti 18.

- (b) E hia te utu ka utua e Gina?

\$



QUESTION FOUR: E-scooters

An e-scooter can be bought by paying the cash price or by paying it off over 18 months.

E-SCOOTER

Cash price of \$1,400
OR
18-month plan

Pay \$300 now, and then 6-monthly payments

- (a) How much **more** does it cost to use the 18-month plan than paying the cash price?

\$

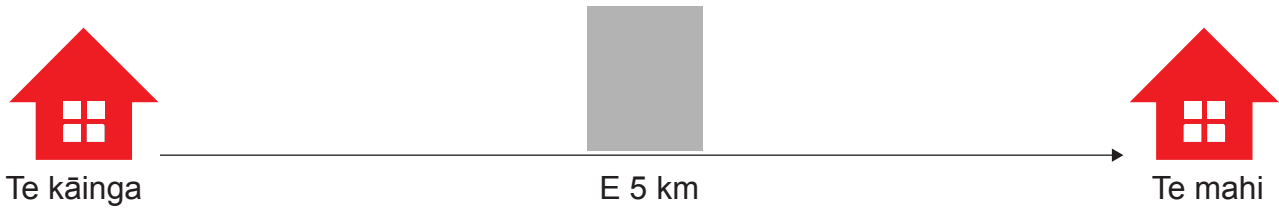
It costs 36 cents per minute plus \$1.20 hire fee for Gina to ride an e-scooter.

She rides the e-scooter for 18 minutes.

- (b) How much does Gina pay?

\$

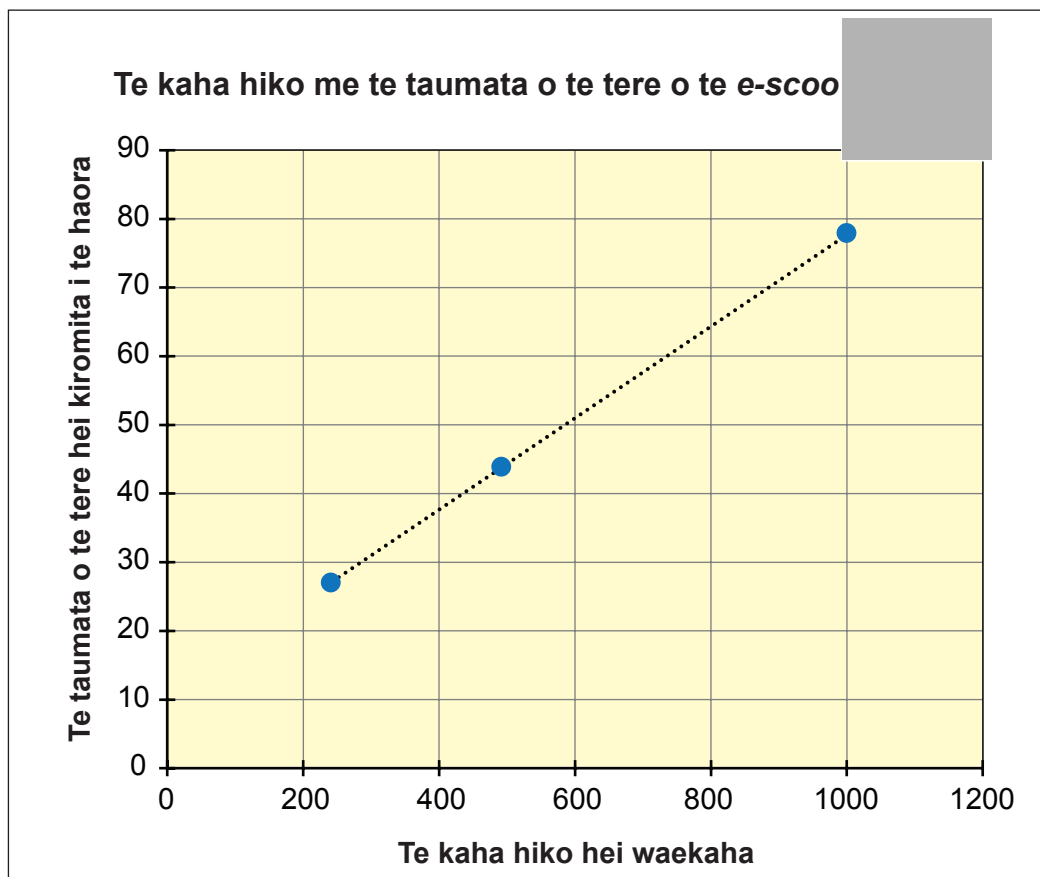
E 5 kiromita te roa o te haere a tētahi tangata mā runga *e-scooter*. E 20 kiromita i te haora te tere toharite o tana ekenga.



