Kia ‘akakī‘ia e te tangata te tārērē‘ia nei

NSN

Te Numero o te ‘Āpi‘i (School Code)

NA TE ARONGA ‘AKATERETERE I TE TĀRĒRĒ‘ANGA ANAKE

See back cover for an English translation of this cover

Tikoti‘ia a roto i te pi‘a (☒) me KĀRE KOE i tātā ana ki roto i teia puka

32406C TU‘ANGA ‘API‘I (TERM 2)

NZQA | Mana Tohu Mātauranga o Aotearoa
New Zealand Qualifications Authority

Numero 2025

32406C Ta‘anga‘anga‘ia te au numero, e te statistics kia tau i te au mea mātau‘ia na roto i te au ra tatakita‘i

Credits: Ta‘i nga‘uru

‘EPETOMA TA‘I |
RA 19–23 O MĒ I TE MATA‘ITI 2025

TE AU MEA TEI TUPU	
1	‘Anga‘ia te au rāvenga numero, e te statistical, no te ‘akatanotano‘anga i te au manatā, i roto i te au mea mātau‘ia na roto i te au ra tātakita‘i.
2	Ta‘anga‘anga‘ia te au numero, e te statistics kia tau ki te au anoano numero, i roto i te au mea mātau‘ia na roto i te au ra tatakita‘i.
3	‘Akamārama‘ia te au pa‘u‘anga numero, e te statistical, no runga i te au turanga.

Tukuna‘ia to‘ou National Student Number (NSN), e te School Code, ki roto i te ātea i runga ake nei.

E tau kia tāmata koe i te au ui‘anga POUROA, i roto i teia puka.

Me te anoano ra koe i teta‘i ngā‘i ke atu no teta‘i pa‘u‘anga, ta‘anga‘anga‘ia te ātea tei ‘ōronga‘ia atu, i muri ake i teia puka.

‘Ākara meitaki kia tu teia puka i te kapi 2–51, kia tau te tārē‘anga mei mua ki te ‘openga, kāre ‘okota‘i o teia au kapi e va (blank) ana.

‘Auraka e tātā ki roto i te au tapa (margins) (////). Ka tīpu‘ia teia ngā‘i, me māka‘ia te puka.

KIA ‘ŌRONGA ATU KOE I TEIA PUKA, KI TE TANGATA ‘AKATERETERE I TE TĀRĒRĒ, ME OTI TEIA TĀRĒRĒ‘ANGA.

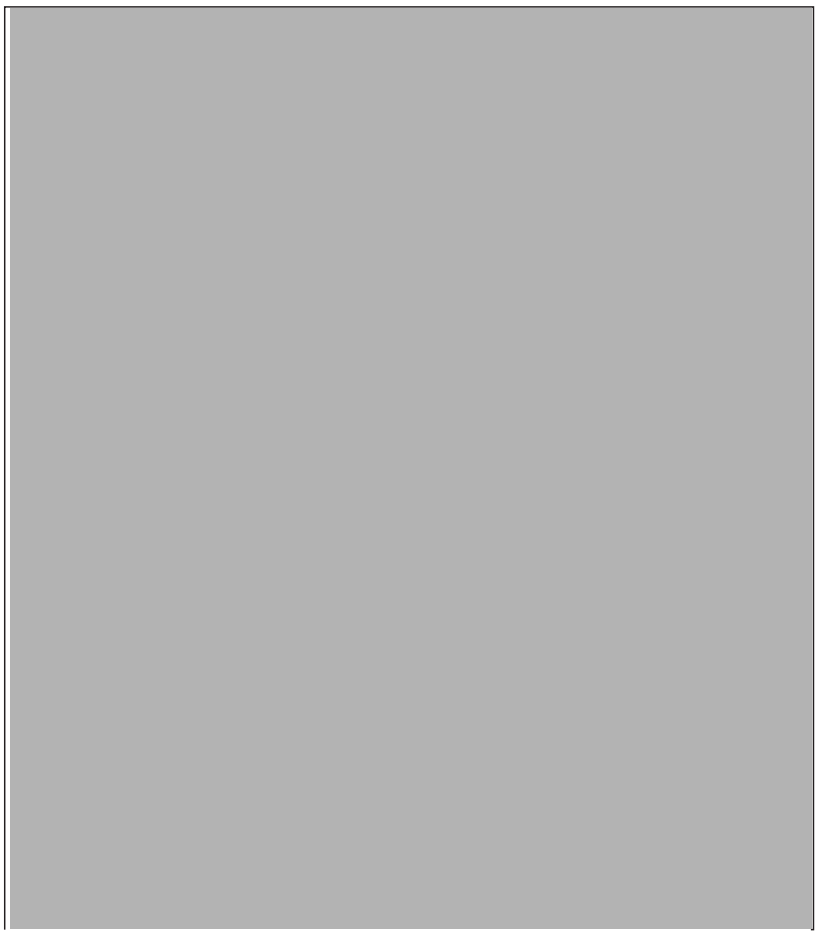
UIʻANGA TAʻI: Te anoano tauturu nei a Māmī

E nga tokotoko (crutches) to Māmī, no tetaʻi toru ʻepetoma.

Te karanga nei ʻaia, "Mei te 30,000 miniti, te toru ʻepetoma".

(a) Kua tano āinei tāna? Tāʻangaʻangaʻia te kimikimiʻanga ora (time calculations), i te ʻakamārama i taʻau paʻuʻanga.

Ka anoanoʻia nga tokotoko (crutches) o Māmī, kia ʻakatanoʻia kia ʻāmingi tōna rima ki te taʻa (angle) tano.



(b) ʻĒʻia i reira, tikirī (degrees) te taʻa tano?

°

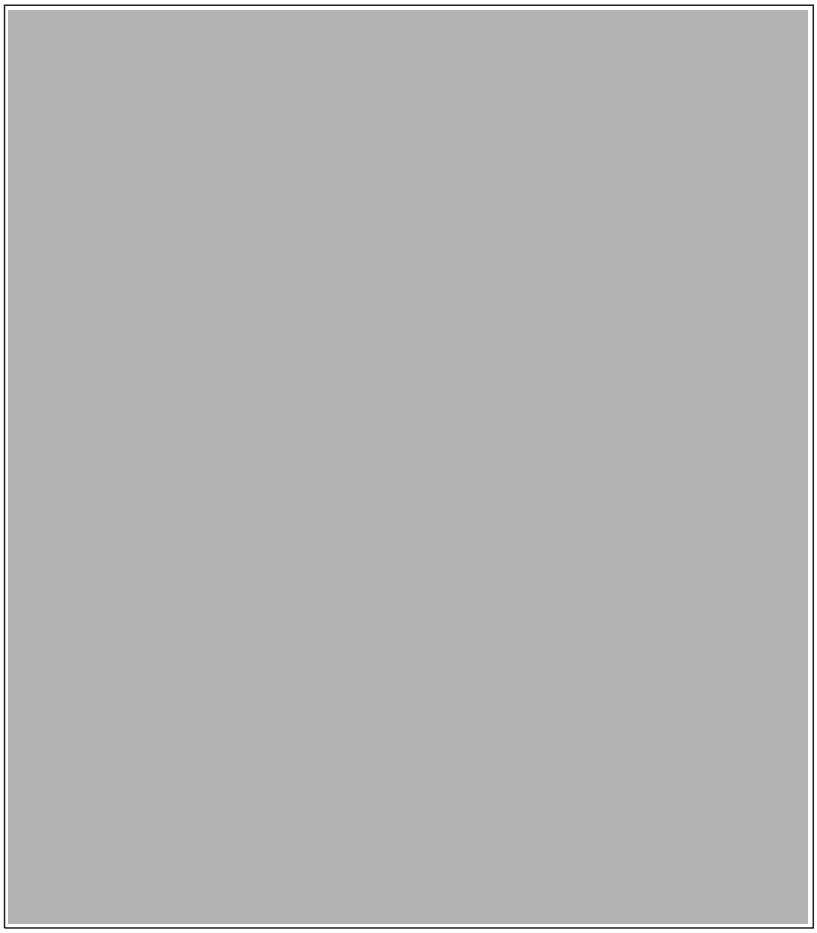
QUESTION ONE: Mum needs help

Mum will be on crutches for three weeks.

She says, "Three weeks is about 30,000 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?

°

Te ʻakaʻāʻaere nei teta‘i taeake, i te puakaāoa a Māmi. Te ʻakaāri mai nei, te rāina potopoto i runga i te māpu, i te ara ka āru rāua.

Te ʻakairo mai nei te **X**, i teta‘i 400 mita o te ara, mei te ʻakamataʻanga o te ʻāʻaereʻanga.

(c) Pataʻia te piʻa (✓) te ʻakaāri ra i te maʻataʻanga tano no teia māpu.

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 400 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 ◯

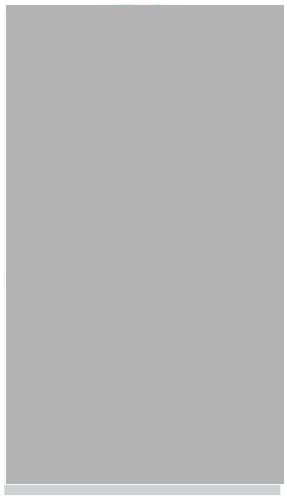
Te anoano nei a Māmi i teta‘i pi‘a tanutanu, kia ‘akakī‘ia ki te one, no te tanu kiko-‘enua.

(d) ‘Ēa‘a i reira, te ma‘ata i roto i te cubic metres, (m^3) o te one, te ka anoano‘ia?

m^3

Te tāru nei a Tētī, e 7 kilograms kāka‘u, ki roto i te matīni pu‘a kāka‘u.

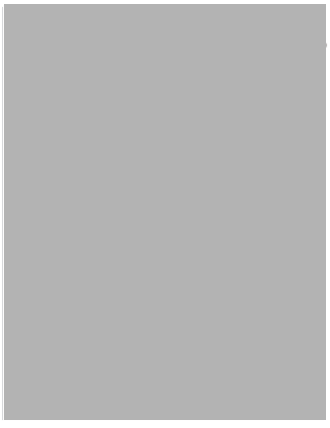
Me mā te kāka‘u i te pu‘a, e 1.8 taime, te teima‘a atu, o te kāka‘u mā‘ū, i te kāka‘u marō.



