

Hei whakaoti mā te ākonga

Te Tau Ākonga ā-Motu (NSN)

--	--	--	--	--	--	--	--	--	--

Te Tau ā-Kura

--	--	--	--

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

--

32406 TE WĀHANGA 2



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 26–30 O MEI 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.

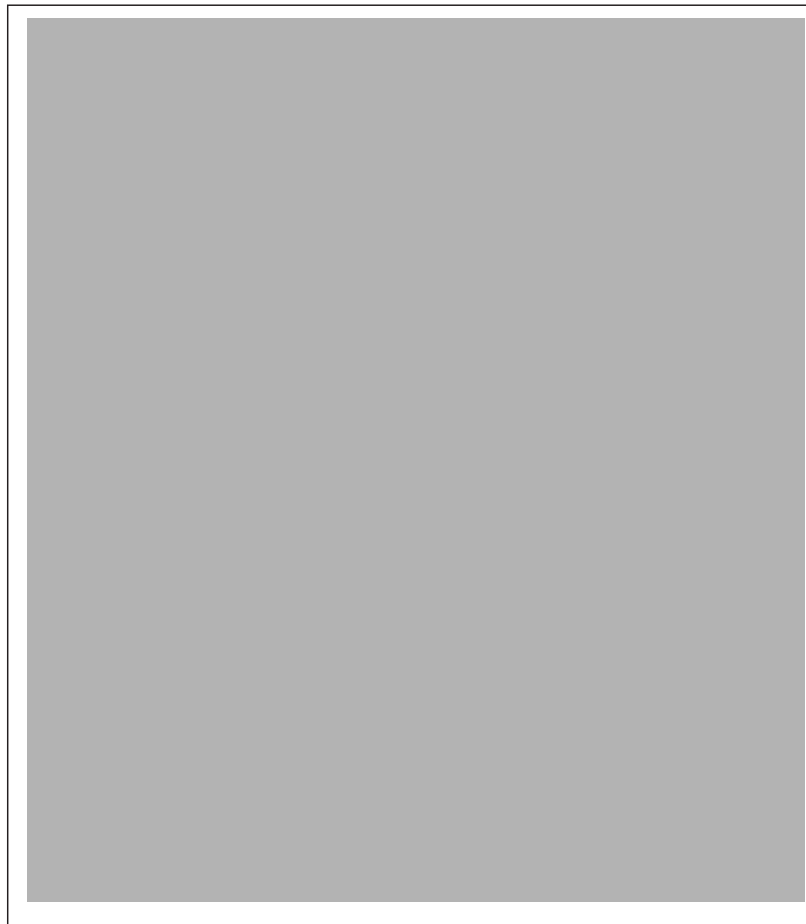
TE TŪMAHI TUATAHI: Me whai āwhina a Māmā

Ka whakamahi tiripou a Māmā mō te whā wiki.

Hei tāna, “He rite te whā wiki ki tōna 40,000 meneti”.

- (a) Kei te tika tāna? Whakamahia ngā tātai ā-wā hei whakamahuki i tō whakautu.

Me whakarite ngā tiripou a Māmā kia tika ai te koki o te piko o tana ringa.



- (b) E hia putu te rahi o te koki tika?

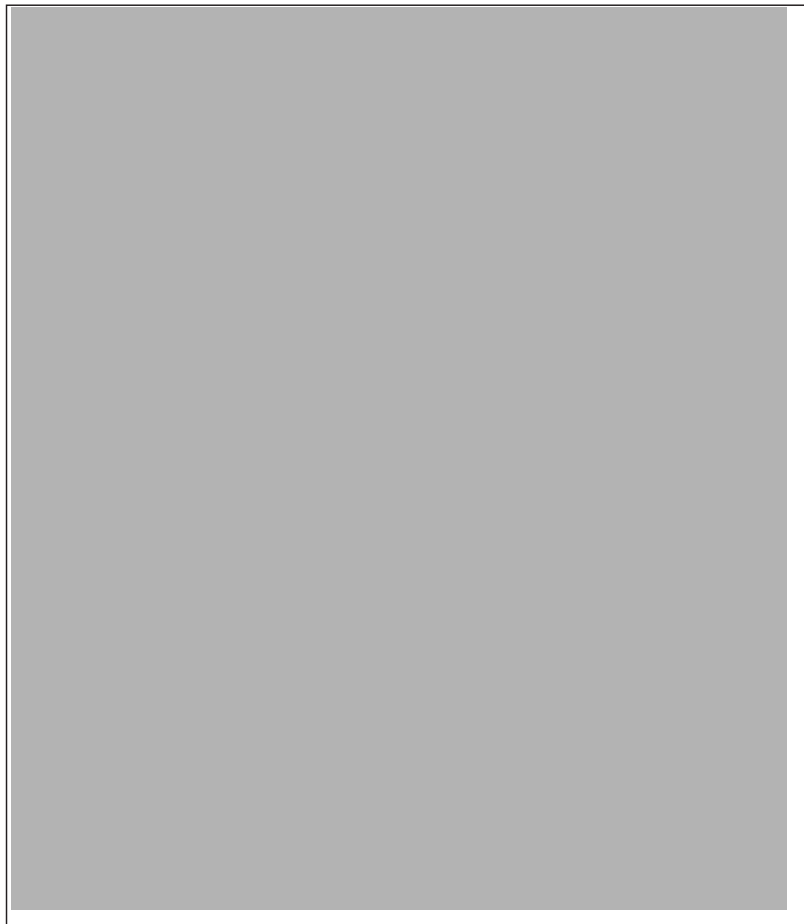
QUESTION ONE: Mum needs help

Mum will be on crutches for four weeks.

She says, “Four weeks is about 40,000 minutes”.

- (a) Is she right? Use time calculations to explain your answer.

Mum’s crutches need to be set so that her arm is bent at the correct angle.



- (b) How many degrees is the correct angle?

 °

Ka whakahīkoi tētahi hoa i te kurī a Māmā. E whakaatu ana te rārangi tohuwhai kei te mahere i te ara ka whāia e te hoa me te kurī.

E tohu ana te **X** i tōna 900 mita ki te ara i te tīmatanga o te hīkoi.



(c) Tohua (✓) te pū e whakaatu ana i te āwhata tika mō tēnei mahere.

A ☐

B ☐

C ☐

D ☐

E ☐

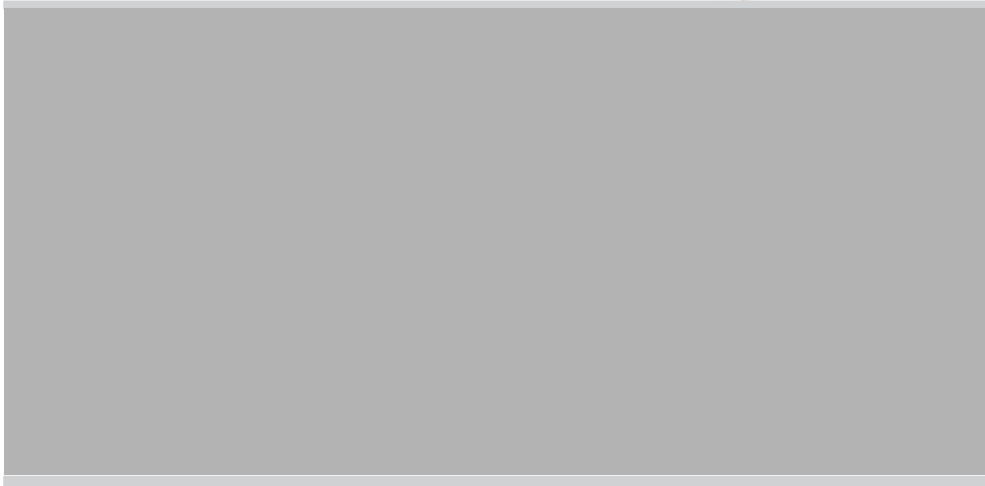
A friend takes Mum's dog for a walk. The dashed line on the map shows the path they take. The **X** marks about 900 metres along the path from the start of the walk.



(c) Tick (✓) the letter that shows the correct scale for this map.

- A ☐ B ☐ C ☐ D ☐ E ☐

Me whai a Māmā i tētahi pouaka mārā e kī ana i te oneone hei whakatipu huawhenua.



(d) E hia mitarau pūtoru (m^3) te nui o te oneone me whai?

 m^3

Ka raua atu e Pāpā ngā kākahu, e 5 manokaramu te taumaha, ki te pūrere horoi kaka.

Ā muri i te horoinga, kua 1.8 whakareanga te taumaha ake o ngā kākahu mākū, tēnā i ngā kākahu maroke.

(e) E hia manokaramu te taumaha o ngā kākahu **mākū**?

 kg

Kua kite a Māmā i te ipupara e 240-rita tōna nui, kua toru hauwhā te kī.

(f) E hia rita te nui o te wāhi e **wātea** ana i te ipu?

 L

Mum needs to have a garden box filled with dirt to grow vegetables.



- (d) How many cubic metres (m^3) of dirt are needed?

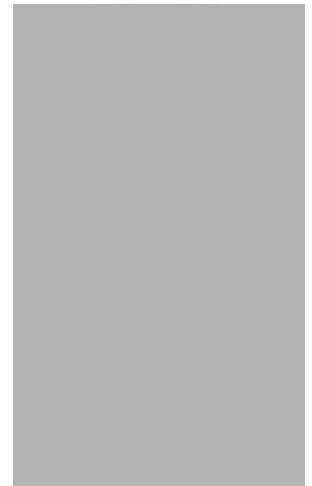
m^3

Dad puts 5 kilograms of clothes into the washing machine.

After washing, the wet clothes weigh 1.8 times as much as the dry clothes did.

- (e) How much do the **wet** clothes weigh, in kilograms?

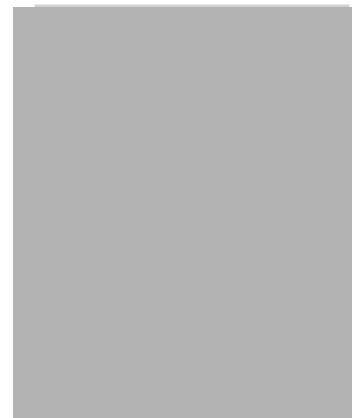
kg



Mum notices that the 240-litre rubbish bin is $\frac{3}{4}$ full.

- (f) How much space, in litres, is **left** in the bin?

L



TE TŪMAHI TUARUA: He koti

Arā ngā momo rahinga koti.

Te rahi	Te uma (cm)	Te puku (cm)	Te ringa (cm)
He tino iti	86–88	71–73	81–83
He iti	89–95	74–76	84–85
He āhua nui	96–105	77–84	86–88
He rahi	106–111	85–94	89–90
He tino rahi	112–122	95–101	91–93

E 88 mitarau te roa o te ringa (ā-koti) o Jack, ā, 110 mitarau te whānui o tana uma.



Hei tā Jack, ko te ‘rahi’ te nui o te koti ka pai katoa hei hoko māna.

- (a) E whakaae ana koe? Whakamahia ngā inenga i te tūtohi hei whakamahuki i tō whakautu.

QUESTION TWO: Jackets

Jackets come in different sizes.

Size	Chest (cm)	Waist (cm)	Sleeve (cm)
X-Small	86–88	71–73	81–83
Small	89–95	74–76	84–85
Medium	96–105	77–84	86–88
Large	106–111	85–94	89–90
X-Large	112–122	95–101	91–93

Jack's arm (sleeve length) measures 88 cm, and his chest measures 110 cm.



Jack thinks that a size 'Large' will be the best jacket size to buy.

(a) Do you agree? Use measurements from the table to explain your answer.