(c) Tōna hia **meneti** te roa o te haere?

meneti

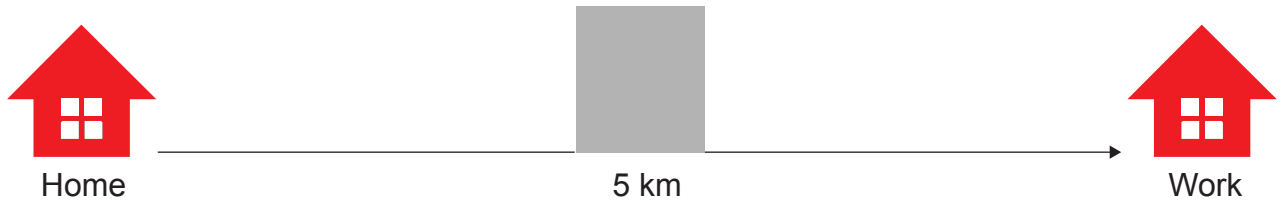
Kei raro nei tētahi kauwhata e whakaatu ana i te kaha hiko me te tere o te *e-scooter*.



(d) Whakamahia te kauwhata o runga nei hei whakatau tata i te taumata o te tere o tētahi *e-scooter* e 300 waekaha tana kaha hiko. Tuhia tō whakautu hei tauoti.

kiromita i te haora

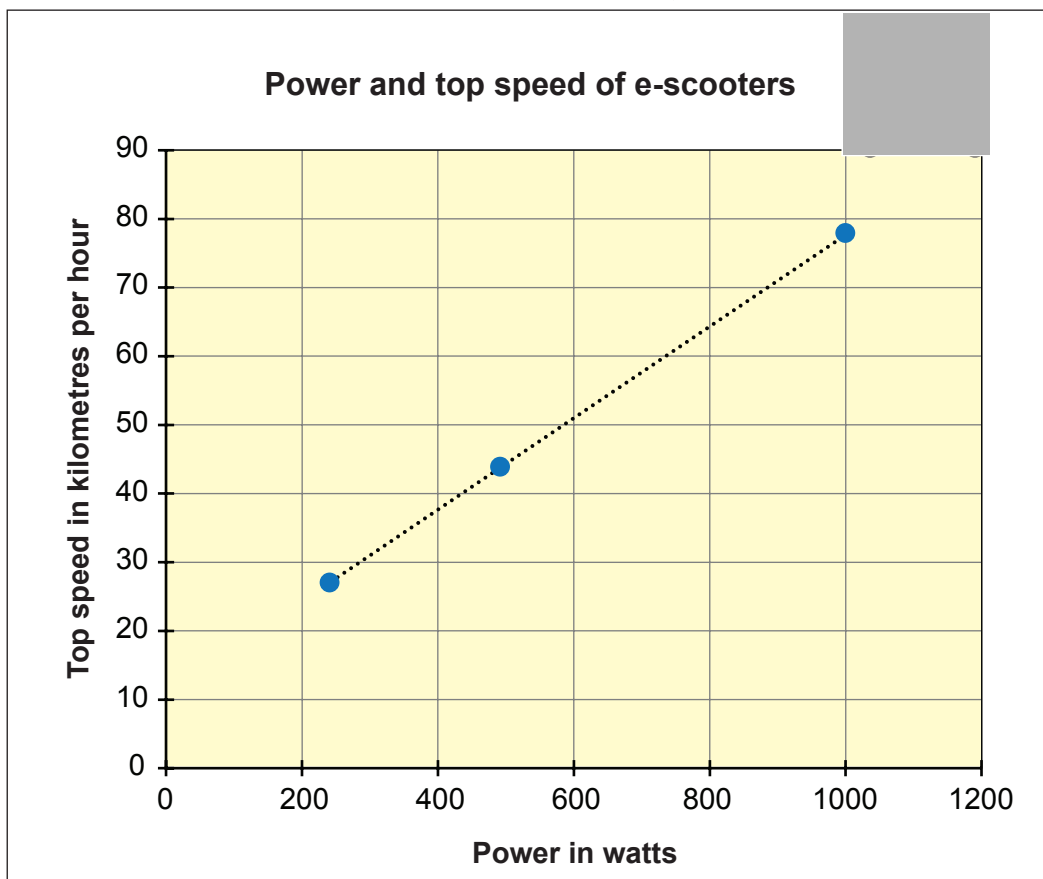
A person travels 5 kilometres on an e-scooter. They ride an average speed of 20 kilometres per hour.



(c) About how many **minutes** does the trip take?