(e) ‘Ēa‘a i reira te teima‘a o te kāka‘u **mā‘ū** i roto i te tāre‘anga kilograms?

kg

Te kite atu ra a Māmī ē, ‘ē ⅔ te ki o te vairanga-tītā 240-litre.



(f) ‘Ēa‘a i reira i roto i te tārē‘anga litres, **toe** i roto i te vairanga-titā?

L

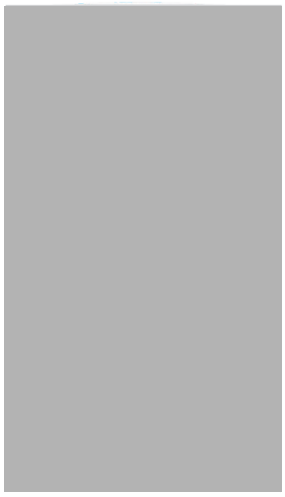
Mum needs to have a garden box filled with dirt to grow vegetables.

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

[ ] m^3

Dad puts 7 kilograms of clothes into the washing machine.

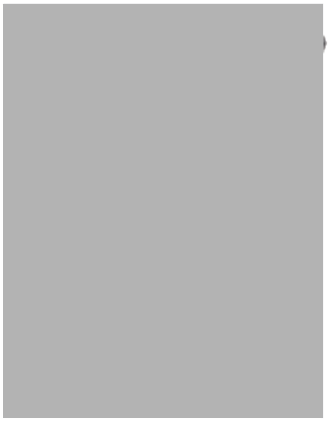
After washing, the wet clothes weigh 1.8 times as much as the dry clothes did.



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

[ ] kg

Mum notices that the 240-litre rubbish bin is ⅔ full.



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

[ ] L

UIʻANGA RUA: Pereue

E tūkētūkē te maʻatamaʻata o te au pereue.

Te vāito	Umauma (cm)	Kōpu (cm)	Rima roa (Sleeve) (cm)
Meangiti atu (X-Small)	86–88	71–73	81–83
Meangiti (Small)	89–95	74–76	84–85
Tau ʻua (Medium)	96–105	77–84	86–88
Maʻatamaʻata (Large)	106–111	85–94	89–90
Maʻatamaʻata atu (X-Large)	112–122	95–101	91–93

E 91 cm te vāito i to Tiāki rima (sleeve length), ʻē, e 110 cm te vāito i tōna umauma.

Te tāmanako nei a Tiāki e, ko te pereue ʻLarge’ te maʻamaʻata meitaki rava atu i te ʻoko.

(a) Te ʻakatika āinei koe? Tāʻangaʻangaʻia te au vāitoʻanga mei roto i te ʻakapapaʻanga, i te ʻakamārama i taʻau paʻuʻanga.

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 91 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.

ʻĒ $189, te tutaki no teia pereue, i te maʻataʻanga o te taime.

Me ʻoko pātē, ka tipuʻia noʻou tetaʻi 25%.

(b) ʻĒaʻa i reira te tutaki ʻōko pātē o te pereue?

$ ☐

I tetaʻi taime, e arataki'anga tetaʻi no te vāitoʻanga i te temperature-range.

Te arataki'anga no te temperature-range o te pereue.

(c) Pataʻia te piʻa (✓) no te vāitoʻanga i te temperature range tau no te pereue tei maʻaniʻia no te medium weight.

(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 $189.

On sale, you get 25% 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 medium-weight jacket is made for.

(i) 10 °C to 20 °C ○

(ii) −1 °C to 10 °C ○

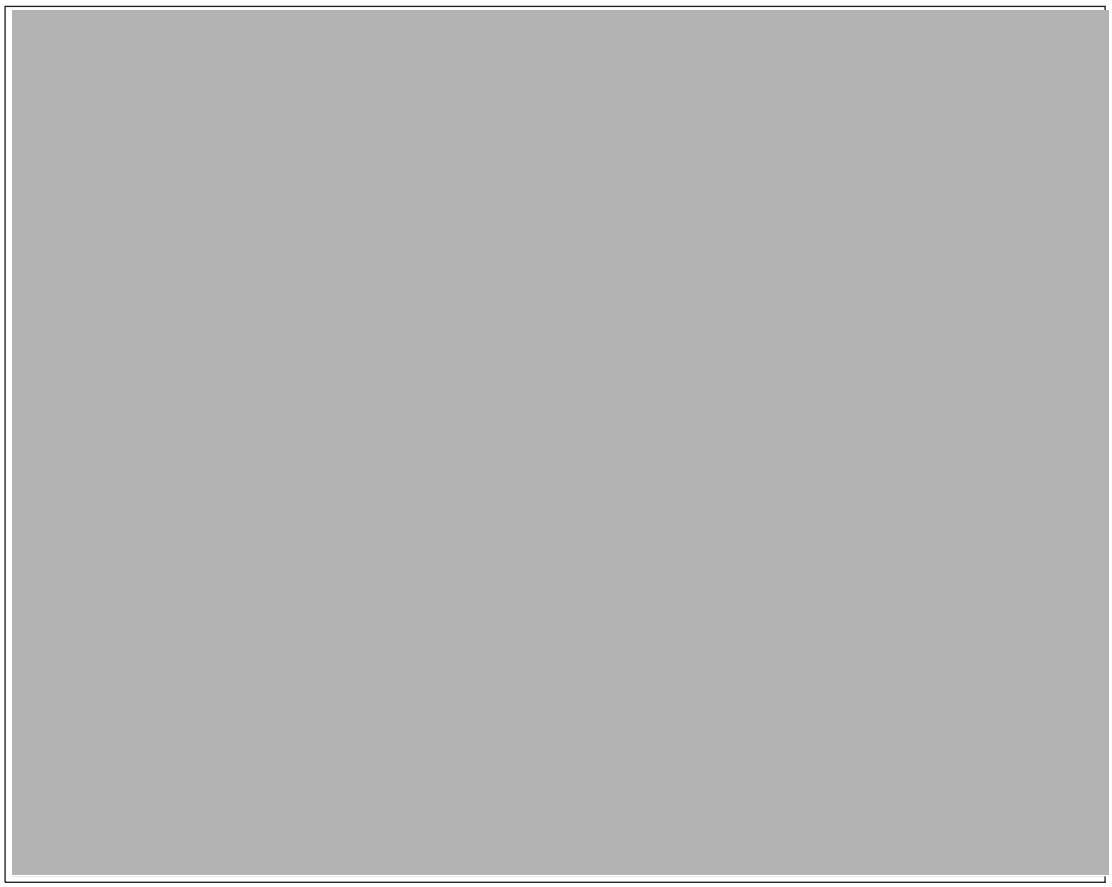
(iii) −6 °C to −1 °C ○

(iv) −20 °C to −6 °C ○

(v) −30 °C to −20 °C ○

Ka ʻakamāʻana atu tetaʻi pereue iā koe, me e turanga teitei atu, to te ʻapinga i ʻakakiʻia ai (higher fill quality) (FQ).

Teia te au uiʻanga ui putuputu ʻia (FQs), te teimaʻa, e te tutaki no te au pereue e toru.



(d) ʻE tika āinei te karangaʻia nei e, ʻe maʻata atu te tutaki i te au "Pereue high FQ, māri ra, e māmā ake te teimaʻa i te au Pereue low-FQ"?

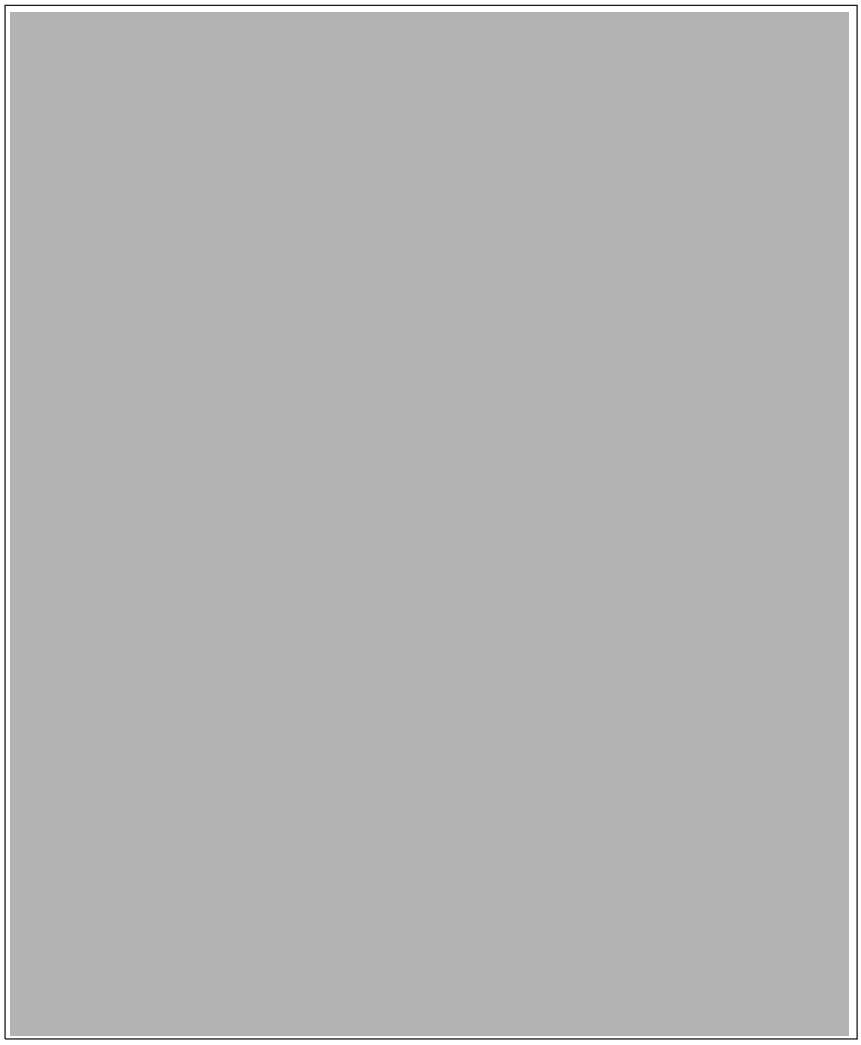
Tāʻangaʻangaʻia te au numero ʻakairo (tags) no runga i tetaʻi ʻua ake o nga pereue e rua, i te ʻakamārama i taʻau paʻuʻanga.

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"?