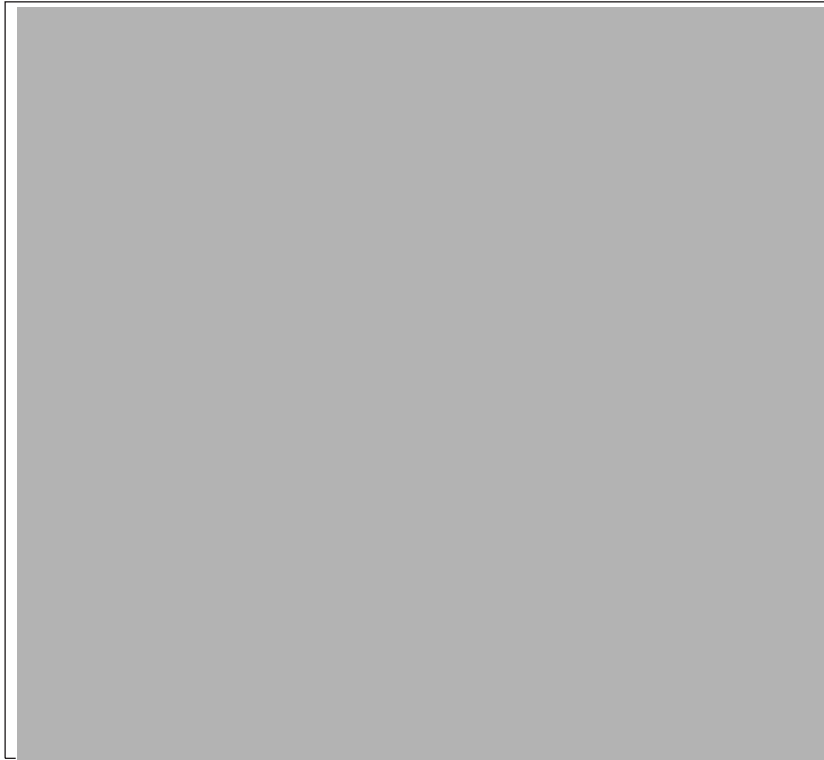
I te nuinga o te wā, ko te \$179 te utu o tēnei koti.

I te wā ka whakahekea te utu, ka 30% te hekenga.

(b) E hia te utu o te koti i muri i te whakahekenga?

\$

I ōna wā, he aratohu ine-paemahana tō te koti.



Te aratohu ine-paemahana o te koti.

(c) Tohua (✓) te ine whānui o te paemahana e hangaia ai tētahi koti hune-nui.

- (i) 10 °C ki te 20 °C ☐
- (ii) -1 °C ki te 10 °C ☐
- (iii) -6 °C ki te -1 °C ☐
- (iv) -20 °C ki te -6 °C ☐
- (v) -30 °C ki te -20 °C ☐

The price of this jacket is usually \$179.

On sale, you get 30% off.

(b) What is the sale price of the jacket?

\$

Sometimes, jackets have a temperature-range guide.



Jacket temperature-range guide.

(c) Tick (✓) the temperature range that a heavy-weight jacket is made for.

- | | |
|----------------------|-----------------------|
| (i) 10 °C to 20 °C | ☐ |
| (ii) -1 °C to 10 °C | ☐ |
| (iii) -6 °C to -1 °C | ☐ |
| (iv) -20 °C to -6 °C | ☐ |
| (v) -30 °C to -20 °C | ☐ |

Ka mahana ake koe i te kotī mēnā he teitei ake te kounġa ā-hune (FQ).

Anei ngā kounġa ā-hune (FQ), ngā taumaha, me ngā utu o ētahi kotī e toru.



- (d) E tika ana rānei te kōrero “He nui ake te utu o te kotī e teitei nei tana kounġa ā-hune, engari he māmā ake te taumaha, tēnā i te kotī e iti nei te kounġa ā-hune”?

Whakamahia ngā tau i ngā tohukaka o ngā kotī e rua hei whakamahuki i tō whakautu.

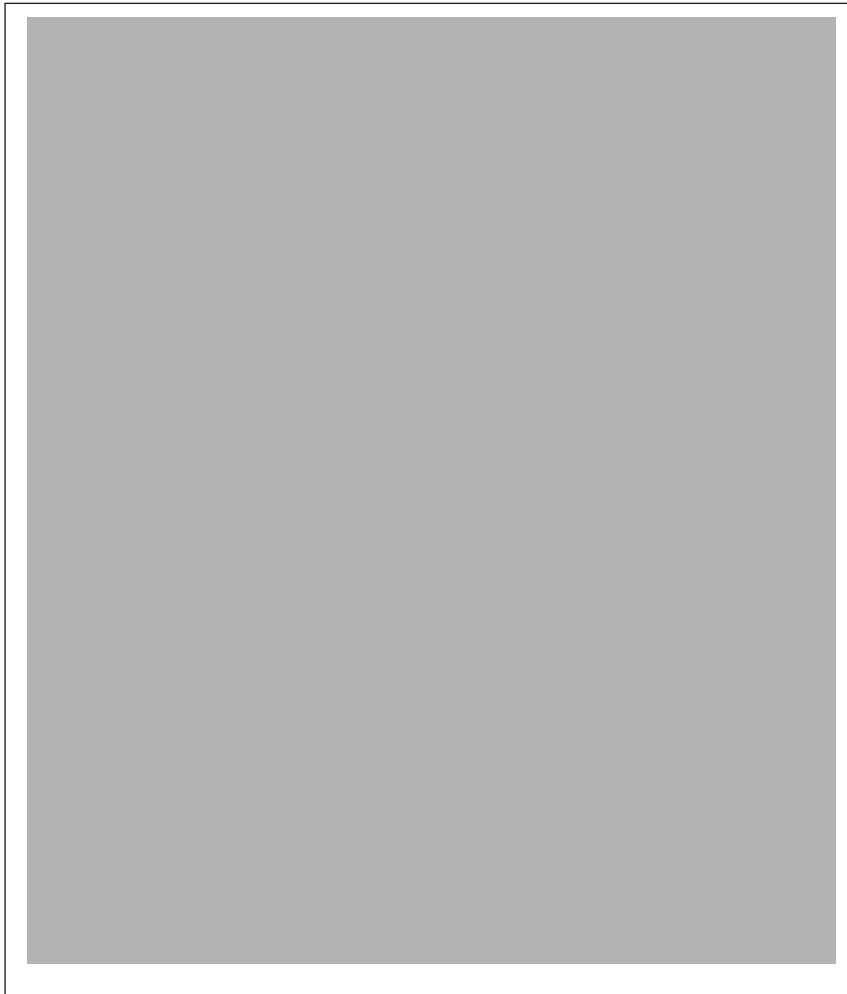
A jacket keeps you warmer if it has a higher fill quality (FQ).

Here are the FQs, weights, and prices of three jackets.



- (d) Is it true to say “Jackets with high FQ cost more, but weigh less, than low-FQ jackets”?

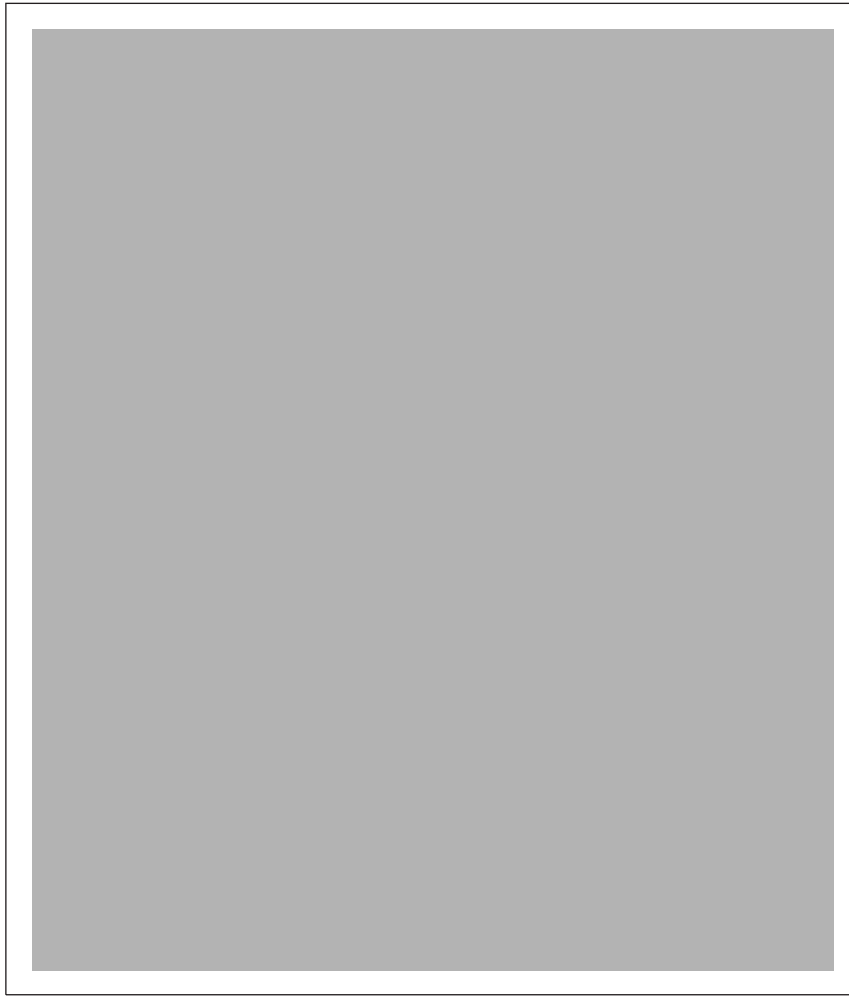
Use numbers from any two jacket tags to explain your answer.



I te wā e whakamātauria ana tētahi koti, 13.4°C te inenga o te paemahana ā-roto o te koti.
E -6.2°C te inenga o te paemahana ā-waho o te koti.

(e) He aha te rerekētanga i waenga i te 13.4°C me te -6.2°C ?

$^{\circ}\text{C}$

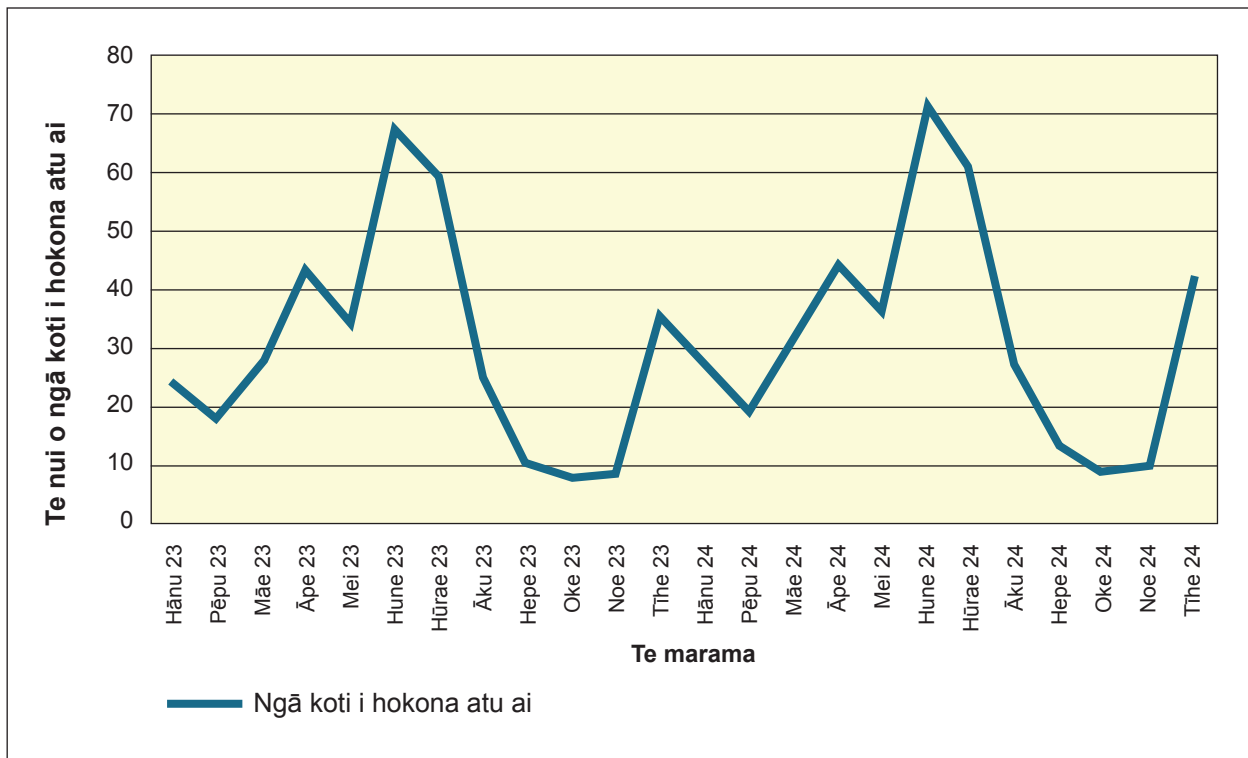


While testing a jacket, the inside temperature of the jacket was measured at 13.4°C .
The outside temperature was measured at -6.2°C .