minutes

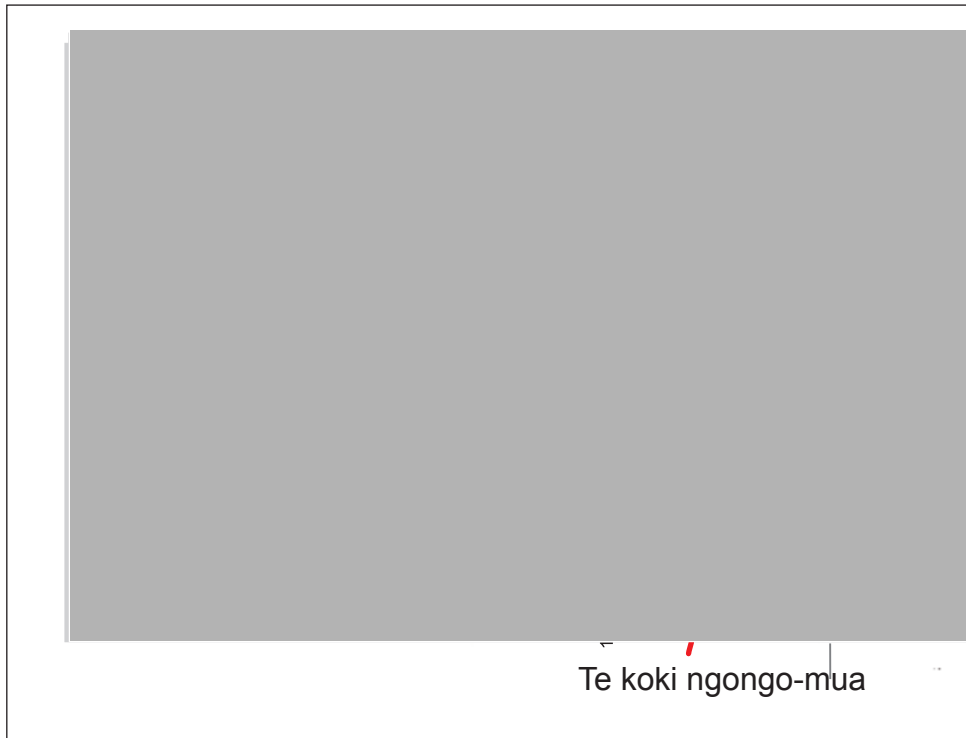
Below is a graph showing e-scooter power and speed.



(d) Use the graph above to estimate the top speed of an e-scooter that has **300** watts of power. Give your answer as a whole number.

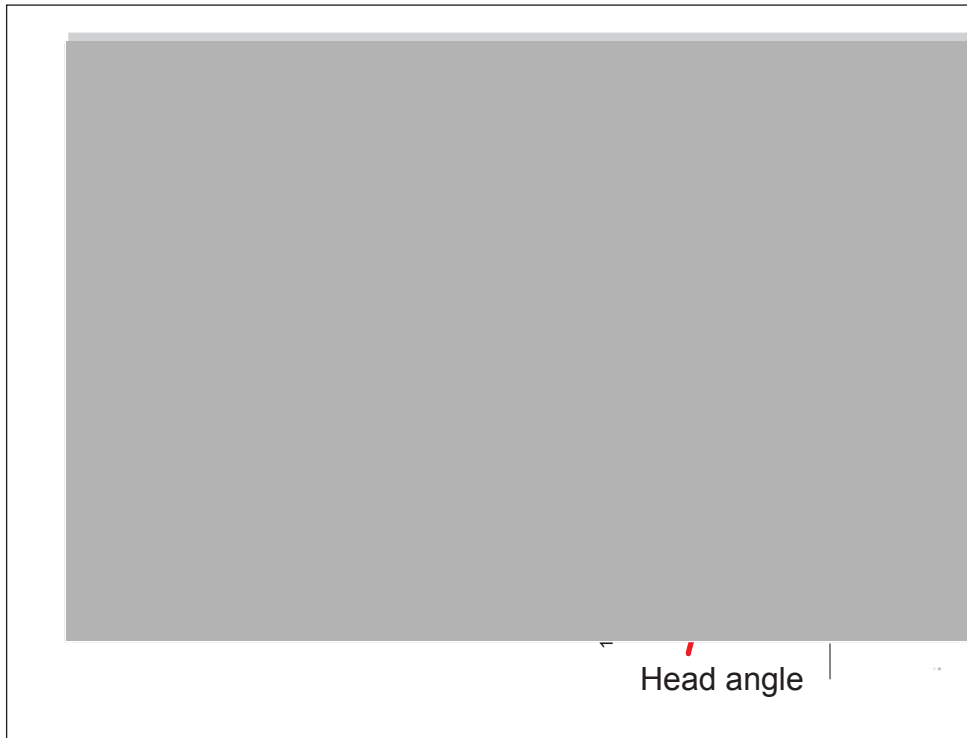
kilometres per hour

Anei tētahi hoahoa o te tirohanga ā-taha o tētahi *e-scooter*.



(e) Inea te koki ngongo-mua o te *e-scooter*. Tuhia tō whakautu hei tauoti.