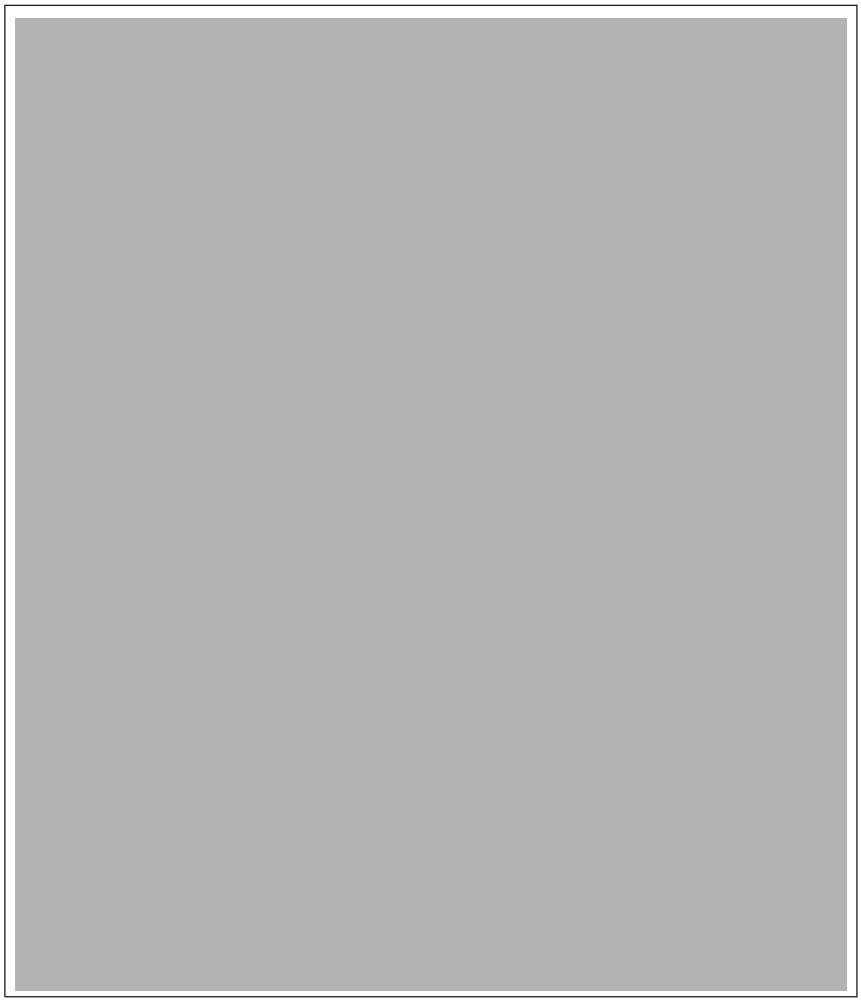
Use numbers from any two jacket tags to explain your answer.



I te tuātau tāmatamataʻanga i tetaʻi pereue, ē 15.1 °C, te maʻana ʻiā roto i te pereue. ʻE −2.8 °C, te maʻana iā vaʻo.

(e) ʻĒaʻa i reira te tūkē i rotopu i te 15.1 °C ʻē te −2.8 °C?

[ ] °C

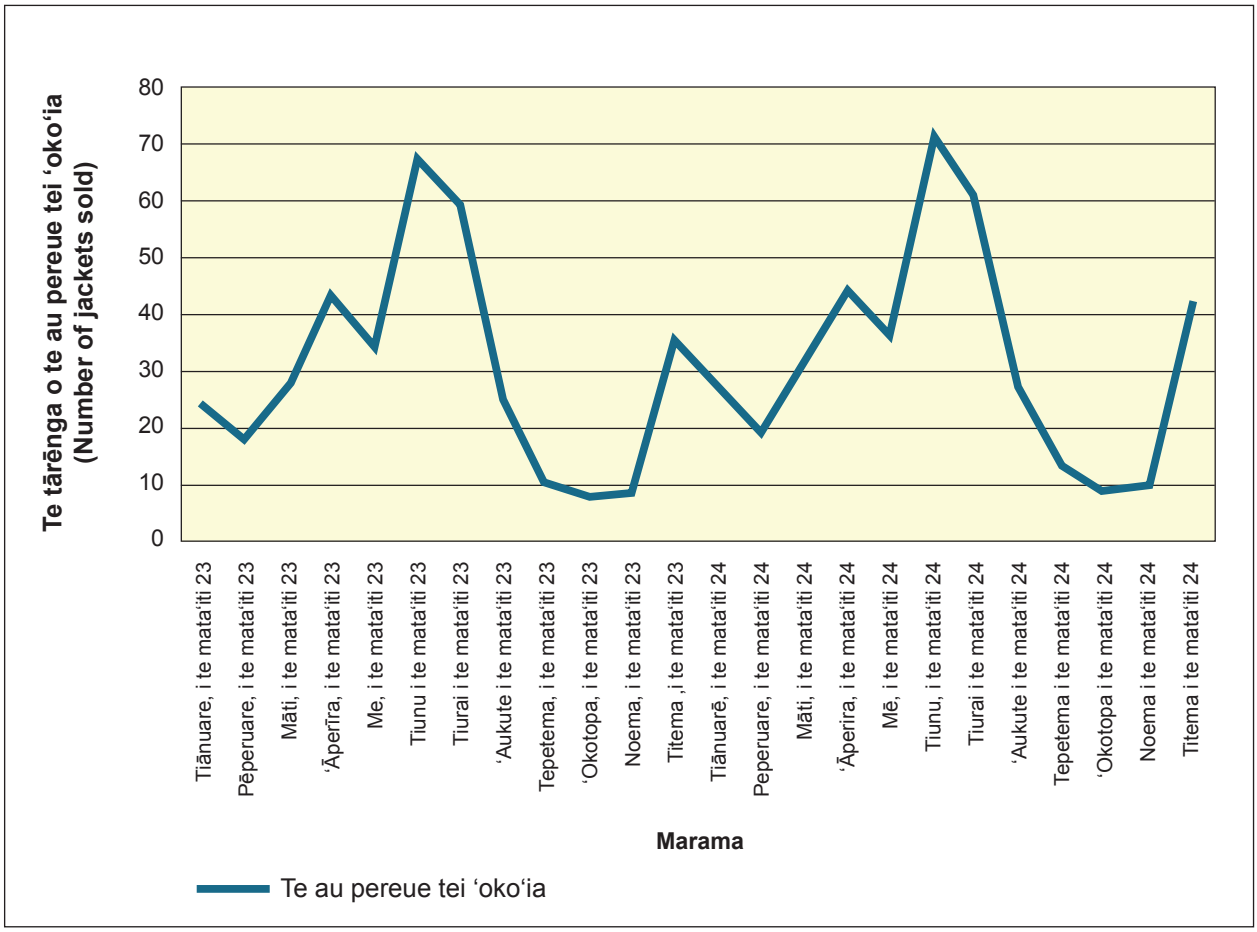


While testing a jacket, the inside temperature of the jacket was measured at 15.1 °C.
The outside temperature was measured at −2.8 °C.

(e) What is the difference between 15.1 °C and −2.8 °C?

[ ] °C

Te ʻakaāri mai nei te graph i raro ake nei, i te tārēʻanga o te au pereue, tei ʻokoʻia i roto i tetaʻi toa, i te mataʻiti 2023, e te mataʻiti 2024.

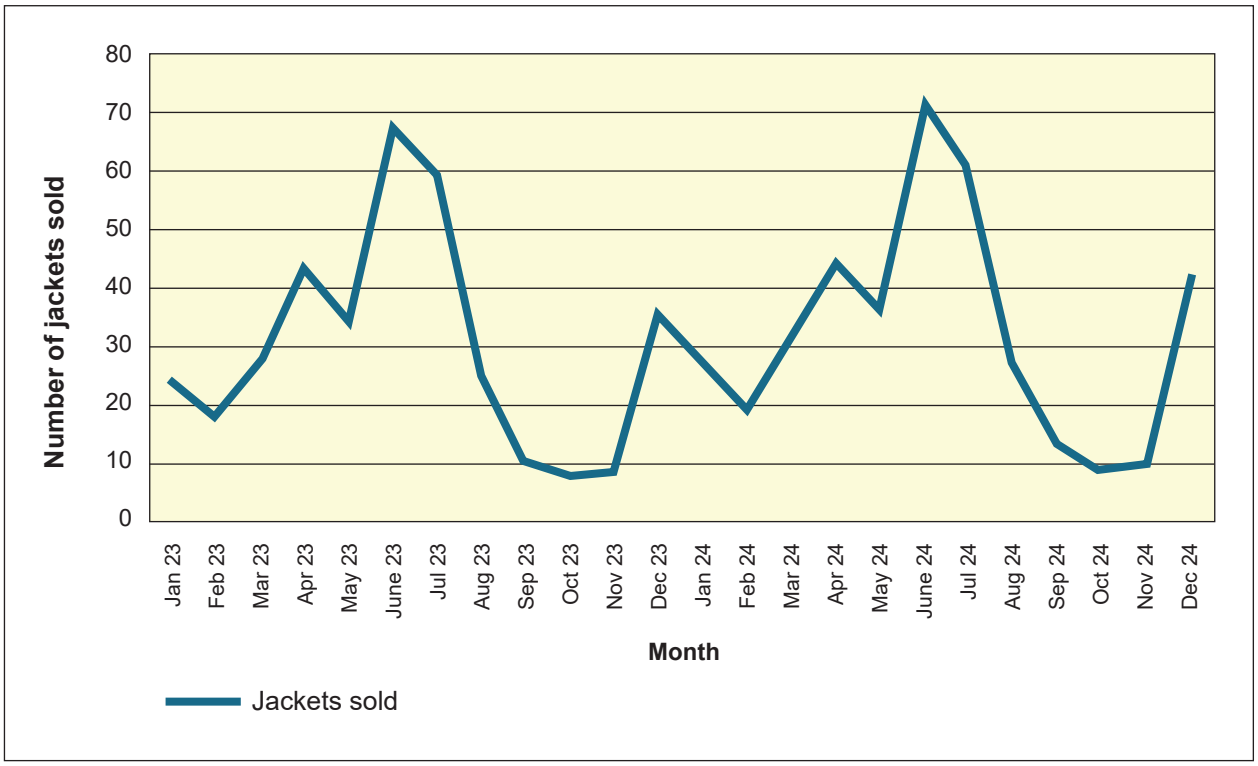


ʻAkamatakiteʻanga: *Ko te au marama, Tiunu, Tiurai, e ʻAukute, te au marama anu rava atu. Ko te au marama, Titema, Tiānuare, e Pēperuare te au marama vera rava atu.*

"E maʻata atu te au pereue, e ʻokoʻia ana, me anu te reva, me ʻakaʻāiteʻia ki te tuātau vera."