(e) What is the difference between 13.4°C and -6.2°C ?

$^{\circ}\text{C}$

E whakaatuhia ana i te kauwhata i raro nei te nui o ngā koti i hokona atu ai i tētahi toa i waenga i te tau 2023 me te tau 2024.

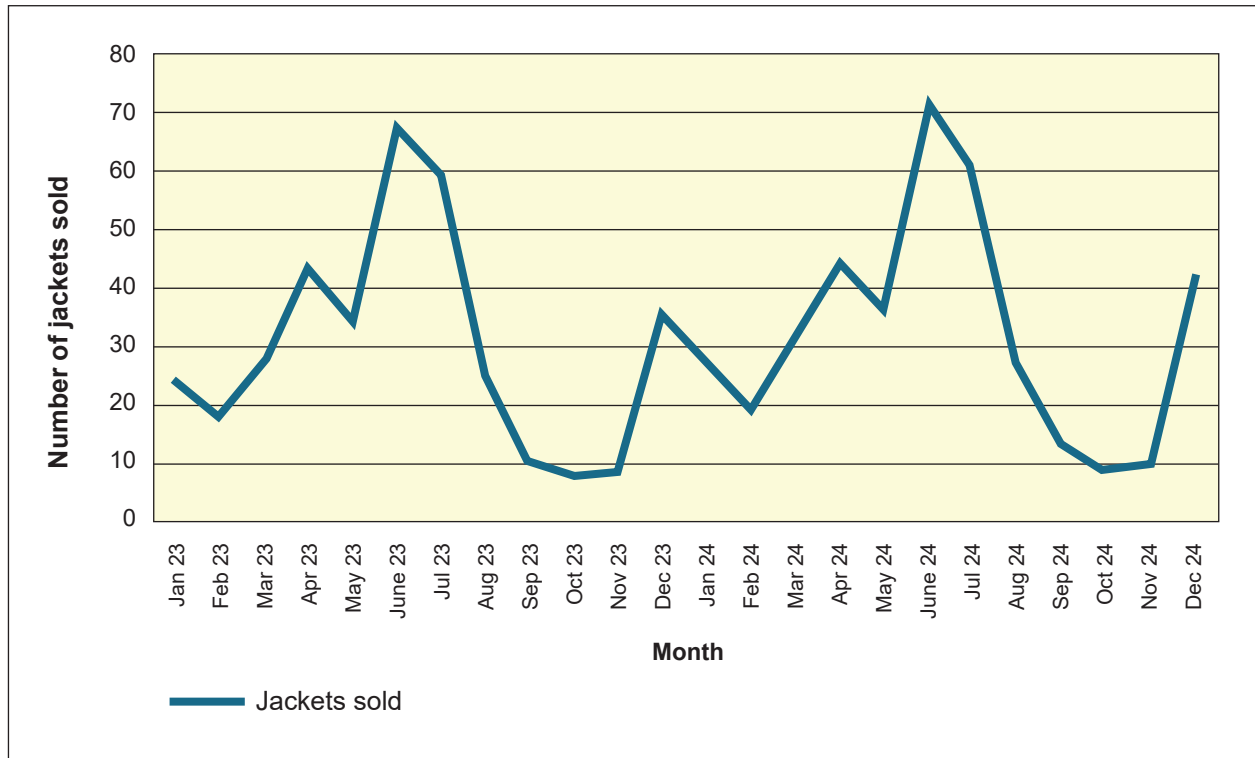


Kia hiwa: Ko Hune, ko Hūrae, me Ākuhata ngā marama makariri katoa. Ko Tīhema, ko Hānuere, me Pēpuere ngā marama wera katoa.

“He nui ake ngā koti ka hokona atu i te wā e makariri ana te huarere, tēnā i te wā e wera ana te huarere.”

- (f) E whakaae ana koe? Whakamahia ngā taipitopito i te kauwhata hei whakamahuki i tō whakautu.

The graph below shows how many jackets are sold at a shop during 2023 and 2024.



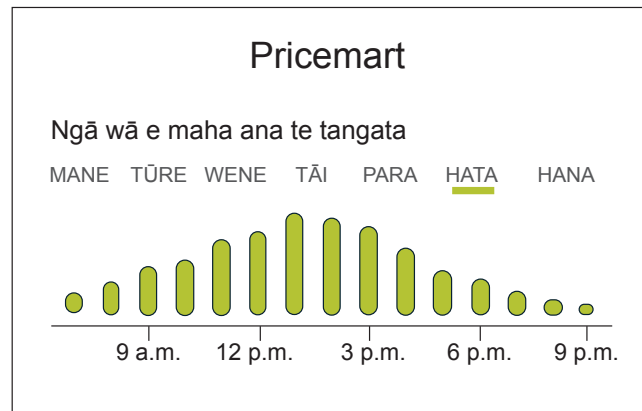
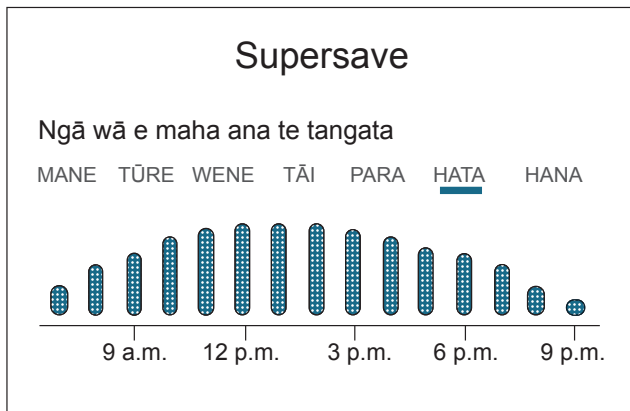
Note: June, July, and August are the coldest months. December, January, and February are the hottest months.

“More jackets are sold when the weather is cold than when it is hot.”

(f) Do you agree? Use information from the graph to explain your answer.

TE TŪMAHI TUATORU: Te hokohoko i te hokomaha

E hiahia ana koe ki te hokohoko i tētahi Hatarei, i muri i te 12 karaka i te rānui. E pai ana koe ki te hokomaha he maha ngā tāngata kei roto.



- (a) Ko tēhea te hokomaha me kōwhiri e koe, ko Supersave rānei, ko Pricemart rānei, ā, mō āhea koe haere atu ai?

Whakamahia ngā taipitopito i te kauwhata hei whakamahuki i tō whakautu.

E \$3.29 i te manokaramu te utu o te panana.

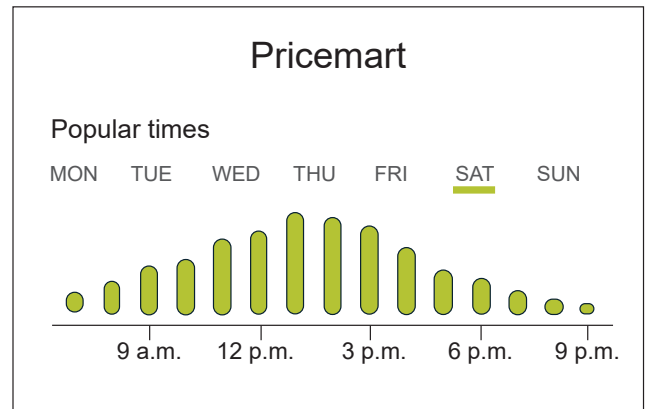
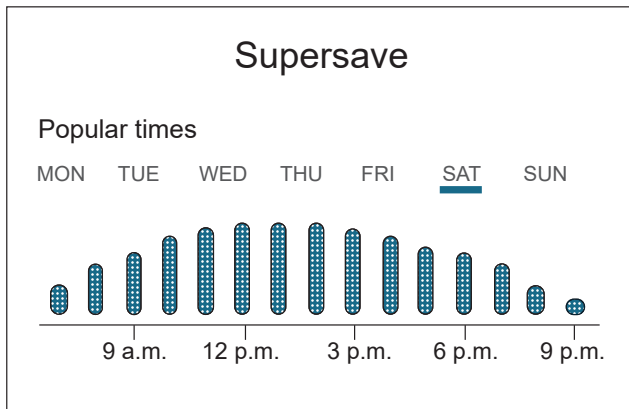
- (b) Ka hia te utu o te pū panana e 760 karamu tōna taumaha? Whakaawhiwhia tō whakautu ki te hēneti e pātata katoa ana.

\$



QUESTION THREE: Supermarket shopping

You want to shop on a Saturday any time after 12 p.m. You like a supermarket with lots of people in it.



- (a) Which supermarket should you choose, Supersave or Pricemart, and what time should you go?

Use information from the graphs to explain your answer.

The price of bananas is \$3.29 per kilogram.

- (b) How much will it cost for a bunch of bananas that weighs 760 grams? Round your answer to the nearest cent.

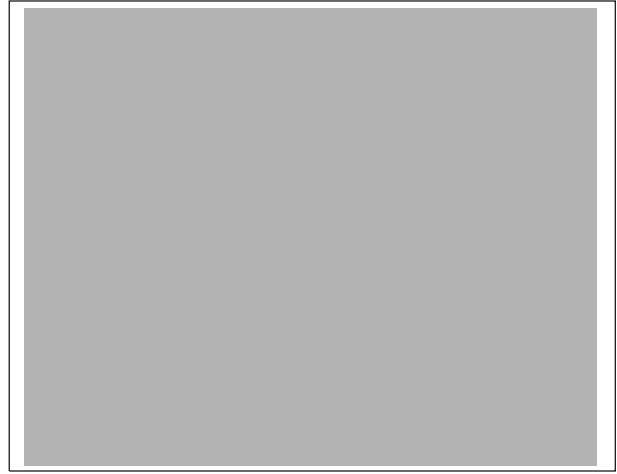
\$



192 mitarau te roa o te rārangi o ētahi tōneke e **rima** nō te hokomaha.



144 mitarau te roa o te rārangi o ētahi tōneke e **toru** nō te hokomaha.



Tirohia te āhua o te kuhunga o ia tōneke ki te puku o te mea kei mua.