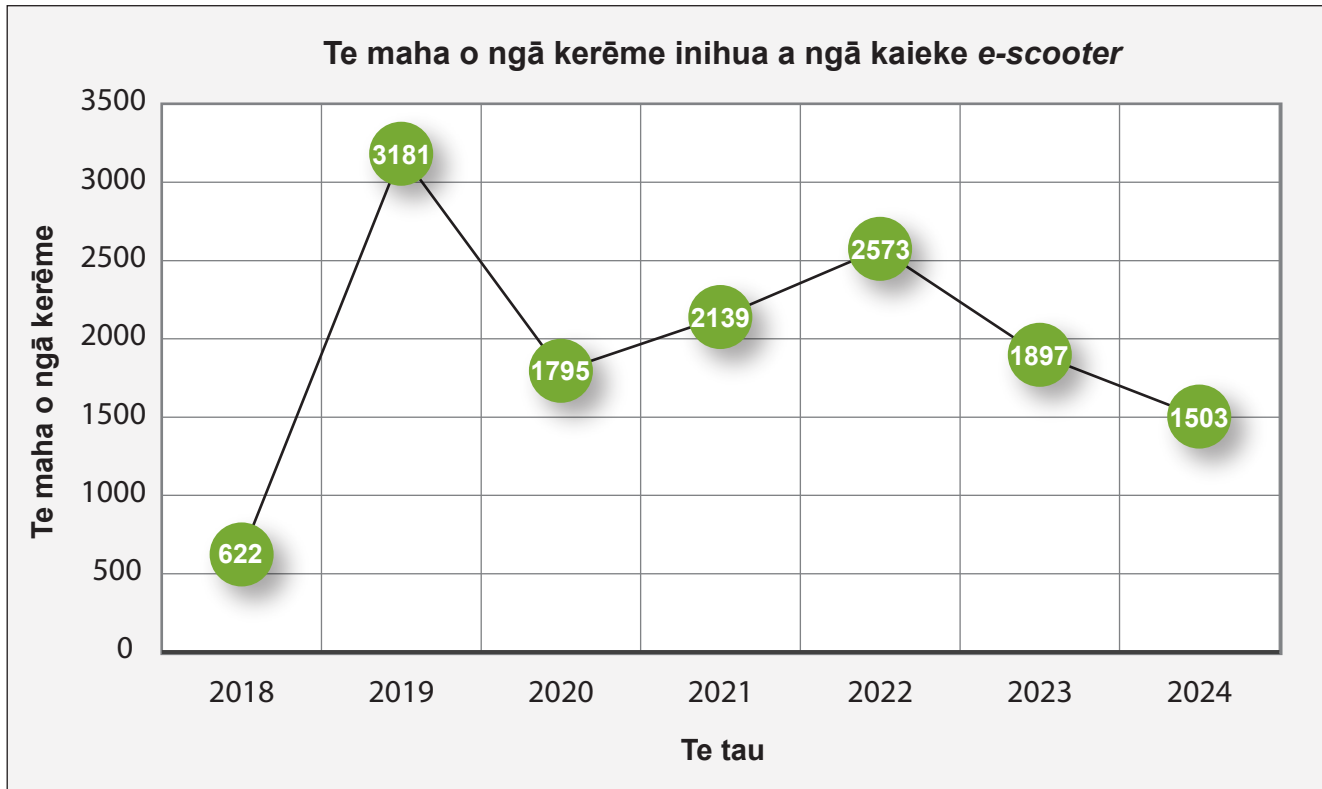
Here is a side view diagram of an e-scooter.



- (e) Measure the head angle of the e-scooter. Give your answer as a whole number.