(f) Te ʻakatika āinei koe? Taʻangaʻangaʻia te ʻakakitekiteʻanga mei roto mai i te graph, i te ʻakamārama i taʻau paʻuʻanga.

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



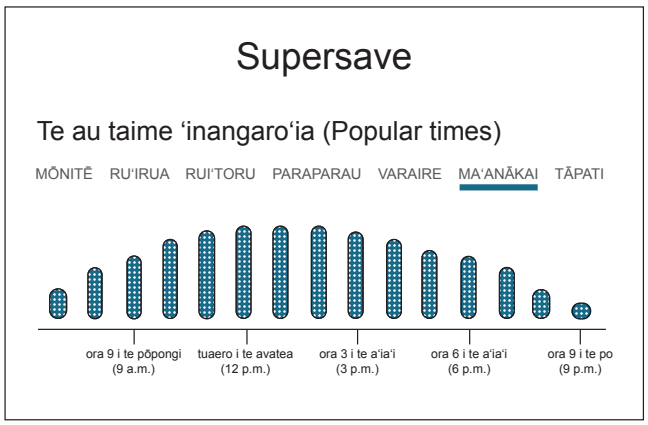
Note: June, July, and August are the coldest months. December, January, and February are the hottest months.

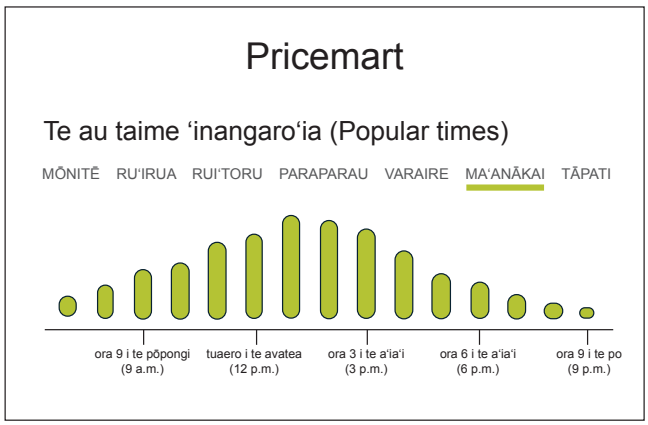
"More jackets are sold when the weather is cold than when it is hot."

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

UI‘ANGA TORU: Te ‘oko‘oko‘anga i ko i te toa ‘oko kai (supermarket)

Te ‘inangaro ra koe, i te‘aere ki ko i te toa a teta‘i Ma‘anākai, i teta‘i ‘ua atu taime, i muri ake i te 12 p.m. E reka ana koe i te toa ‘oko kai (supermarket), e ma‘ata te tangata i roto.





(a) ‘Ēa‘a i reira ta‘au toa ‘oko kai (supermarket) ka ‘iki, ko te Supersave, me kore ra, ko te Pricemart, ‘ē, ‘ēa‘a te taime tau no‘ou i te ‘aere?

Tā‘anga‘anga‘ia te ‘akakitekite‘anga mei roto mai i te au graphs, i te ‘akamārama i ta‘au pa‘u‘anga.

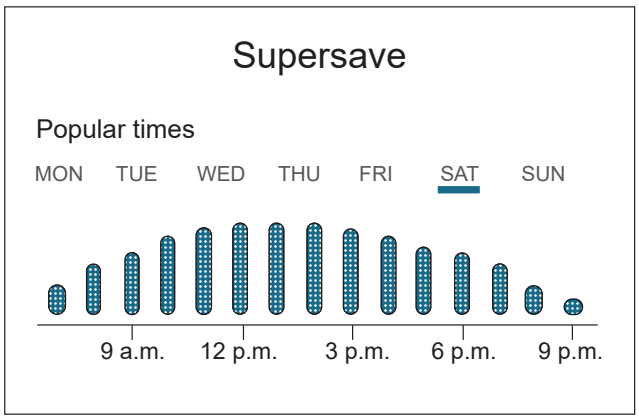
‘Ē $3.29 i te kilogram, te moni no te meika.

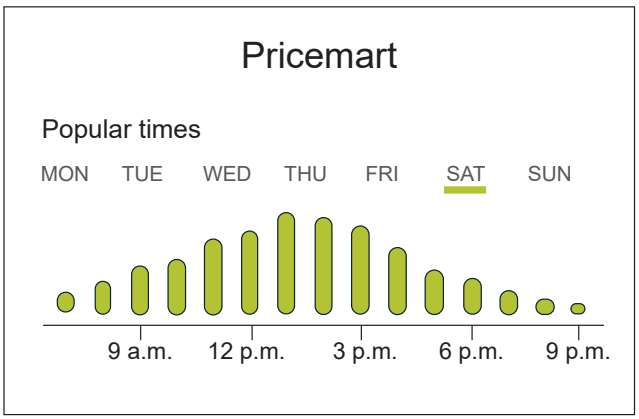
(b) ‘Ēa‘a i reira te tutaki no teta‘i tā meika, e 685 grams te teima‘a? ‘Akataeria ta‘au pa‘u‘anga, ki te tene vaitata rava atu.

$

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 685 grams? Round your answer to the nearest cent.

$ ____

‘Ē 192 centimetres te roāngarere, no teta‘i rāina pere‘ō supermarket e **rima**.

‘Ē 144 centimetres te roāngarere, no teta‘i rāina pere‘ō supermarket e **toru**.

Te kite ra koe, ka ō te pere‘ō tātakita‘i ki roto i te mea i mua.

(c) Me tāru‘ia atu ‘okota‘i ‘aka‘ōu pere‘o, ki teta‘i ‘ō nga rāina, ‘ēa‘a i reira te ‘akakake‘anga o te roāngarere o te rāina? Tātā‘ia ta‘au pa‘u‘anga, ki roto i te centimetres.

cm

A ‘Ē $13.79 -te tutaki i te 1 kilogram, potonga tīti ‘ē $8.19, te tutaki no teta‘i 500-gram potonga, o taua tītī rāi, ‘ē, e $6.19 te tutaki no teta‘i 250-gram potonga, o taua tīti katoa.

(d) Ko te‘ea i reria te potonga tīti māmā rava atu, me vāito na roto i te 100 grams? Tā‘anga‘anga‘ia te teima‘a, e te tutaki, i te ‘akamārama i ta‘au pa‘u‘anga.

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.

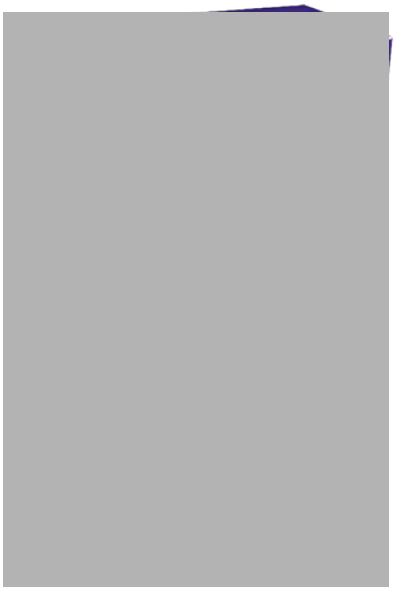
(c) When one extra trolley is added to either line, how much does the total length of the line increase by? Write your answer in centimetres.

[ ] 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.

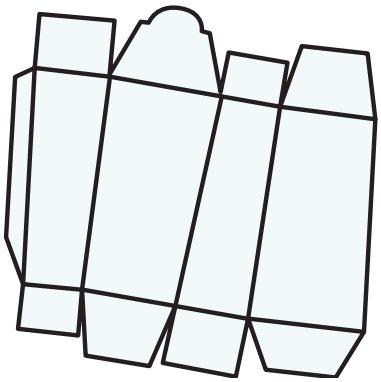
(d) Which block of cheese is the cheapest per 100 grams? Use the weights and prices to explain your answer.

Te ʻakaāri mai nei te tūtū i raro ake nei i tetaʻi paeketi Cadbury *Favourites*.

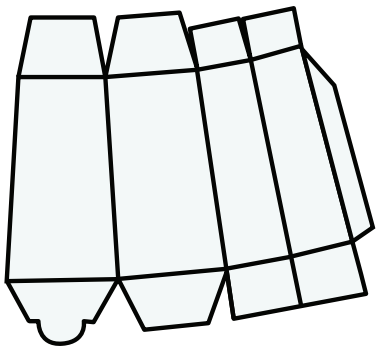


(e) Pataʻia te piʻa (✓) te kupenga (flat pattern) te ka rauka i te ʻaʻatu, i te maʻani i te paeketi *Favourites*.

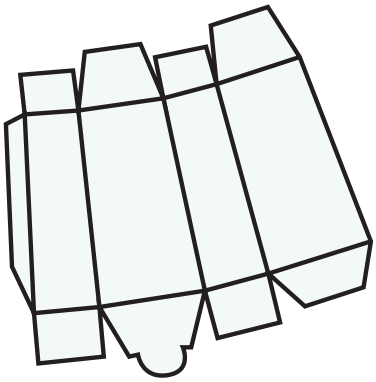
(i) ○



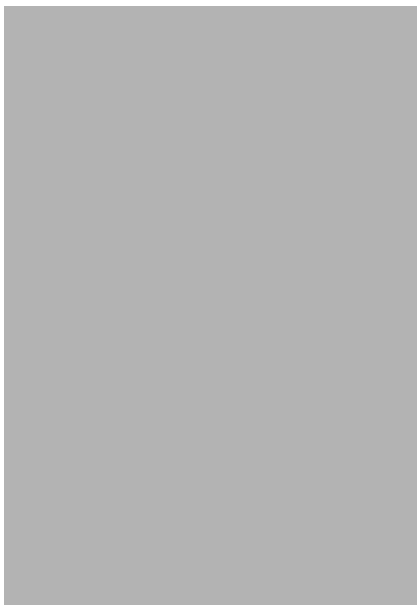
(ii) ○



(iii) ○

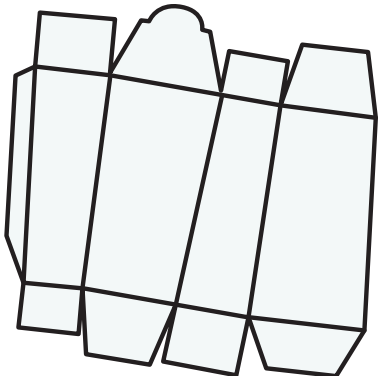


The image below shows a Cadbury *Favourites* packet.