- (c) Ka āpitihia ana tētahi tōneke anō ki tēnā rārangi, ki tēnā rārangi, e hia te pikinga o te tapeke o te roa o te rārangi? Tuhia tō whakautu hei mitarau.

cm

\$13.79 te utu o tētahi poro tīhi, kotahi manokaramu tōna rahi; e \$8.19 te utu o tētahi poro o taua momo tīhi, e 500 karamu tōna rahi; ā, e \$6.19 te utu o tētahi poro o taua momo tīhi, e 250 karamu tōna rahi.

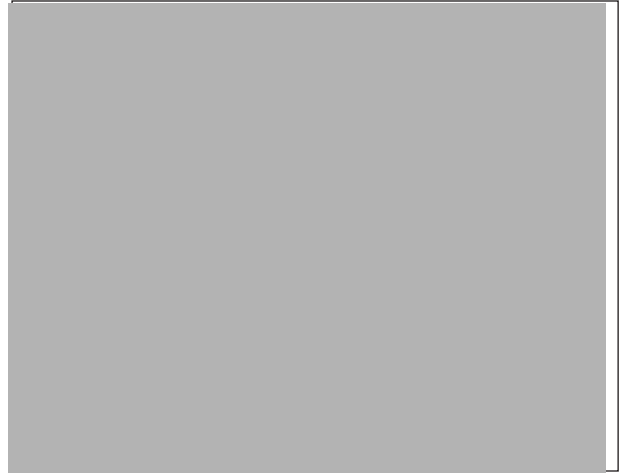


- (d) O ngā poro tīhi e toru, ko te poro tīhi e 500 karamu tōna rahi te mea e pai katoa ana te uara mō te moni i tukua ai? Whakamahia ngā taumaha me ngā utu hei whakamahuki i tō whakautu.

A line of **five** supermarket trolleys is 192 centimetres long.



A line of **three** supermarket trolleys is 144 centimetres long.



Notice how each trolley fits inside the one in front.

- (c) When one extra trolley is added to either line, how much does the total length of the line increase by? Write your answer in centimetres.

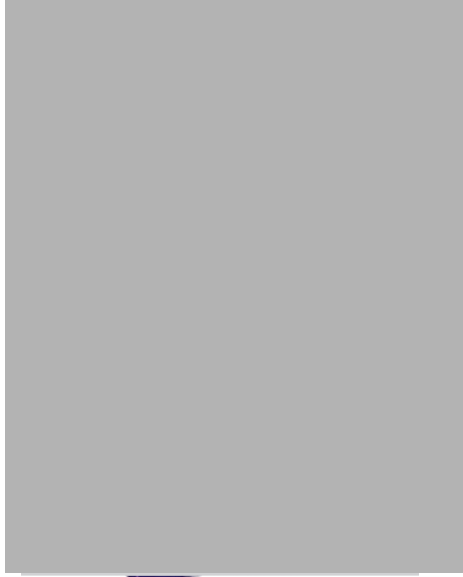
cm

A 1-kilogram block of cheese costs \$13.79, a 500-gram block of the same cheese costs \$8.19, and a 250-gram block of the same cheese costs \$6.19.



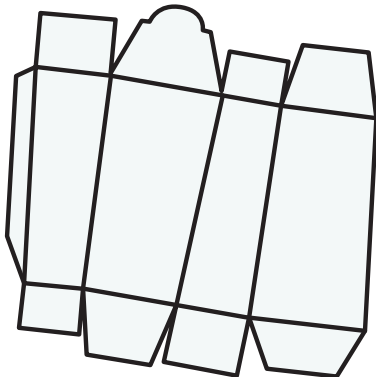
- (d) Is the 500-gram block of cheese the best value for money out of the three blocks of cheese? Use the weights and prices to explain your answer.

E whakaatuhia ana i te ata o raro nei tētahi pākete Cadbury *Favourites*.

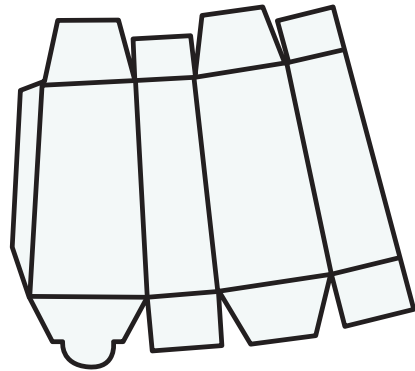


(e) Tohua (✓) te taurira papatahi ka puta hei pākete *Favourites* ina whātuaia.

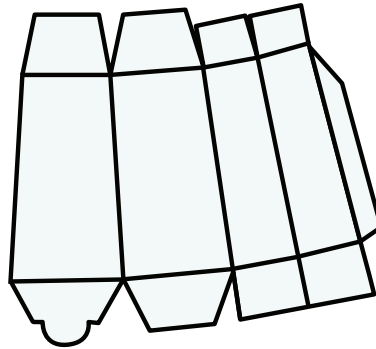
(i)



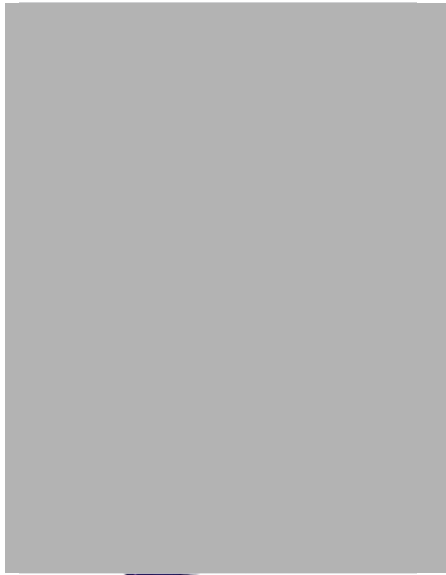
(ii)



(iii)

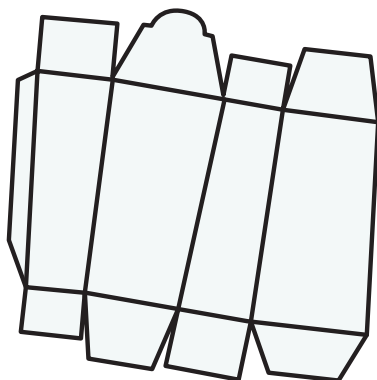


The image below shows a Cadbury *Favourites* packet.

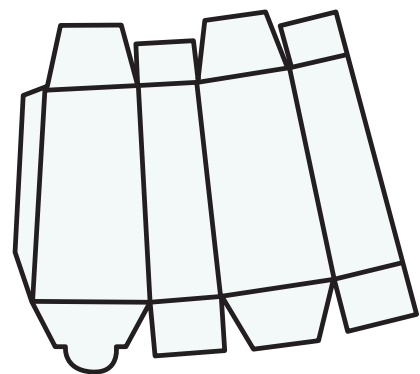


(e) Tick (✓) the net (flat pattern) that would fold to make the *Favourites* packet.

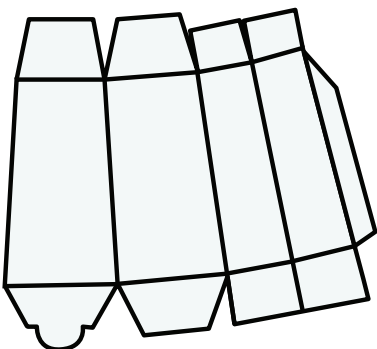
(i) ☐



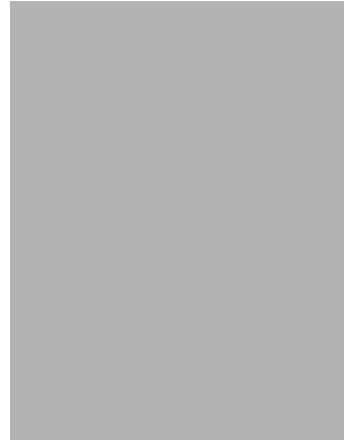
(ii) ☐



(iii) ☐



Ō ai ki te ipu kei raro nei ngā karamu e 900 o te paura whāngote pēpē.



Kotahi te koko o te paura
whāngote pēpē.

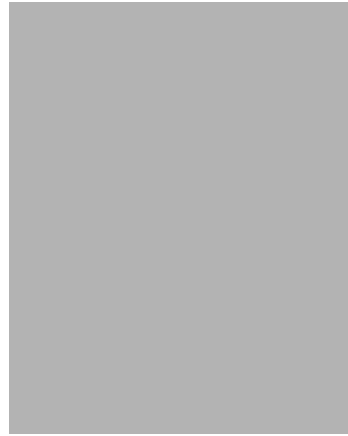
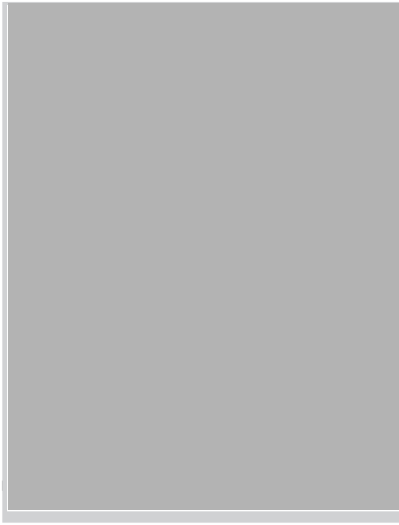
Kotahi te kai mā te pēpē ka hua mai i ngā koko e rua o te paura kua ranua ki te wai.

14.4 karamu te tapeke o te taumaha o ngā koko e rua o te paura whāngote pēpē.

(f) E hia ngā kai ka hua i te ipu e 900 karamu nei tōna taumaha?

ngā kai

The container shown below holds 900 grams of baby formula.



One scoop of baby formula.

You can make one feed for a baby from two scoops of formula mixed with water.

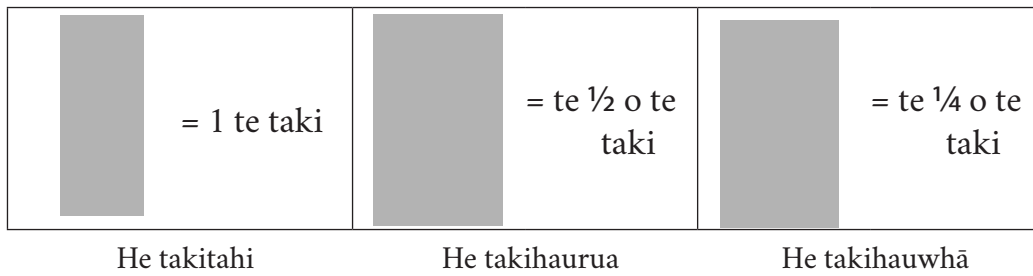
Two scoops of formula weigh 14.4 grams in total.

(f) How many feeds can be made from the 900 gram container?

feeds

TE TŪMAHI TUAWHĀ: Te puoro

Ka puta te taki o te puoro i ngā momo roa o ngā oro.



(a) Tohua (✓) te huinga oro ka tāpirihia e puta ai te **tapeke** o ngā taki e whā.