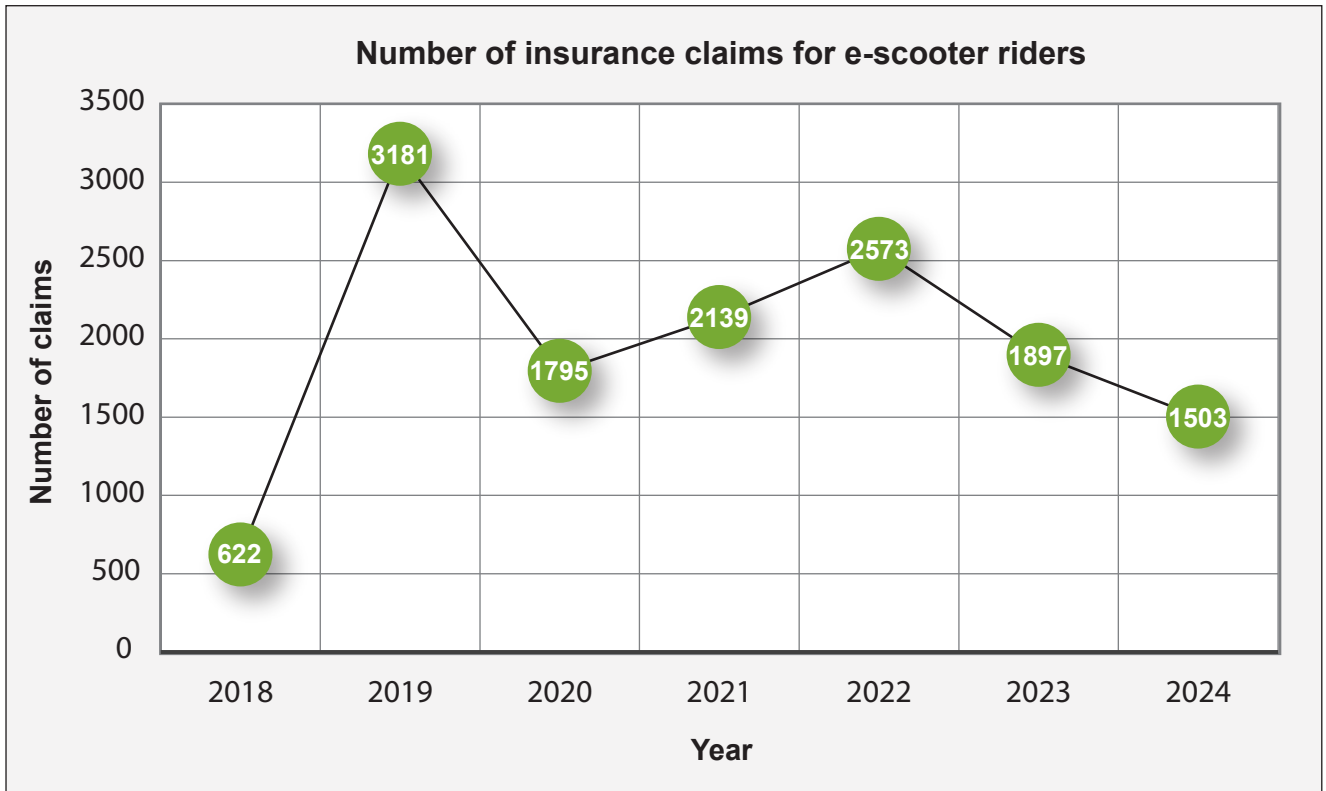
 °

E whakaatuhia ana i te kauwhata e whai ake nei te maha o ngā kerēme inihua a ngā kaieke *e-scooter* mai i te tau 2018 ki te tau 2024.



- (f) E whakaatuhia ana i te kauwhata te maha haere ake o ngā kerēme inihua a ngā kaieke *e-scooter* i roto i ngā tau? Whakamahia ngā taipitopito mai i te kauwhata hei whakamahuki i tō whakautu.

The following graph shows the number of insurance claims made by e-scooter riders from 2018 to 2024.



- (f) Does the graph show that e-scooter riders are making more insurance claims over time? Use information from the graph to explain your answer.

TE TŪMAHI TUARIMA: Te kauhoe

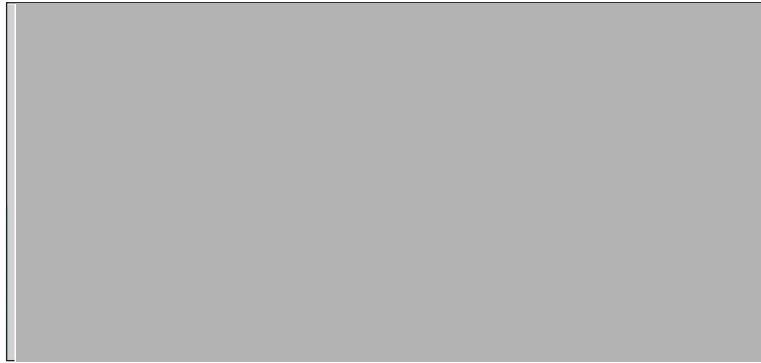


Tōna 4,044,600 ngā tāngata i Te Ika a Māui. Ka taea e tōna 69% o rātou te kauhoe, te mānu rānei i te wai.

(a) I Te Ika a Māui, ka taea e tōna hia nei tāngata te kauhoe, te mānu rānei i te wai?

- (i) ☐ 1.3 miriona
- (ii) ☐ e 2.0 miriona
- (iii) ☐ e 2.4 miriona
- (iv) ☐ e 2.8 miriona
- (v) ☐ e 3.9 miriona

QUESTION FIVE: Swimming



The North Island has about 4,044,600 people. About 69% of them can swim or float in water.

(a) In the North Island, about how many people can swim or float in water?

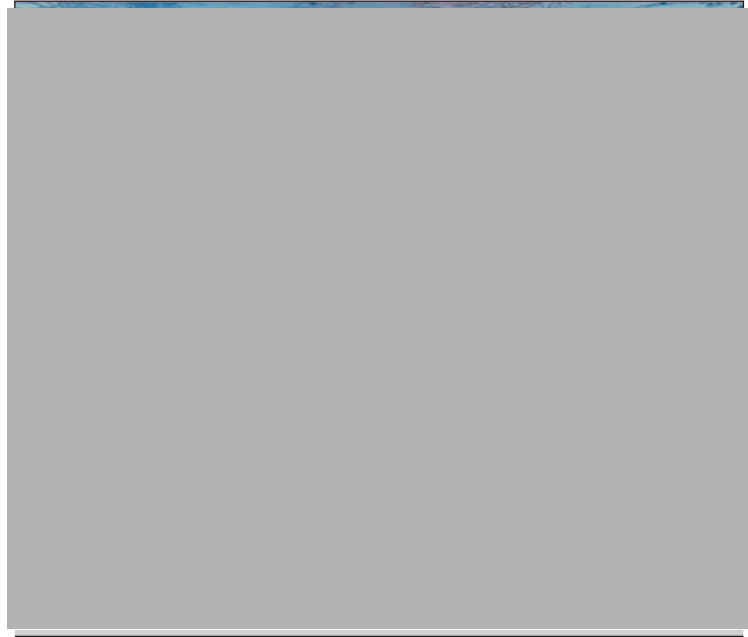
- (i) ☐ 1.3 million
- (ii) ☐ 2.0 million
- (iii) ☐ 2.4 million
- (iv) ☐ 2.8 million
- (v) ☐ 3.9 million

I te ata o raro nei, he koki ka hua ake i te rukuhanga o te ringa o te kaikauhoe ki te wai.