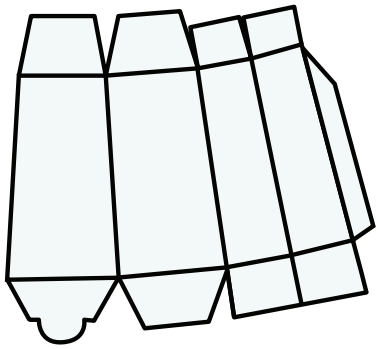


(e) Tick (✓) the net (flat pattern) that would fold to make the *Favourites* packet.

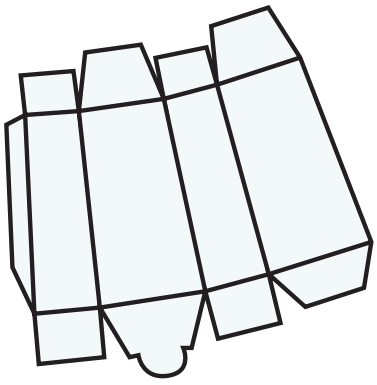
(i) ◯



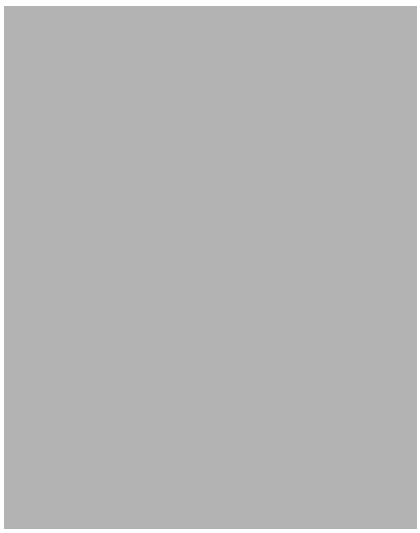
(ii) ◯

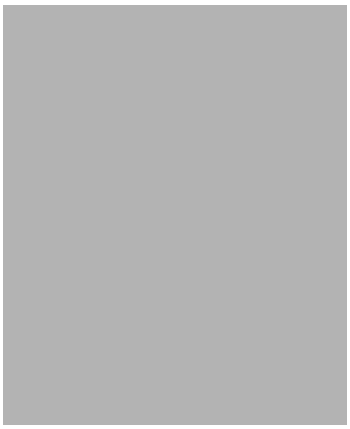


(iii) ◯



Ka mou te vairanga, e ʻakaāriʻia mai nei i raro ake,ʻē 900 grams ū-marō, na te pēpē.





ʻokotaʻi kapu ū-maro a te pēpē.

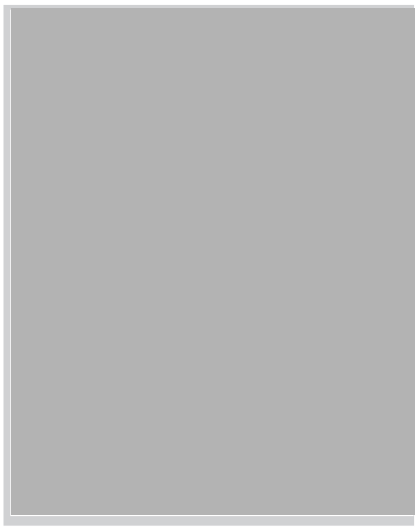
Ka rauka iā koe i te maʻani, i te ʻokotaʻi ʻāngaiʻanga na te pēpē, mei roto i te kāʻiroʻanga, e rua kapu ū-marō, ki te vai.

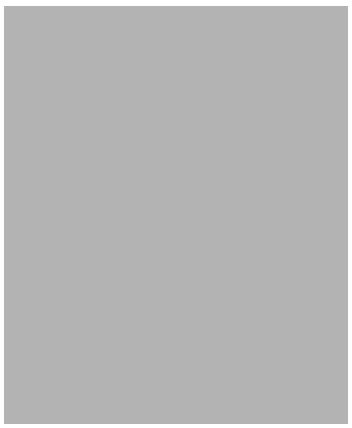
ʻĒ 16 grams, te katoaʻanga o te teimaʻa o nga kapu ū-maro e rua.

(f) ʻĒʻia i reira ʻāngaiʻanga, te ka rauka kia maʻaniʻia, mei roto i te vairanga 900 gram?

☐ au ʻāngaiʻanga

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 16 grams in total.

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

[ ] feeds

Ulʻ ANGA ʻĀ: Music

Kua maʻaniʻia te ruturutu (beat) i roto i te music, e te au tangiʻanga tūkētūkē te roa.

= 1 ruturutu (beat)	= ½ ruturutu (beat)	= ¼ ruturutu (beat)
Crotchet	Quaver	Semiquaver

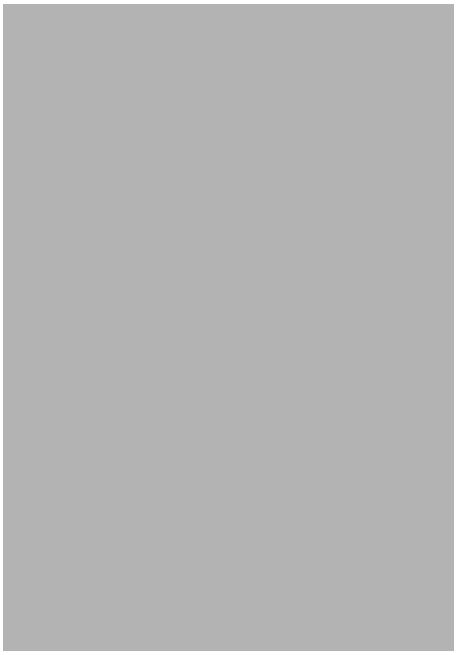
(a) Pataʻia te piʻa (✓) te ʻakapapaʻanga tangitangi (notes), me kāpipitiʻia i te maʻani i tetaʻi **ruturutuʻanga katoa** e ʻā.

(i) ○

(ii) ○

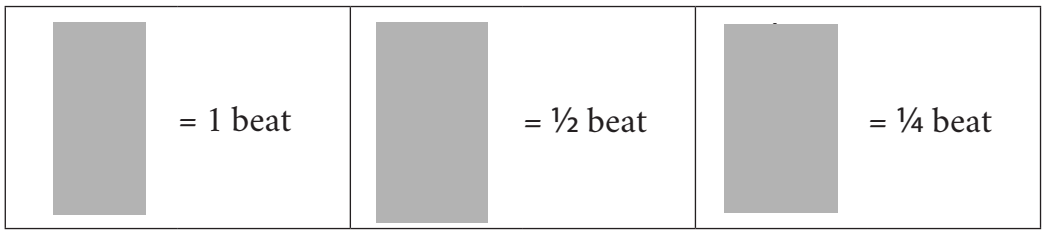
(iii) ○

(iv) ○



QUESTION FOUR: Music

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



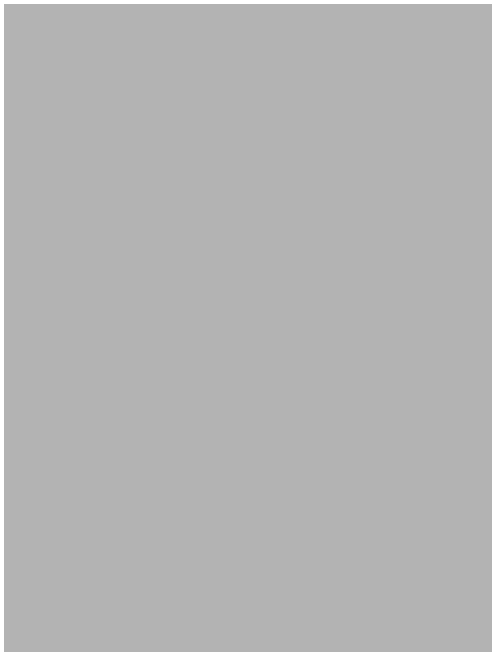
(a) Tick (✓) the set of notes that adds together to make a **total** of four beats.

(i) ○

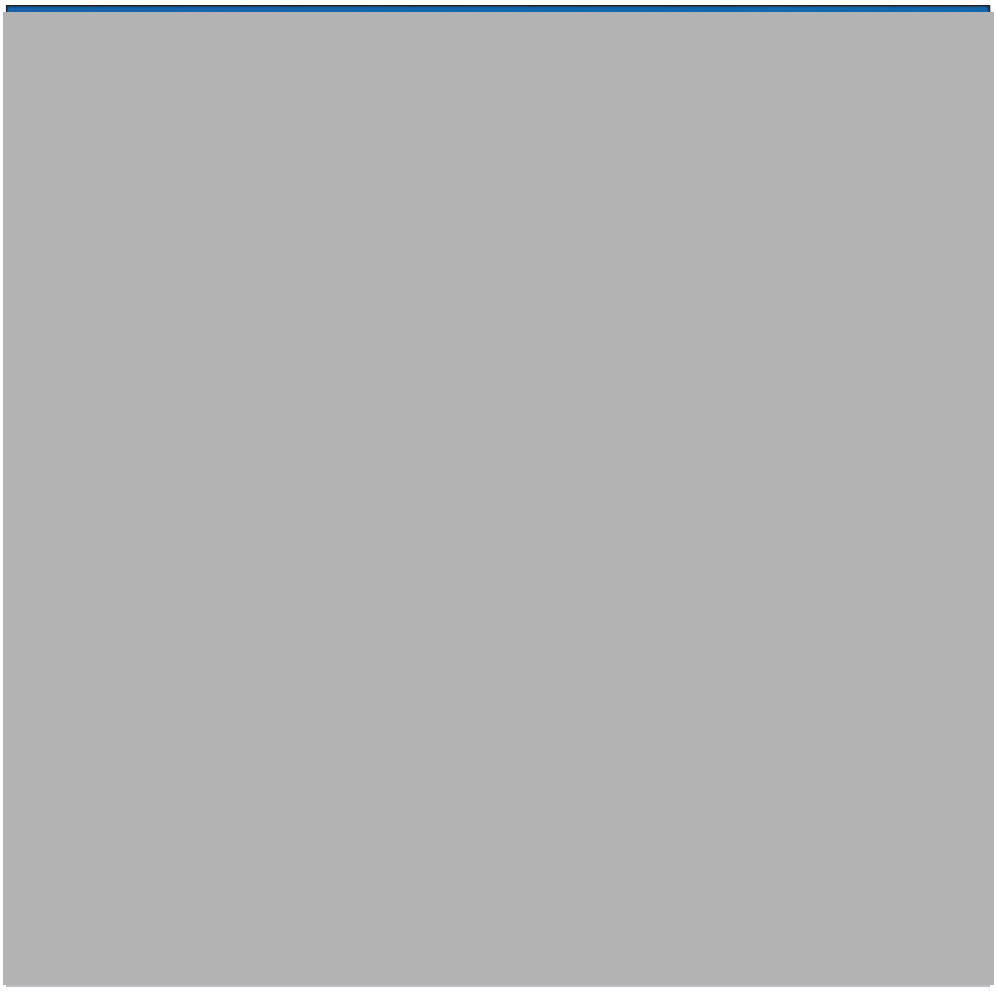
(ii) ○

(iii) ○

(iv) ○



E auvaro album rongonui teia. ʻE mānganui ʻua atu te mirror symmetry, i runga i teia auvaro.