(i)



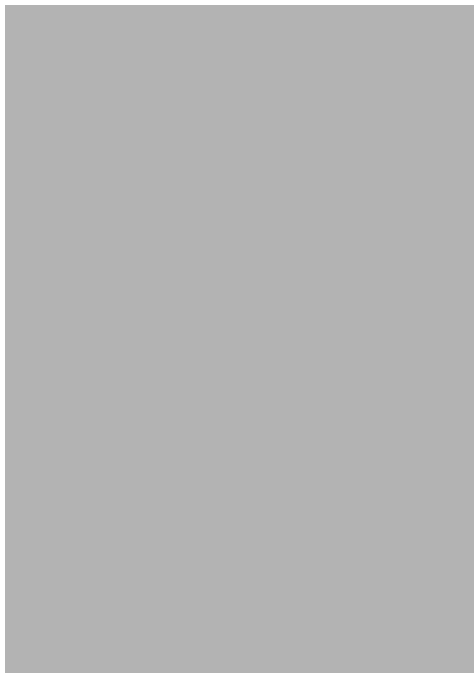
(ii)



(iii)

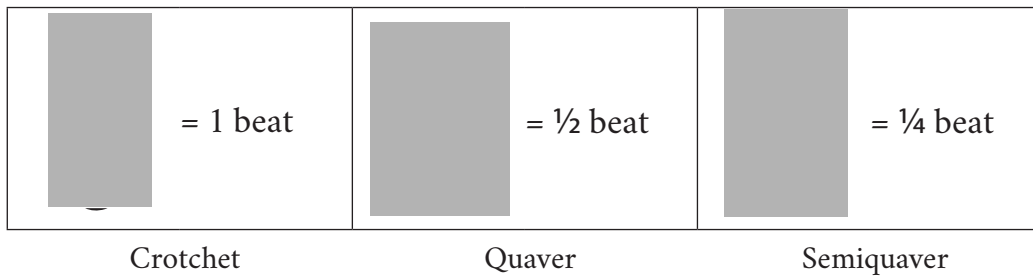


(iv)



QUESTION FOUR: Music

The beat in music is made up of notes of different lengths.



(a) Tick (✓) the set of notes that adds together to make a **total** of four beats.

- (i) ☐ 
- (ii) ☐ 
- (iii) ☐ 
- (iv) ☐ 

He uhi kohinga waiata tēnei e rongonui ana. He nui te hangarite whakaata kei te uhi.



(b) Āta tirohia te uhi. I te rārangi kei raro nei, tohua (✓) ngā wāhanga e RUA o te whakaahua **kei reira rā** te hangarite whakaata.

(i) Ngā karu

☐

(ii) Ngā rākau

☐

(iii) Te rangi

☐

(iv) Te whare

☐

(v) Ngā ihu

☐

This is a famous album cover. The cover has a lot of mirror symmetry.



(b) Look carefully at the cover. From the list below, tick (✓) the TWO parts of the picture **that have** mirror symmetry.

- | | |
|---------------|-----------------------|
| (i) Eyes | ☐ |
| (ii) Trees | ☐ |
| (iii) Sky | ☐ |
| (iv) Building | ☐ |
| (v) Noses | ☐ |

Whakarongo ai te nuinga o ngā tāngata ki te puoro mō ngā haora e 884 i te tau. E 52 ngā wiki i te tau kotahi.

- (c) E hia ngā haora i te **wiki** ka pau i te nuinga o ngā tāngata ki te whakarongo ki te puoro?

ngā haora i te wiki

E whakaatuhia ana i te tūtohi o raro nei ngā momo waiata kei tētahi rārangi waiata. E 200 katoa ngā waiata.

Te momo	Te nui
Te puoro arotini	40
Te puoro rakatū	70
Te puoro rapi	39
He momo kē	51

- (d) Ki te matapōkere te tipakona o tētahi waiata, he aha te tūponotanga o te putanga o tētahi waiata rakatū?

Tuhia tō whakautu hei ōrau.

%

On average, people listen to 884 hours of music per year. There are 52 weeks in one year.

- (c) How many hours **per week**, on average, do people listen to music?

hours per week

The table below shows the different types of songs on a playlist. There are 200 songs altogether.

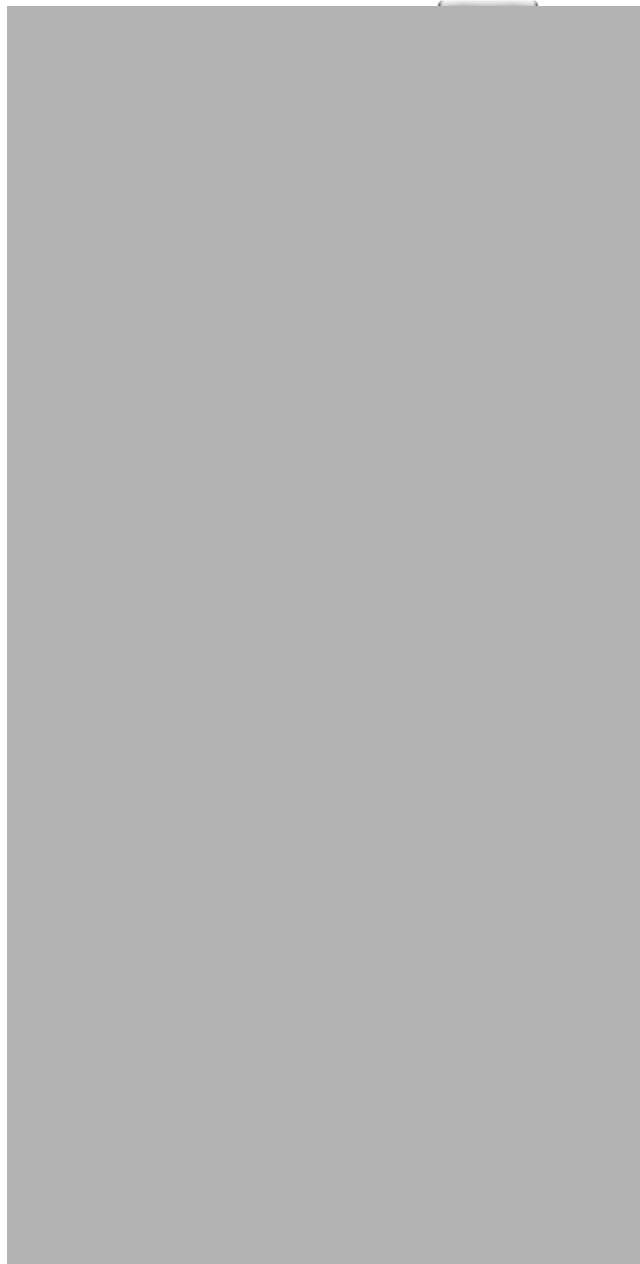
Type	Count
Pop	40
Rock	70
Rap	39
Other	51

- (d) If one song is picked at random, what is the probability that it will be a rock song?

Write your answer as a percentage.

%

E whakaatuhia ana i te tūtohi o raro nei te nui o te utu ka riro i te kaiwaiata i ia pāhotanga o tāna waiata. E whitu ngā pae pāho rerekē.



“Ko ngā hua nui katoa ka riro i te kaiwaiata ka ahu mai i a Tidal.”

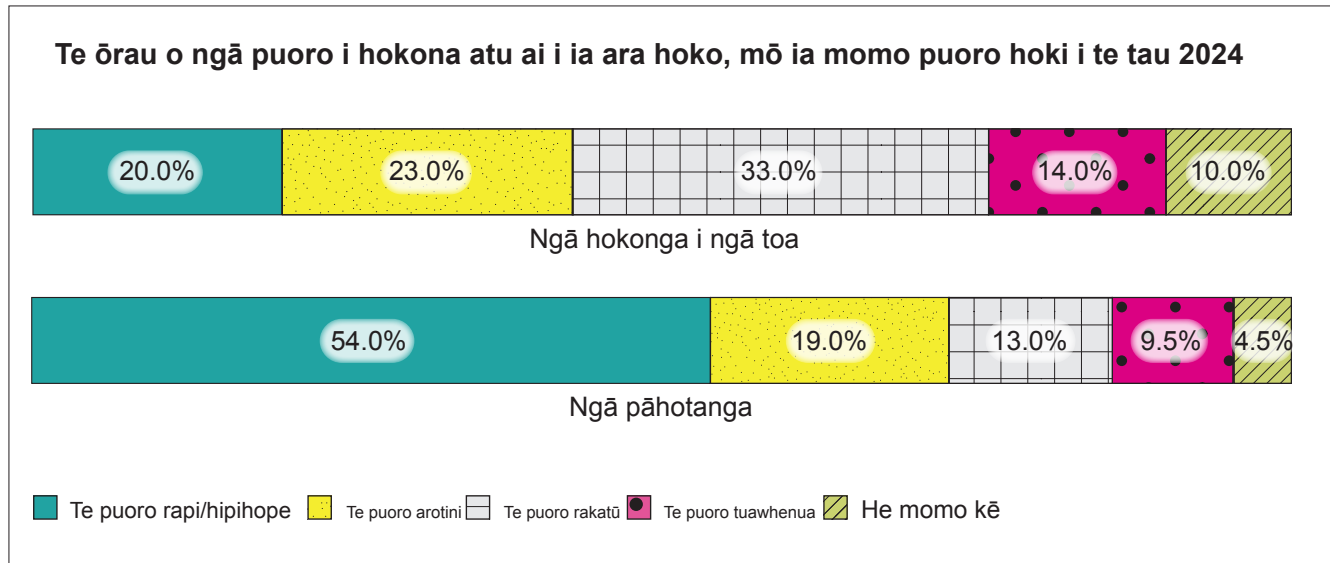
(e) E whakaae ana koe? Whakamahia ngā tau i te tūtohi hei whakamahuki i tō whakautu.

The table below shows how much an artist gets paid each time someone streams their song. There are seven different streaming platforms.

“Tidal gives artists the best deal.”

(e) Do you agree? Use numbers from the table to explain your answer.

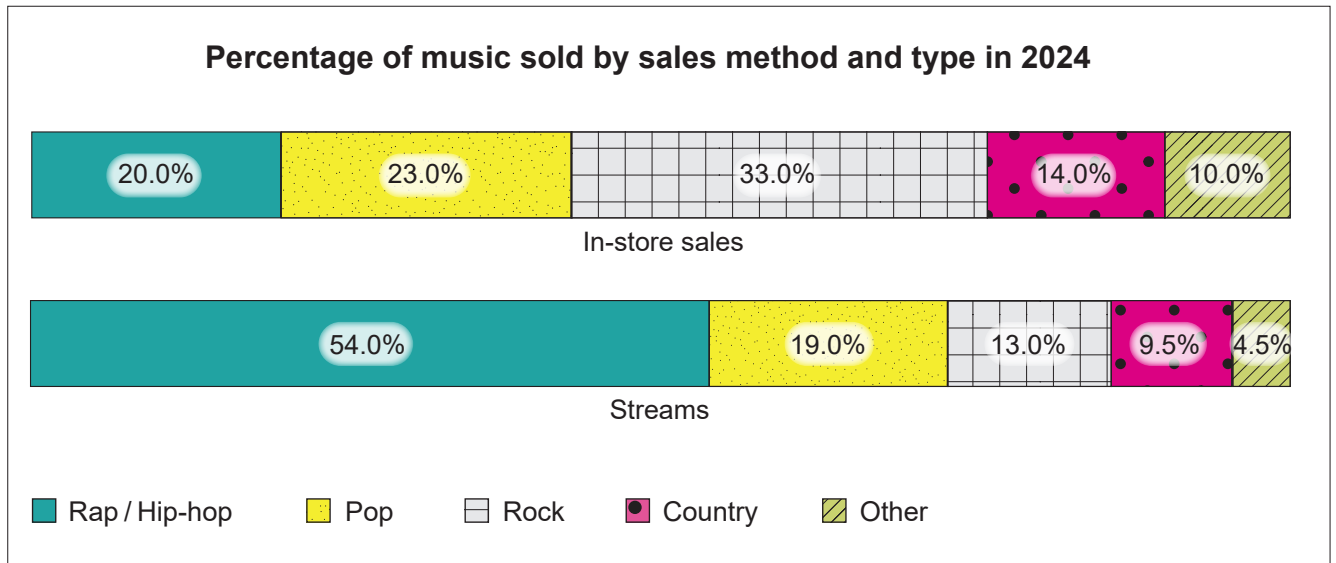
E whakataurite ana tēnei kauwhata i te puoro ka hokona i ngā toa ki te puoro ka hokona i ngā pae pāho.