- (b) E 30° te rahi o te koki? I tō whakautu, whakamahukitia te āhua o te whakatau tatahia o te koki me te kore e whakamahi i tētahi ine-koki.

In the image below, the swimmer's arm dips into the water at an angle.



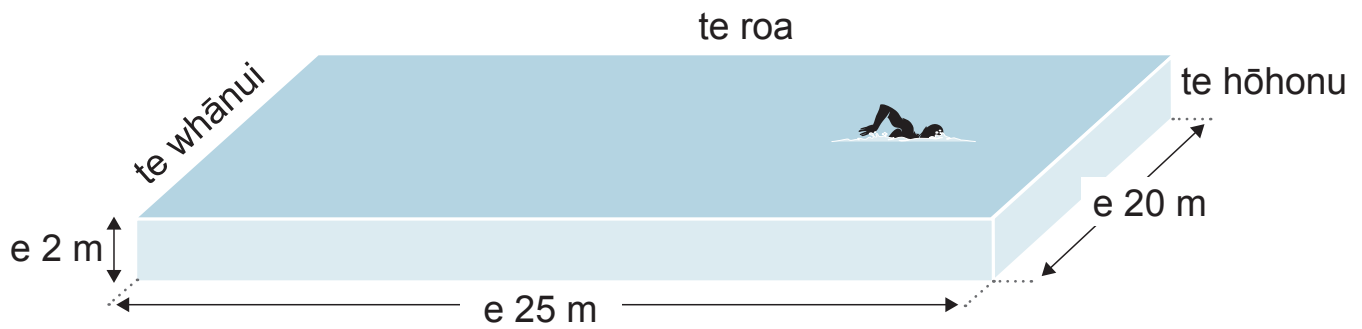
- (b) Does the angle measure 30° ? In your answer, explain how the angle can be estimated without using a protractor.

Ka kauhoe a Tui i te 50 mita i te 40 hākona.

(c) Ko te aha te tere toharite o tā Tui kauhoe, hei mita i te hākona?

mita i te hākona

E whakaatuhia ana i te hoahoa o raro nei ngā korahi o tētahi puna kauhoe.



(d) E hia ngā mita pūtoru (m^3) o te wai kei roto i te puna kauhoe?

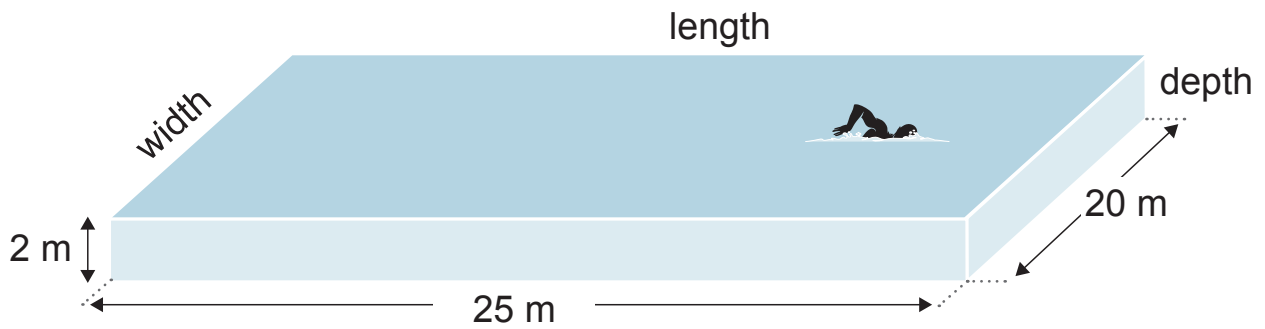
m^3

Tui swims 50 metres in 40 seconds.

- (c) What is Tui's average swimming speed, in metres per second?

metres per second

The diagram below shows the dimensions of a swimming pool.



- (d) How many cubic metres (m^3) of water are in the pool?

m^3

Anei tētahi ata o tētahi whiringa toa mō te kauhoe i te 100 mita i Ngā Taumāhekeheke o te Ao o te tau 2024.



E whakaatuhia ana i tēnei tūtohi ngā wā kauhoe o ngā toa whiwhi mētara e toru o Ngā Taumāhekeheke o te Ao.

Te mētara kōura	Te mētara hiriwa	Te mētara rauwhero
E 49.90 hākona	E 49.99 hākona	E 50.45 hākona

(e) “He **hautekau hākona** noa iho te pōturi iho o te toa whiwhi mētara hiriwa i tō te toa whiwhi mētara kōura.”

Kei te tika taua tauākī? Whakamahia tētahi tātai whai tau ā-ira hei whakamahuki i tō whakautu.

Here is an image of a 100-metre swimming final at the 2024 Olympics.