(b) ʻĀkara meitaki i te auvaro. Mei roto mai i te ʻakapapaʻanga i raro ake nei, pataʻia te piʻa (✓) nga tuʻanga e RUA o te tūtū **e** mirror symmetry to rāua.

(i) Te mata ◯

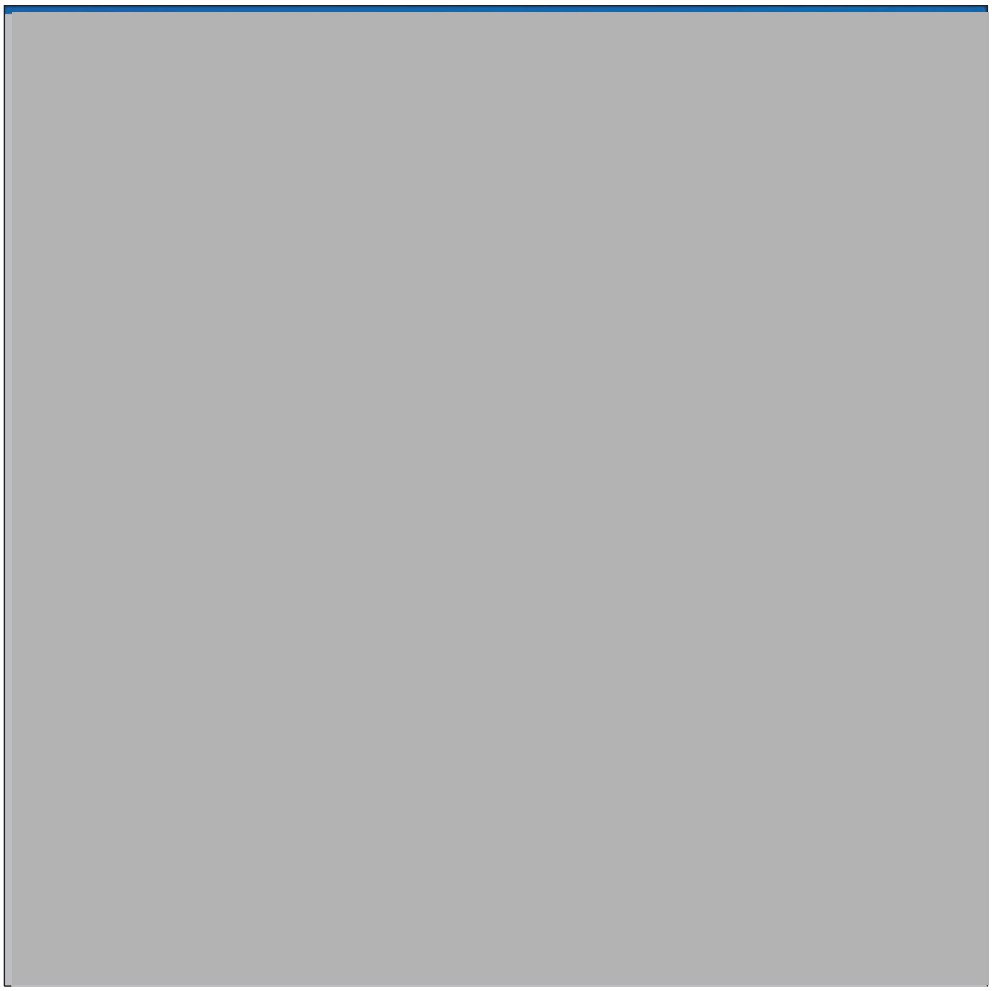
(ii) Te au tumu rākau ◯

(iii) Te rangi ◯

(iv) Te ʻare ◯

(v) Te au putāngiʻu ◯

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 ◯

Me āruʻia te ʻāverēti, e ʻakarongo ana te tangata, e 988 ora music i te mataʻiti. ʻĒ 52 ʻepetoma i roto i te mataʻiti ʻokotaʻi.

(c) Me āruʻia te ʻāverēti, ʻēʻia i reira ora **i te ʻepetoma**, e ʻakarongo ana te tangata ki te music?

[ ] te ora i te ʻepetoma

Te ʻakaāri mai nei te ʻakapapaʻanga i raro ake nei, i te au tu ʻīmene tūkētūkē, i runga i tetaʻi ʻakakpapaʻanga ʻakatangi (playlist). ʻĒ 200 ʻīmene, i te katoaʻanga.

Te tu `īmene (Type)	Te tārē`anga (Count)
Pop	50
Rock	46
Rap	34
Tetaʻi atu (Other)	70

(d) Me ʻiki pērā ʻuaʻia (random) tetaʻi ʻīmene, ko te ʻirinakiʻangaʻia e, ka riro paʻa ko te pop song?

Tātāʻia taʻau paʻuʻanga ei patene (percentage)

[ ] %

On average, people listen to 988 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.

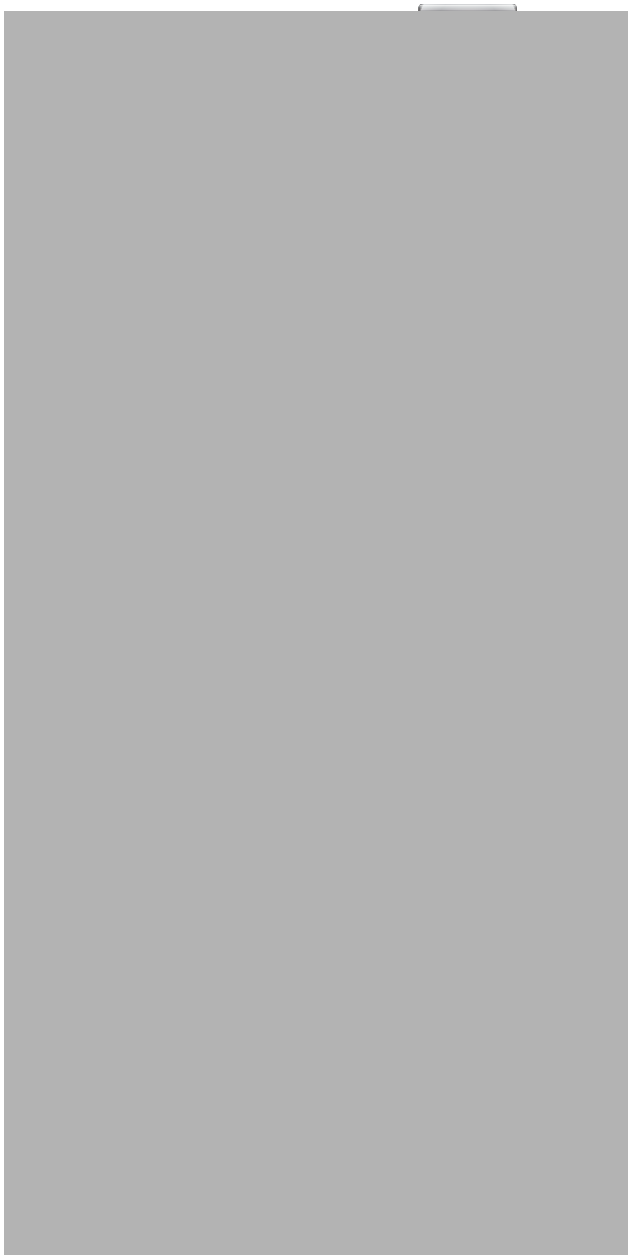
Type	Count
Pop	50
Rock	46
Rap	34
Other	70

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

Write your answer as a percentage.