(f) I te rārangi kei raro nei, tohua (✓) ngā kōrero e RUA e tika ana.

- (i) Tōna $\frac{1}{3}$ o ngā hokonga i ngā toa he puoro rakatū. ☐
- (ii) Neke atu ana i te $\frac{1}{5}$ o ngā pāhotanga he puoro arotini. ☐
- (iii) Iti iho ana i te 10% o ngā hokonga i ngā toa he puoro tuawhenua. ☐
- (iv) Neke atu ana i te $\frac{1}{2}$ o ngā pāhotanga he puoro rapi/hipihope. ☐
- (v) Hokona ai te $\frac{3}{4}$ o ngā puoro katoa i ngā toa. ☐

This graph compares the music sold in stores with the music sold by streaming platforms.



(f) From the list below, tick (✓) the TWO statements that are true.

(i) About $\frac{1}{3}$ of in-store sales are rock.

☐

(ii) More than $\frac{1}{5}$ of streams are pop.

☐

(iii) Less than 10% of in-store sales are country.

☐

(iv) Over $\frac{1}{2}$ of streams are rap/hip-hop.

☐

(v) $\frac{3}{4}$ of all music is bought in-store.

☐

TE TŪMAHI TUARIMA: Te Kekeno

1.68 mita te roa o te kekeno uwaha.

E 0.48 mita te roa o tana punua hou.

- (a) E hia whakareanga te **roa ake** o te kekeno uwaha i te roa o tana punua?

whakareanga te roa ake

He kekeno uwaha me tana punua.

Me rite rawa te nui o te kai a te kekeno i ia rā ki te 4% ki te 6% o te taumaha o tōna tinana.

148 manokaramu te taumaha o tēnei kekeno.



- (b) E hia te **mōkito** o te kai me mātua kai e tēnei kekeno i ia rā?

kg

QUESTION FIVE: Seals

A mother seal is 1.68 metres long.

Her newborn pup is 0.48 metres long.

- (a) How many times **longer** is the mother seal than her pup?

times longer



A mother seal and her pup.

Seals must eat between 4% and 6% of their body weight in food each day.

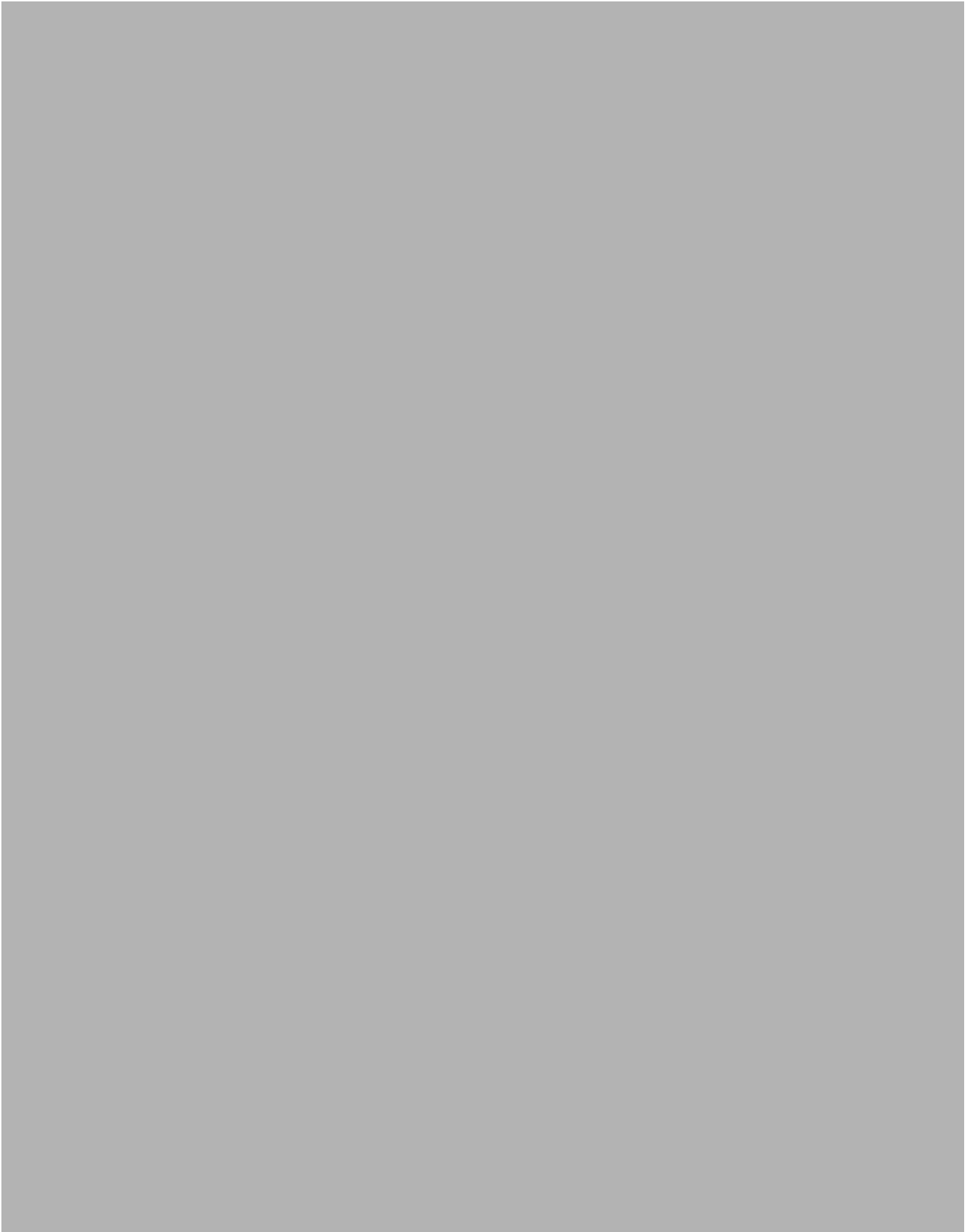
This seal weighs 148 kilograms.



- (b) What is the **minimum** amount of food this seal must eat each day?

kg

E whakaatuhia ana ngā wāhi e kitea ai te kekeno hei pū ki te mahere kei raro nei.



(c) Tohua (✓) te wāhi e kitea ai te kekeno i te pūtahi o 50.3° S me 167° E.

A ☐

B ☐

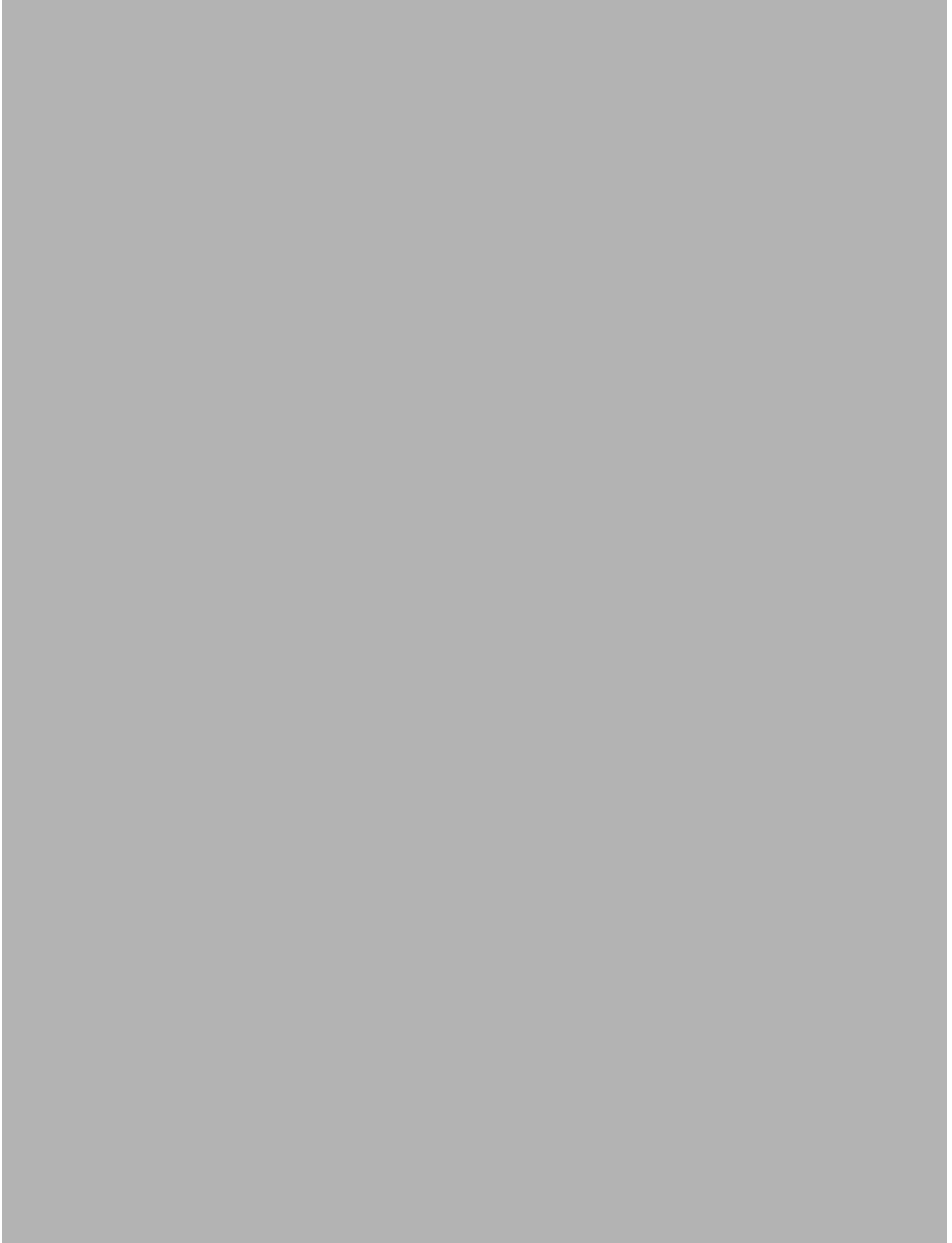
C ☐

D ☐

E ☐

F ☐

Places where seals can be found are shown as letters on the map below.