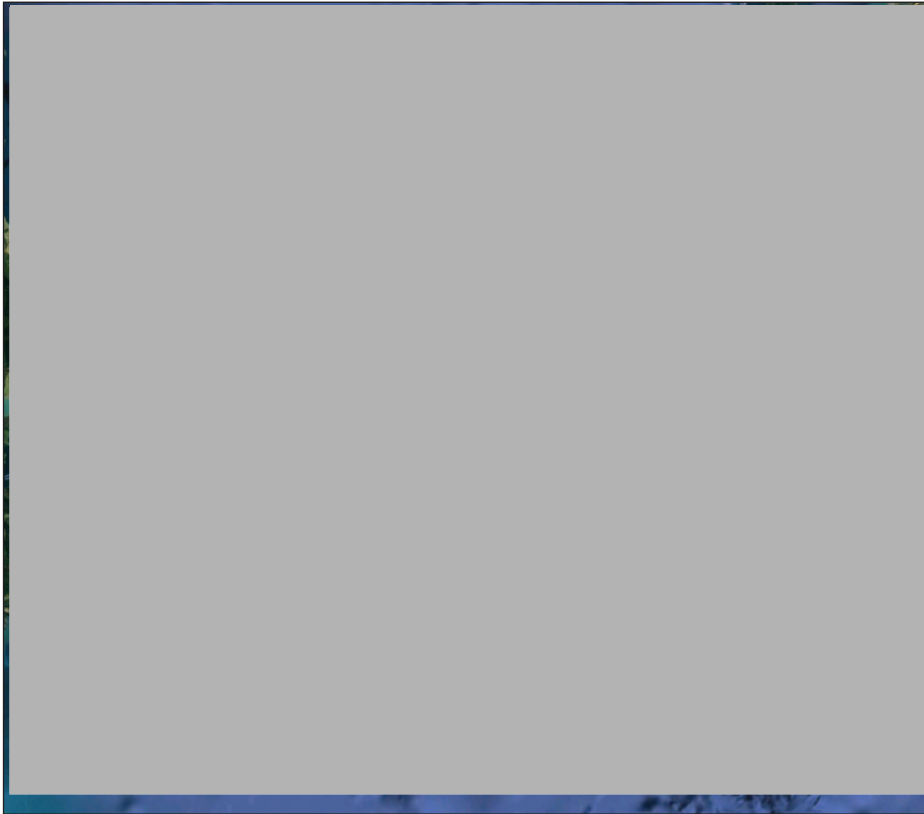
This table shows the swimming times of the three Olympic medal winners.

Gold medal	Silver medal	Bronze medal
49.90 seconds	49.99 seconds	50.45 seconds

- (e) “The silver medallist was only **one tenth of a second** slower than the gold medallist.”

Is that statement correct? Use a calculation with decimals to explain your answer.

I kauhoe a Caitlin O'Reilly i Te Moana o Raukawa i te wā 12 tau tōna pakeke. E whakaatu ana te rārangi kōwhai i te pikitia i te ara i kauria ai e ia. I tīmata ia i tētahi wāhi e tata ana ki Te Whanganui a Tara.



- (f) Ko tēhea ahunga te mea pai katoa hei whakaahua i tana ara whakawhiti i te moana?
- (i) ☐ I waenga i te Rāwhiti me te Rāwhiti-mā-raki
 - (ii) ☐ I waenga i te Uru me te Uru-mā-tonga
 - (iii) ☐ I waenga i te Rāwhiti me te Rāwhiti-mā-tonga
 - (iv) ☐ I waenga i te Uru me te Uru-mā-raki

Caitlin O'Reilly swam across Cook Strait at the age of 12. The yellow line in the picture shows the path she took. She started near Wellington.



(f) Which direction best describes her path across the Strait?

- (i) ☐ Between East and North-east
- (ii) ☐ Between West and South-west
- (iii) ☐ Between East and South-east
- (iv) ☐ Between West and North-west

He whārangi tāpiri tēnei hei whakaoti i ō whakautu mēnā e hiahiatia ana.
Āta tuhia te tau o te pātai.

TAU PĀTAI

Write the question number(s) if applicable.

He mihi

Kua whakahāngaitia ngā rawa i tangohia ai i ngā puna e whai ake nei hei whakamahinga i tēnei aromatawai:

Te Tūmahi Tuatahi

Te whārangi 2, Te whārangi 6: Ko te pānui whakaahua i te kiriata, he mea hanga e te atamai waihanga

Te whārangi 8: Te huinga kānga pāhūhū, <https://www.hebervalleyentertainment.com/product-page/combo-lrg-popcorn-2-drinks-refillable>

Te whārangi 8: Te aihikirimi, https://toppng.com/free-image/vanilla-ice-cream-png-PNG-free-PNG-Images_129571

Te whārangi 8: Te pouaka kānga pāhūhū, <https://bcsfoodpak.co.nz/products/food-packaging/paper-cardboard-products/popcorn-boxes>

Te Tūmahi Tuarua

Te whārangi 12: Te hoahoa o ngā hautau upoko, https://www.researchgate.net/figure/Changes-in-body-proportions-from-birth-to-adulthood-in-years-and-the-differences-in-head_fig9_342526922

Te whārangi 14: AED, <https://reliancemedical.co.nz/collections/aed>

Te whārangi 14: CPR, <https://www.drugs.com/cg/adult-cpr-steps.html>

Te whārangi 18: Te pani ārai hihirā, <https://cosmocosmetics.in/products/sunblock-cream-spf-50>

Te Tūmahi Tuatoru

Te whārangi 20: He pereti kai hauora, <https://www.oxfordmartin.ox.ac.uk/blog/official-healthy-food-guide-hasnt-changed-in-20-years-five-things-that-need-updating>