[ ] %

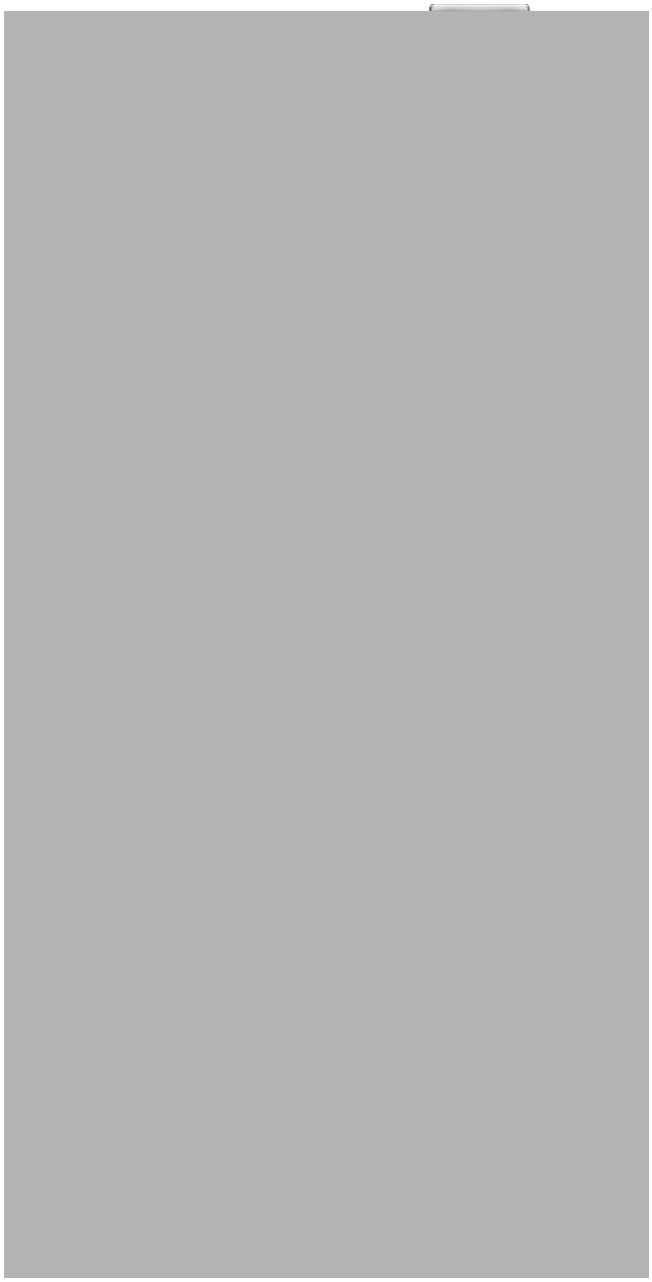
Te ʻakaāri mai nei te ʻakapapaʻanga i raro ake nei, i te tutaki no tetaʻi artist, i te au taime tātakitaʻi, me stream tetaʻi tangata i ta ratou ʻīmene. ʻĒ ʻitu taʻua tūkētūkē no te streaming.



"ʻĒ ʻōronga ana te Amazon Music i te tutaki meitaki rava atu ki te artist."

(e) Te ʻakatika āinei koe? Tāʻangaʻangaʻia te au numero mei roto mai i te ʻakapapaʻanga, i te ʻakamārama i taʻau paʻuʻanga.

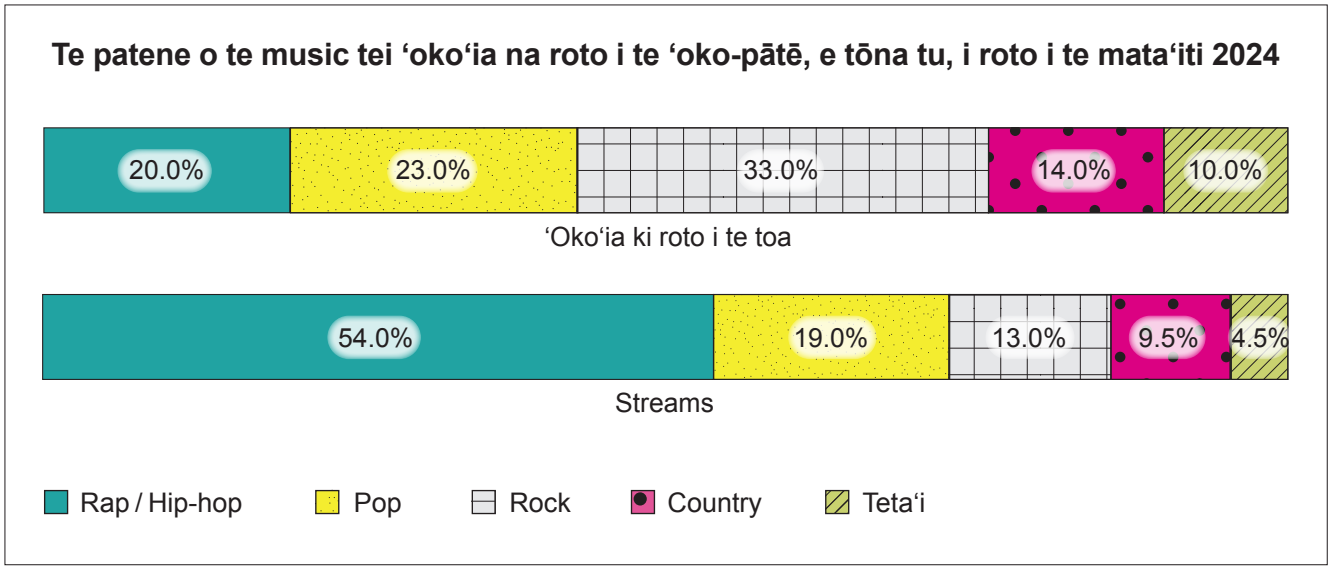
The table below shows how much an artist gets paid each time someone streams their song. There are seven different streaming platforms.



"Amazon Music gives artists the best deal."

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

Te ʻakaʻāite nei te graph, i te music e ʻokoʻia ana i roto i te au toa, ki te music e ʻokoʻia ana na runga i te au taʻua streaming.



(f) Mei roto mai i te ʻakapapaʻanga i raro ake nei, pataʻia te piʻa (✓) o nga statements e RUA te ʻakakite ra i te tika.

(i) Kua tere atu i te ½ o te streams, ei rap / hip-hop. ◯

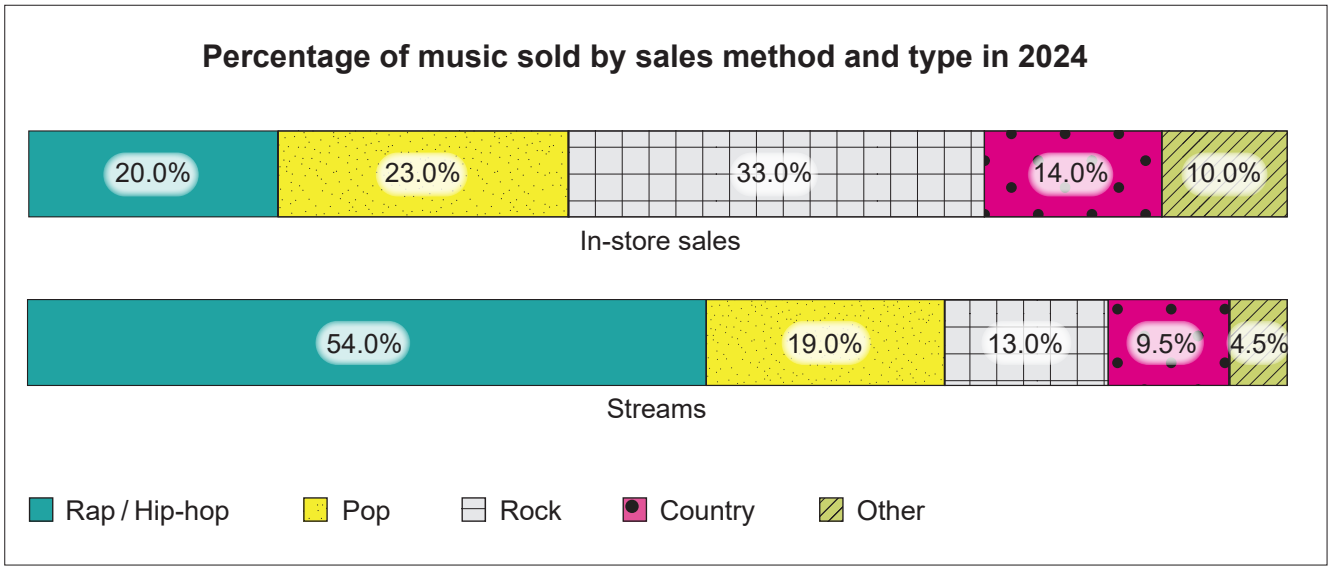
(ii) Kua tere atu i te ⅕ o te streams ei pop. ◯

(iii) ʻĒ ʻokoʻia ana, e ¾ o te music kātoatoa, ki roto i te toa. ◯

(iv) Mei te ⅓ o te mea ʻokoʻia i roto te toa, e rock. ◯

(v) Tei raro ake i te10% o te mea ʻokoʻia i roto i te toa, e country. ◯

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) Over ½ of streams are rap / hip-hop. ○

(ii) More than ⅕ of streams are pop. ○

(iii) ¾ of all music is bought in-store. ○

(iv) About ⅓ of in-store sales are rock. ○

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

UIʻANGA RIMA: Seals

ʻĒ 1.26 metres te roāngarere i te tinana seal.

ʻĒ 0.45 metres, te roāngarere o tāna punua ʻānau ʻōu.

(a) ʻĒʻia taime i reira, te **roāngarereʻanga atu** o te tinana seal, i tāna punua?

☐ te taime roāngarereʻanga atu

ʻE tinana seal, e tāna punua.

ʻĒ tau kia kai te seal i te kai mei te 4% e te 6% o te teimaʻa o to rātou kopapa, i te au ra tātakitaʻi.

ʻĒ 160 kilograms te teimaʻa o te seal.

(b) ʻĒaʻa i reira te kai **kotinga iti** e tau kia kai te seal, i te au ra tātakitaʻi?

☐ kg

QUESTION FIVE: Seals

A mother seal is 1.26 metres long.

Her newborn pup is 0.45 metres long.

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

[ ] times longer

A mother seal and her pup.