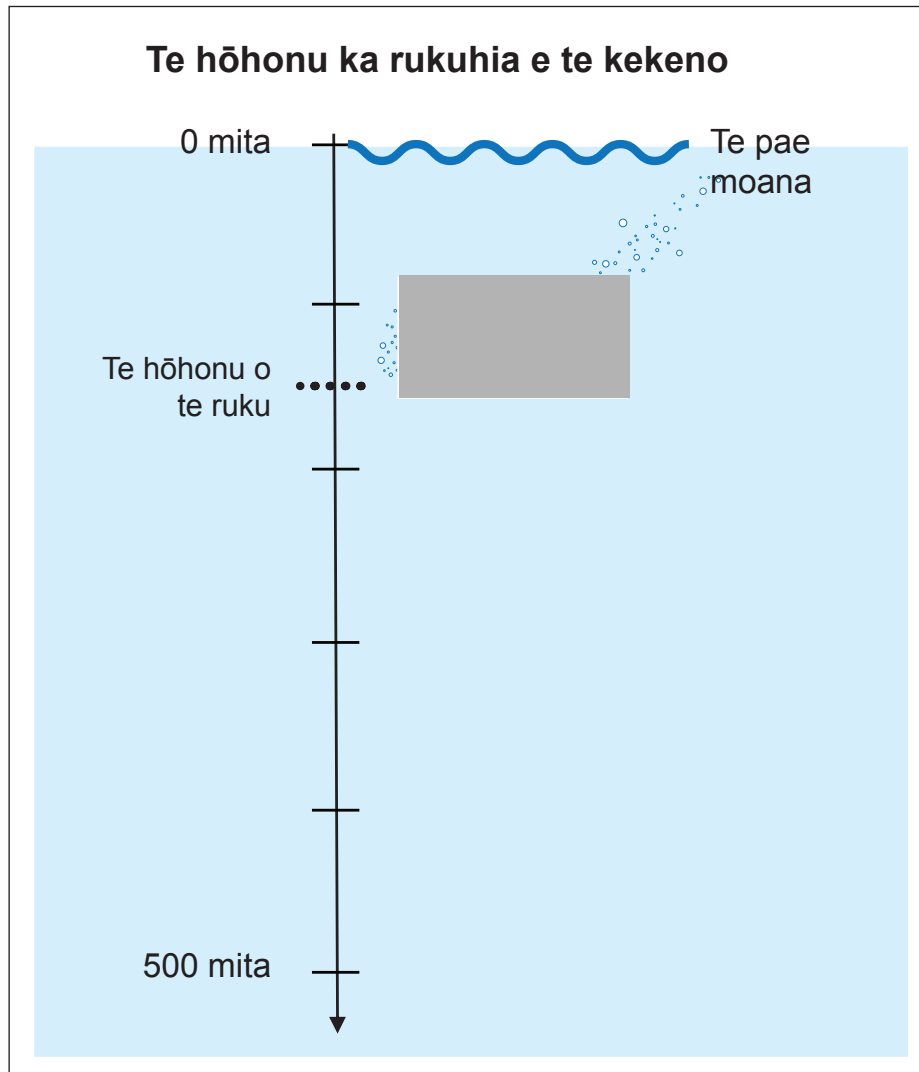


(c) Tick (✓) where seals can be found at 50.3°S and 167°E .

A ☐B ☐C ☐D ☐E ☐F ☐

He rawe te kekeno ki te ruku.

E whakaatuhia ana i tēnei rārangi tau te hōhonu ka rukuhia e tētahi kekeno.

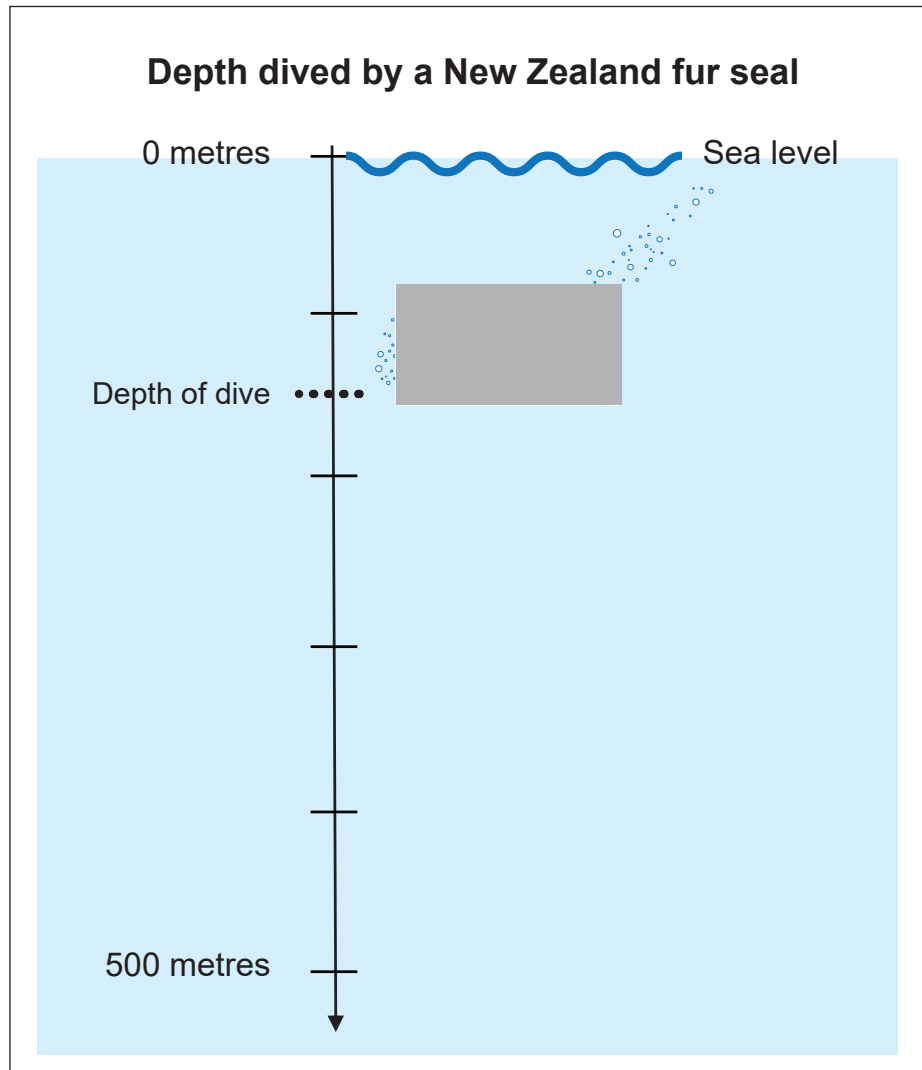


(d) Whakatau tatangia te hōhonu i rukuhia ai e te kekeno.

mita i raro i te pae moana

Seals are excellent divers.

This number line shows the depth dived by a New Zealand fur seal.

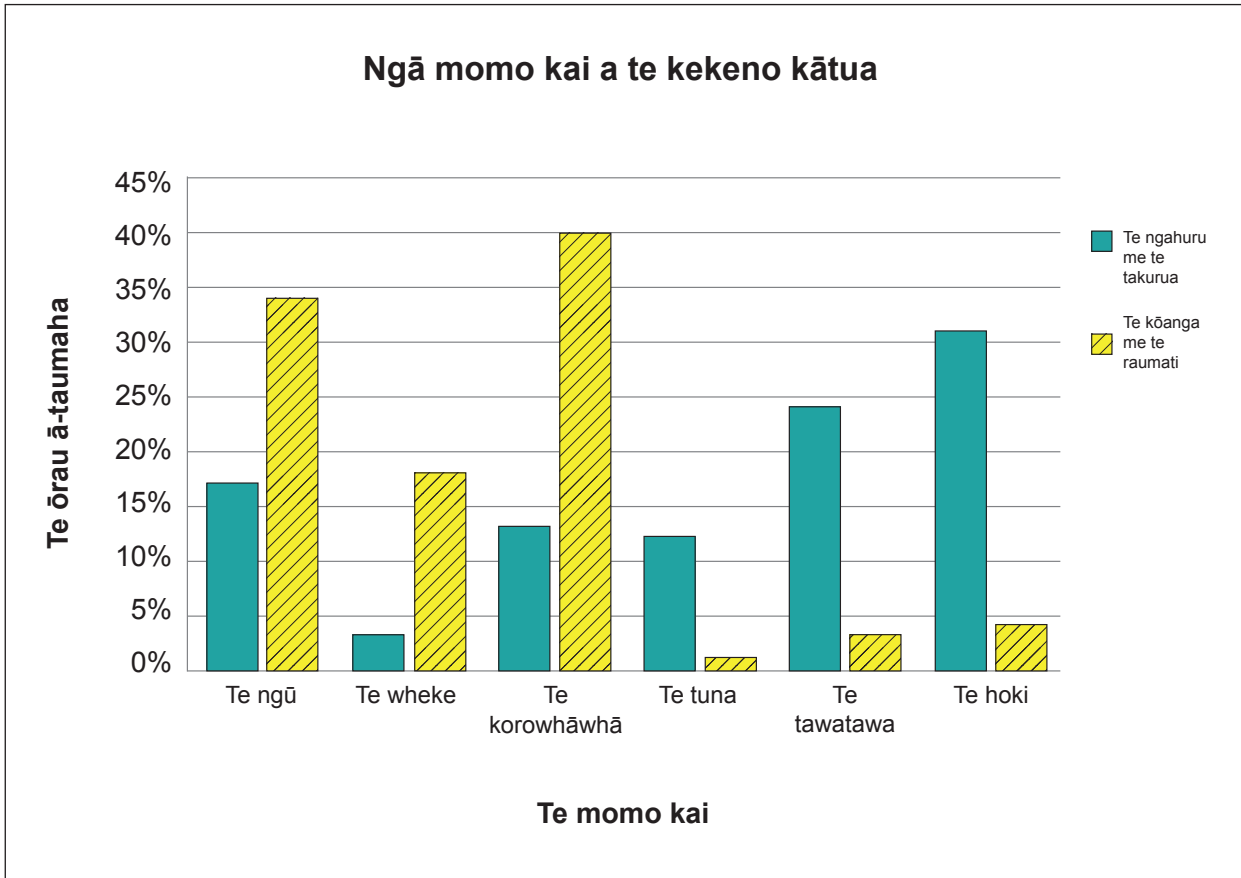


(d) Estimate the depth the fur seal dived to.

metres below sea level

E whakaatuhia ana i tēnei kauwhata te momo kai ka kainga e te kekeno i ngā wā rerekē o te tau.

E whakaatu ana ngā tae rerekē o ngā pou i ngā weheruatanga o te tau.

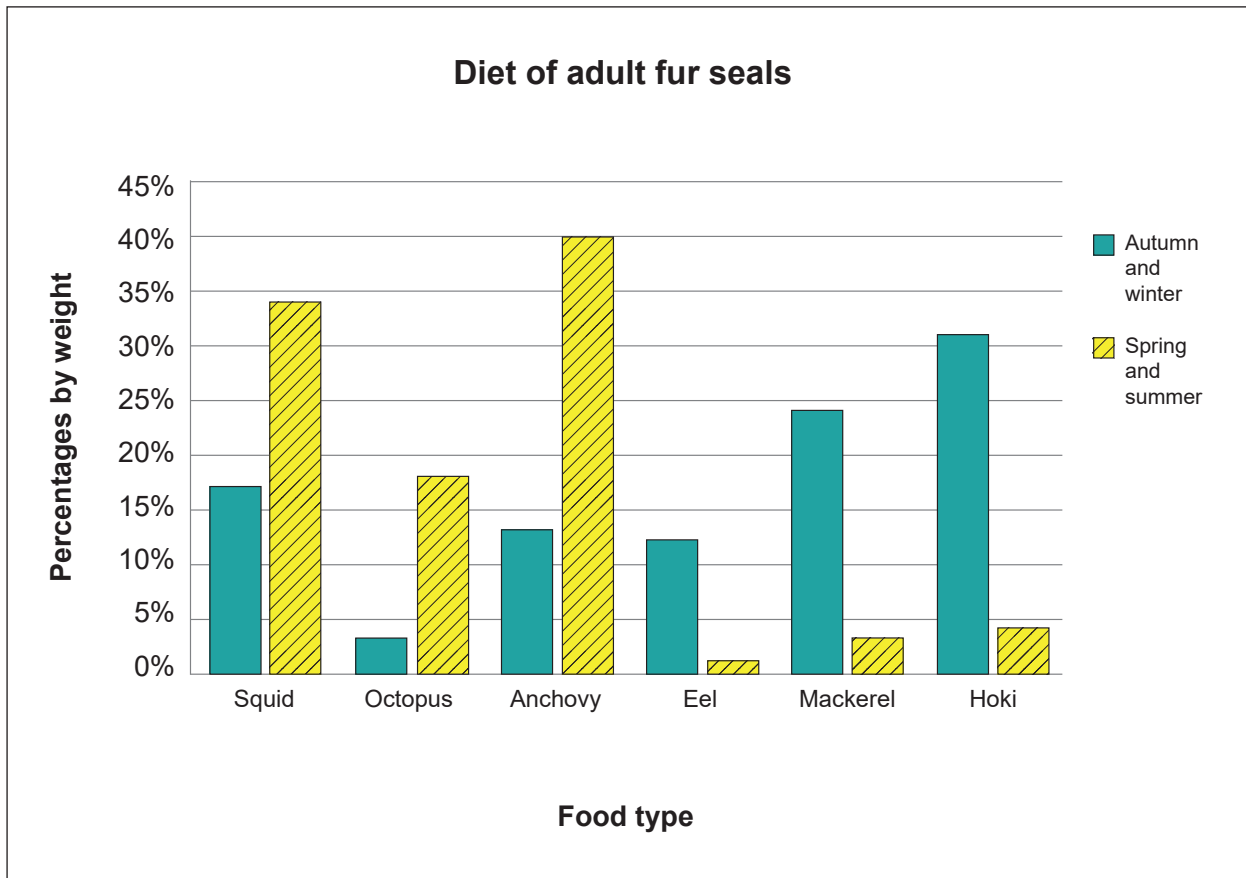


“I te ngahuru me te takurua, ko te kai matua a te kekeno ko te ngū, ko te tawatawa, me te hoki.”