Te whārangi 24: He tipu kāpeti, <https://media.istockphoto.com/id/176821347/photo/cabbage-sprout.jpg>

Te Tūmahi Tuawhā

Te whārangi 30: Te *e-scooter*, <https://electricscootershop.co.nz/collections/scooters>

Te whārangi 30: He kōtiro eke *e-scooter*, <https://www.pbtech.co.nz/product/HEASGW0036/Segway-Ninebot-ES1L-Kick-Scooter---Dark-Grey-Max-S>

Te whārangi 32: Te matauri o te tangata kei runga kuta, <https://www.vectorstock.com/royalty-free-vector/silhouette-of-a-man-riding-an-electric-scooter-vector-53899289>

Te whārangi 32: Te tohu o te kuta i te kauwhata, https://www.freepik.com/premium-vector/electric-scooter-black-icon-e-bike-flat-style-vector-illustration-isolated_38126735.htm

Te whārangi 34: Te hoahoa o te *e-scooter*, <https://swiftyscooters.com/blogs/journal/e-scooter-safety-and-design>

Te Tūmahi Tuarima

Te whārangi 38: He tangata e mānu ana, <https://www.wikihow.com/Float-on-Your-Back#/Image:Float-on-Your-Back-Step-9-Version-2.jpg>

Te whārangi 40: He tangata e kauhoe ana, Freestyle Swimming. (2025, te 5 o Hune). Freestyle Rotation: Rock Not Roll? [video]. YouTube.

<https://www.youtube.com/watch?v=5eDQ6QJVFew>

Te whārangi 44: Te whiringa toa o te kauhoe, <https://olympic.ca/wp-content/uploads/2024/08/CAW04268.jpg>

Te whārangi 46: Te mahere o Te Moana o Raukawa, <https://images.squarespace-cdn.com/content/v1/5d573fbd76eb470001e99543/1569363325875-RBJ18AE9B8P7TNB9YCZA/Cook+strait.jpg>

1e99543/1569363325875-RBJ18AE9B8P7TNB9YCZA/Cook+strait.jpg

Acknowledgements

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

Question One

Page 3, Page 4: Movie poster, created using generative AI

Page 9: Popcorn combo, <https://www.hebervalleyentertainment.com/product-page/combo-lrg-popcorn-2-drinks-refillable>

Page 9: Ice cream cone, https://toppng.com/free-image/vanilla-ice-cream-png-PNG-free-PNG-Images_129571

Page 9: Popcorn box, <https://bcsfoodpak.co.nz/products/food-packaging/paper-cardboard-products/popcorn-boxes>

Question Two

Page 13: Head proportions diagram, https://www.researchgate.net/figure/Changes-in-body-proportions-from-birth-to-adulthood-in-years-and-the-differences-in-head_fig9_342526922

Page 15: AED, <https://reliancemedical.co.nz/collections/aed>

Page 15: CPR, <https://www.drugs.com/cg/adult-cpr-steps.html>

Page 19: Sunscreen, <https://cosmocosmetics.in/products/sunblock-cream-spf-50>

Question Three

Page 21: Healthy plate, <https://www.oxfordmartin.ox.ac.uk/blog/official-healthy-food-guide-hasnt-changed-in-20-years-five-things-that-need-updating>

Page 25: Cabbage seedling, <https://media.istockphoto.com/id/176821347/photo/cabbage-sprout.jpg>

Question Four

Page 31: E-scooter, <https://electricscootershop.co.nz/collections/scooters>

Page 31: Girl on e-scooter, <https://www.pbtech.co.nz/product/HEASGW0036/Segway-Ninebot-ES1L-Kick-Scooter---Dark-Grey-Max-S>

Page 33: Silhouette of man on scooter, <https://www.vectorstock.com/royalty-free-vector/silhouette-of-a-man-riding-an-electric-scooter-vector-53899289>

Page 33: Scooter icon in graph, https://www.freepik.com/premium-vector/electric-scooter-black-icon-e-bike-flat-style-vector-illustration-isolated_38126735.htm

Page 35: E-scooter diagram, <https://swiftyscooters.com/blogs/journal/e-scooter-safety-and-design>

Question Five

Page 39: Person floating, <https://www.wikihow.com/Float-on-Your-Back#/Image/Float-on-Your-Back-Step-9-Version-2.jpg>

Page 41: Person swimming, Freestyle Swimming. (2025, 5 June). Freestyle Rotation: Rock Not Roll? [video]. YouTube. <https://www.youtube.com/watch?v=5eDQ6QIVFEw>

Page 45: Swimming final, <https://olympic.ca/wp-content/uploads/2024/08/CAW04268.jpg>

Page 47: Cook Strait map, <https://images.squarespace-cdn.com/content/v1/5d573fbd76eb470001e99543/1569363325875-RBJ18AE9B8P7TNB9YCZA/Cook+strait.jpg>

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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 2025

32406 Apply mathematics and statistics in a range of everyday situations

Credits: Ten

WEEK TWO | 8–12 SEPTEMBER 2025

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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 2–51 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.

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