(e) E whakaae ana koe? Whakamahia ngā ōrau mai i te kauwhata hei whakamahuki i tō whakautu.

This graph shows what kind of food seals eat at different times of the year.

The different coloured bars show different halves of the year.



“In autumn and winter, seals eat mostly squid, mackerel, and hoki.”

(e) Do you agree? Use percentages from the graph to explain your answer.

E whakaatu ana ngā ira i te mahere i ngā taunga o ngā kekeno i te takiwā o tētahi wāhi e kīia ana ko Te Rapa a Hau.

Kua tohua a Te Rapa a Hau ki te whetū kōwhai.

E tohu ana te ira mā i te wāhi i tau ai tētahi kekeno i muri i te terenga.



- (f) Whakamahia te āwhata i te mahere hei whakatau tata i te tawhiti i Te Rapa a Hau ki te ira mā.

km

The dots on the map show where seals have been located around a place called Ohau Point.

Ohau Point is shown by the yellow star.

The white dot shows where one seal swam to.



- (f) Use the scale on the map to estimate the distance from Ohau Point to the white dot.

km

**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 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 wahine i ngā tiripou, <https://stock.adobe.com/nz/images/woman-practicing-walking-on-crutches/249827144>

Te whārangi 2: Te hua tangata, <https://static1.squarespace.com/static/54d96b48e4b04bc268f6fde7/t/552b3b68e4b043705b2a7386/1428896616631/Sizing+and+Using+Forearm+or+Elbow+Crutches.pdf>

Te whārangi 2: Te tiripou, <https://www.mobilitycentre.co.nz/shop/crutches-walking-sticks/crutches/coopers-elbow-crutches-adult-single-adjustable-pair/>

Te whārangi 2: Te ine-koki, <https://stock.adobe.com/images/protractor-protractor-grid-for-measuring-degrees-tilt-angle-meter-measuring-tool-ai10/196681142>

Te whārangi 4: Te papa hākinakina, <https://www.landscapearchitecture.nz/landscape-architecture-aotearoa/2018/3/22/new-zealands-first-sustainable-sports-park-setting-a-new-direction>

Te whārangi 6: Te pouaka māra, <https://stock.adobe.com> (created using generative AI)

Te whārangi 6: Te pūrere horoi kaka, <https://extremeappliances.co.nz/samsung-10kg-top-load-washer-wa10a8376gw/>

Te whārangi 6: Te ipupara, <https://rotaform.co.nz/products/wheelie-bin-80-litre>

Te Tūmahi Tuarua

Te whārangi 8: Te uma o te tangata, <https://taperedmenswear.com/blogs/tapered-blog/how-to-measure-chest-size>

Te whārangi 10: Te koti, <https://dwights.co.nz/products/womens-rab-microlight-alpine-jacket?variant=48720739533095> (created using generative AI)

Te whārangi 10: Te tohukaka o te utu kua heke, <https://stock.adobe.com/images/set-of-red-sale-banners-on-white-background-ribbons-and-stickers-paper-scrolls-vector-illustration/384987350>

Te whārangi 10: Te ine-paemahana, <https://stock.adobe.com/images/thermometer-graphics/80656743>

Te whārangi 12: Ngā koti e toru, <https://stock.adobe.com> (adapted using generative AI)

Te whārangi 12: Te tohukaka, <https://stock.adobe.com/images/white-cardboard-clothing-price-tag-isolated/529658651>

Te whārangi 14: Te ine-paemahana o te tinana, <https://stock.adobe.com/images/meteorological-thermometer-glass-tube-with-mercury-and-graphic-scale-degree-vertical-indoor-or-outdoor-temperature-measuring-tool-isolated-on-white-background-vector-flat-illustration/550138686>

Te Tūmahi Tuatoru

Te whārangi 18: Te pū panana, <https://stock.adobe.com/images/5-five-bananas/27448166>

Te whārangi 20: Te tōneke o te hokomaha, <https://www.dreamstime.com/stock-illustration-shopping-carts-icon-line-sketch-doodle-style-metal-trolley-purchases-supermarket-white-background-symbol-sign-image81850982>

Te whārangi 22: Te pākete *Favourites*, <https://www.woolworths.co.nz/shop/productdetails?stockcode=631296&name=cadbury-chocolates-favourites>

Te whārangi 24: Te paura whāngote pēpē, <https://www.davidjonespharmacy.com.au/assets/full/847151.jpg>

Te whārangi 24: Te koko, <https://smartmedia.digital4danone.com/is/image/danonecs/baby-formula-scoop-1-3>

Te Tūmahi Tuawhā

Te whārangi 26: Ngā oro puoro, <https://stock.adobe.com/images/music-notes-icon-set-music-notes-symbol-vector-illustration/439874275>

Te whārangi 28: Te uhi kohinga waiata, <https://store.sonymusic.co.za/products/pink-floyd-the-division-bell-2016-version-2-lp>

Te whārangi 32: Te pāho waiata, <https://latinwmg.com/que-es-musica-en-streaming/>

Te whārangi 32: Te waea pūkoro, <https://stock.adobe.com/templates/smartphone-infographic-with-teal-ribbons/296420050>

Te Tūmahi Tuarima

Te whārangi 36: Te kekeno uwaha me te punua, <https://www.travelnaturephotography.com/prints/new-zealand-fur-seal-mum-pup>

Te whārangi 36: Te kekeno i te toka, <https://animalia.bio/new-zealand-fur-seal/1000>

Te whārangi 38: Te mahere o Aotearoa, https://as1.ftcdn.net/v2/jpg/02/67/07/84/1000_F_267078483_VKxnOzM0gpF4VVD892jNfhoEIRRX2h2O.jpg

Te whārangi 40: Te kekeno ruku, https://as1.ftcdn.net/v2/jpg/00/90/53/02/1000_F_90530260_7SzOXdDW4zElbEq7XhIDbMIBfxXmozYl.jpg

Te whārangi 44: Te mahere o ngā kekeno i Te Rapa a Hau, <https://www.doc.govt.nz/globalassets/documents/conservation/marine-and-coastal/marine-protected-areas/monitoring-factsheets/fur-seals-tracking-technology.pdf>

Acknowledgements

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

Question One

Page 3: Woman on crutches, <https://stock.adobe.com/nz/images/woman-practicing-walking-on-crutches/249827144>

Page 3: Figure outline, <https://static1.squarespace.com/static/54d96b48e4b04bc268f6fde7/t/552b3b68e4b043705b2a7386/1428896616631/Sizing+and+Using+Forearm+or+Elbow+Crutches.pdf>

Page 3: Crutch, <https://www.mobilitycentre.co.nz/shop/crutches-walking-sticks/crutches/coopers-elbow-crutches-adult-single-adjustable-pair/>

Page 3: Protractor, <https://stock.adobe.com/images/protractor-protractor-grid-for-measuring-degrees-tilt-angle-meter-measuring-tool-ai10/196681142>

Page 5: Sports park, <https://www.landscapearchitecture.nz/landscape-architecture-aotearoa/2018/3/22/new-zealands-first-sustainable-sports-park-setting-a-new-direction>

Page 7: Garden box, <https://stock.adobe.com> (created using generative AI)

Page 7: Washing machine, <https://extremeappliances.co.nz/samsung-10kg-top-load-washer-wa10a8376gw/>

Page 7: Bin, <https://rotaform.co.nz/products/wheelie-bin-80-litre>

Question Two

Page 9: Man's chest, <https://taperedmenswear.com/blogs/tapered-blog/how-to-measure-chest-size>

Page 11: Jacket, <https://dwrights.co.nz/products/womens-rab-microlight-alpine-jacket?variant=48720739533095> (created using generative AI)

Page 11: Sale label, <https://stock.adobe.com/images/set-of-red-sale-banners-on-white-background-ribbons-and-stickers-paper-scrolls-vector-illustration/384987350>

Page 11: Thermometer, <https://stock.adobe.com/images/thermometer-graphics/80656743>

Page 13: Three jackets, <https://stock.adobe.com> (adapted using generative AI)

Page 13: Clothing label, <https://stock.adobe.com/images/white-cardboard-clothing-price-tag-isolated/529658651>

Page 15: Body temperature thermometer, <https://stock.adobe.com/images/meteorological-thermometer-glass-tube-with-mercury-and-graphic-scale-degree-vertical-indoor-or-outdoor-temperature-measuring-tool-isolated-on-white-background-vector-flat-illustration/550138686>

Question Three

Page 19: Bunch of bananas, <https://stock.adobe.com/images/5-five-bananas/27448166>

Page 21: Supermarket trolley, <https://www.dreamstime.com/stock-illustration-shopping-carts-icon-line-sketch-doodle-style-metal-trolley-purchases-supermarket-white-background-symbol-sign-image81850982>

Page 23: Favourites packet, <https://www.woolworths.co.nz/shop/productdetails?stockcode=631296&name=cadbury-chocolates-favourites>

Page 25: Baby formula, <https://www.davidjonespharmacy.com.au/assets/full/847151.jpg>

Page 25: Scoop, <https://smartmedia.digital4danone.com/is/image/danonecs/baby-formula-scoop-1-3>

Question Four

Page 27: Music notes, <https://stock.adobe.com/images/music-notes-icon-set-music-notes-symbol-vector-illustration/439874275>

Page 29: Album cover, <https://store.sonymusic.co.za/products/pink-floyd-the-division-bell-2016-version-2-lp>

Page 33: Streaming, <https://latinwmg.com/que-es-musica-en-streaming/>

Page 33: Cellphone, <https://stock.adobe.com/templates/smartphone-infographic-with-teal-ribbons/296420050>

Question Five

Page 37: Mother seal and pup, <https://www.travelnaturephotography.com/prints/new-zealand-fur-seal-mum-pup>

Page 37: Seal on rock, <https://animalia.bio/new-zealand-fur-seal/1000>

Page 39: NZ map, https://as1.ftcdn.net/v2/jpg/02/67/07/84/1000_F_267078483_VKxnOzM0gpf4VVD892jNfhoElRRX2h2O.jpg

Page 41: Diving seal, https://as1.ftcdn.net/v2/jpg/00/90/53/02/1000_F_90530260_7SzOXdDW4zElbEq7XhIDbMIBfxXmozYl.jpg

Page 45: Ohau seals map, <https://www.doc.govt.nz/globalassets/documents/conservation/marine-and-coastal/marine-protected-areas/monitoring-factsheets/fur-seals-tracking-technology.pdf>

English translation of the wording on the front cover

32406 TERM 2

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

☐

+



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 | 26–30 MAY 2025

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 2–51 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.

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