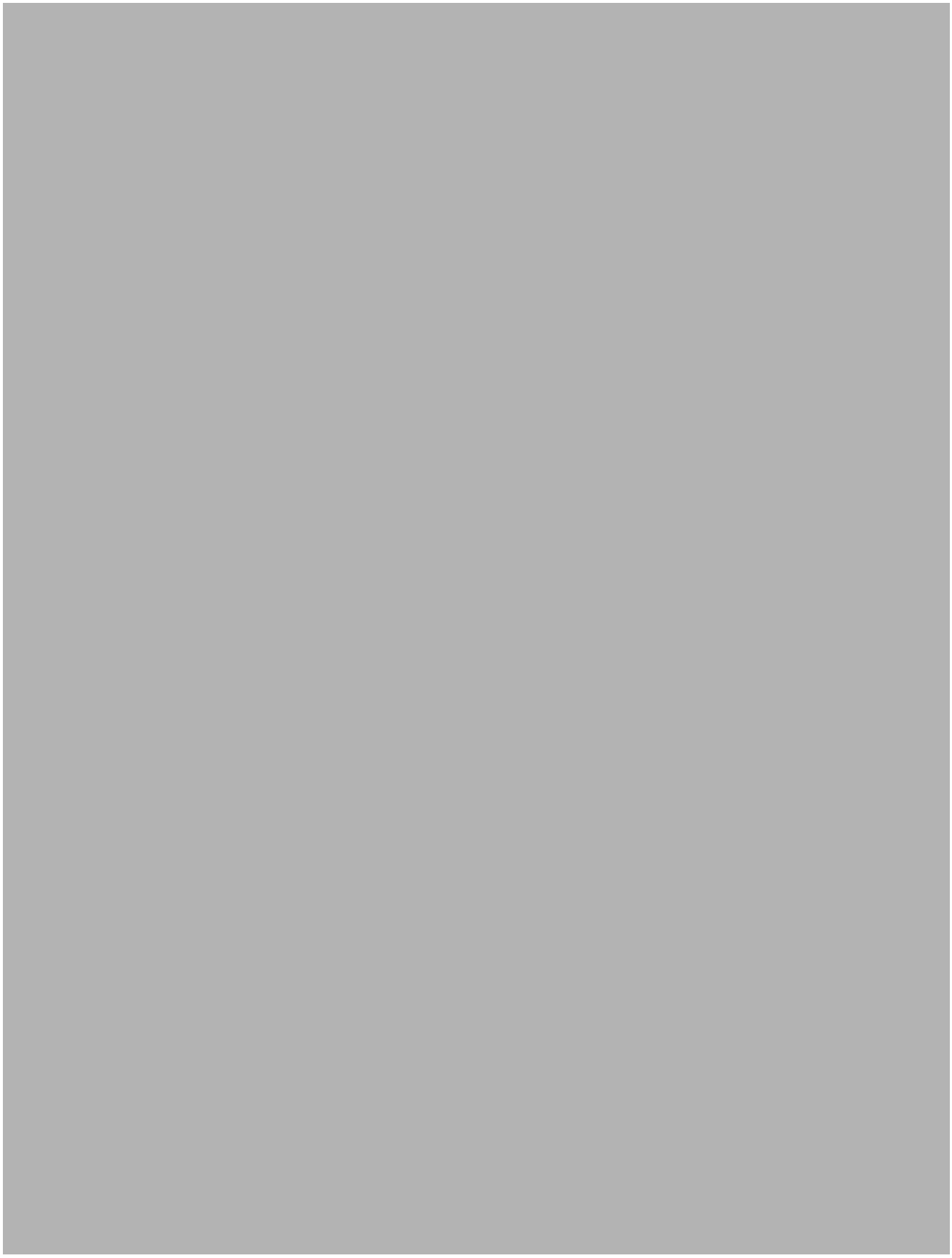
Seals must eat between 4% and 6% of their body weight in food each day.

This seal weighs 160 kilograms.

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

[ ] kg

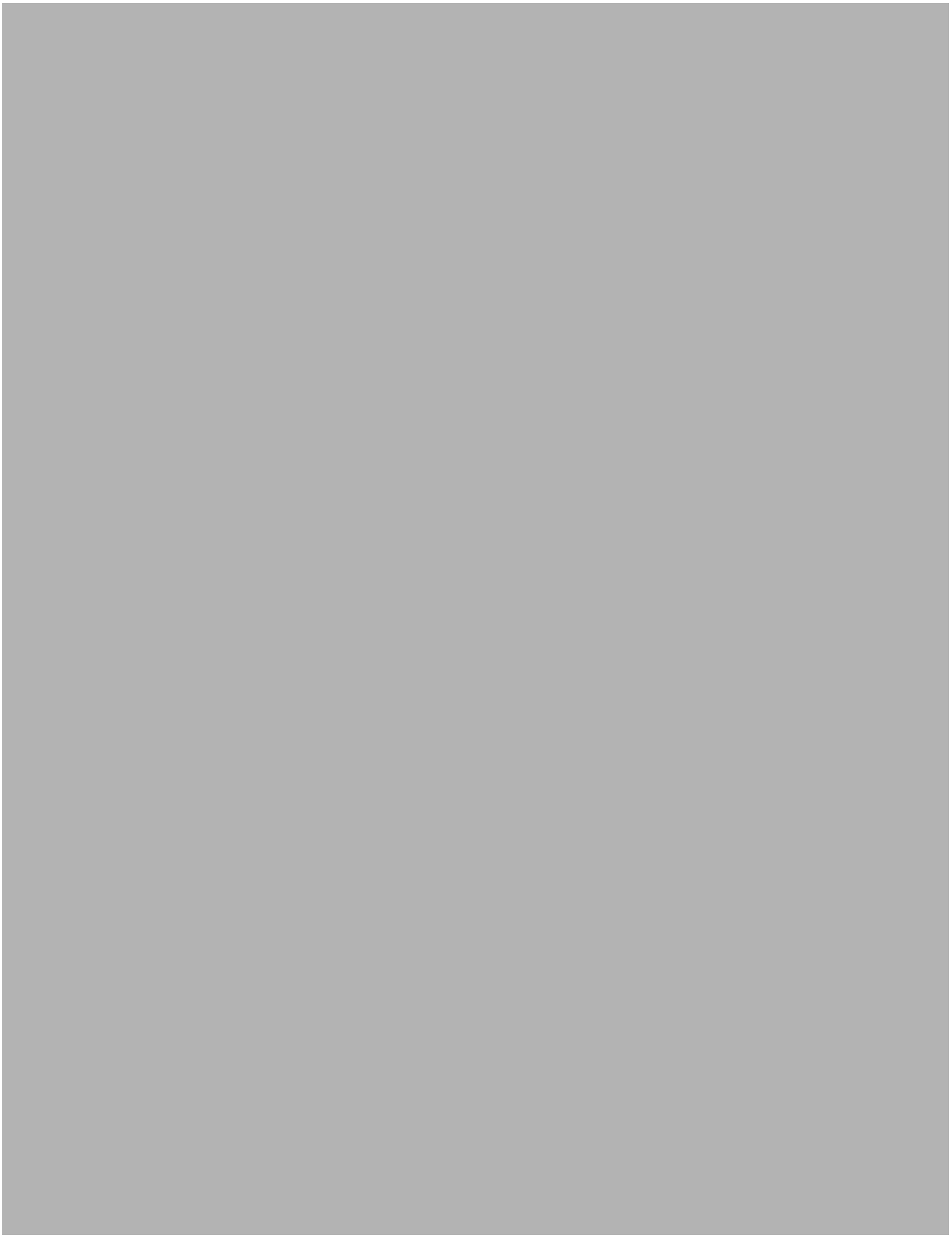
Te ʻakaāriʻia mai nei te au ngāʻi e kiteaʻia ana te seal, e te au reta, i runga i te māpu i raro ake nei.



(c) Pataʻia te piʻa (✓) te ngāʻi e kiteaʻia ana te seal, i te 42.4° S e te 173.7° E.

A ◯ B ◯ C ◯ D ◯ E ◯ F ◯

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

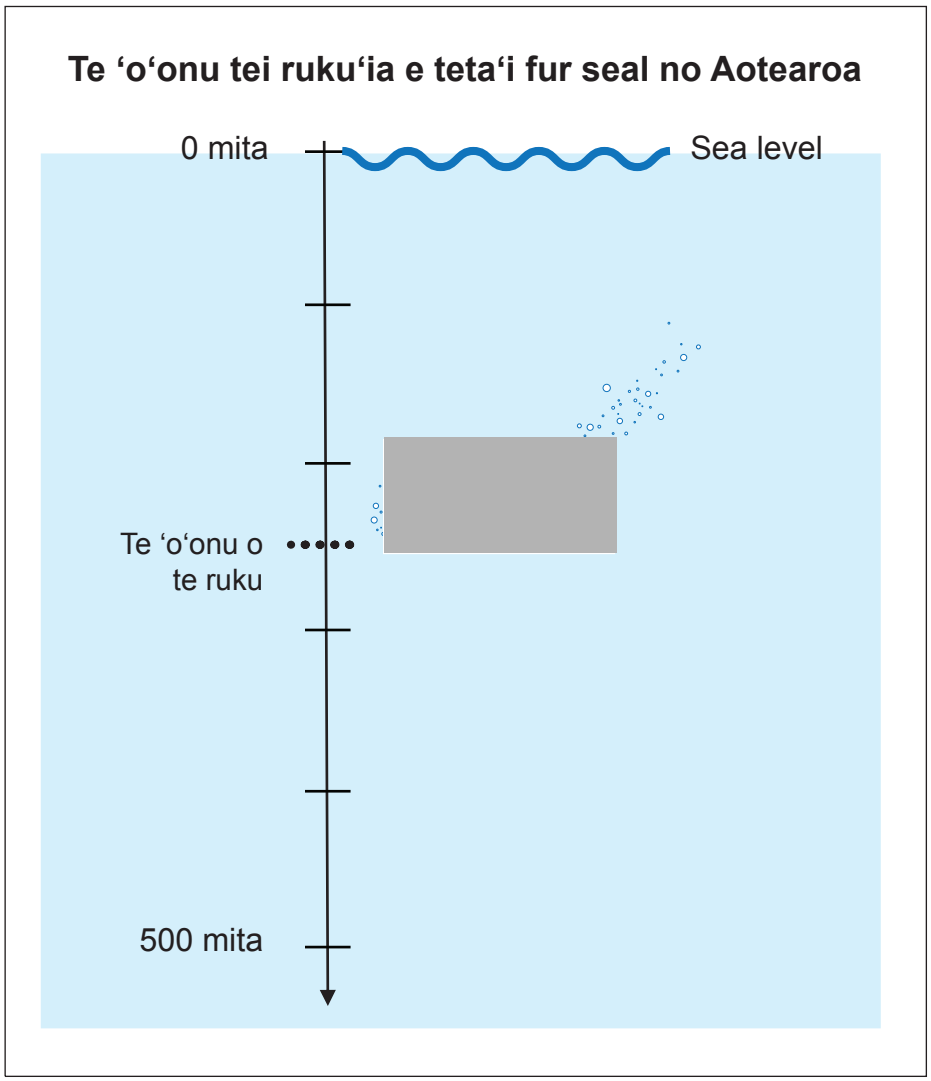


(c) Tick (✓) where seals can be found at 42.4° S and 173.7° E.

A ◯ B ◯ C ◯ D ◯ E ◯ F ◯

ʻE ʻapinga ʻua atu rāi te seal i te ruku.

Te ʻakaāri mai nei te rāina numero, i te ʻoʻonu e rukuʻia ana e tetaʻi fur seal no Aotearoa.

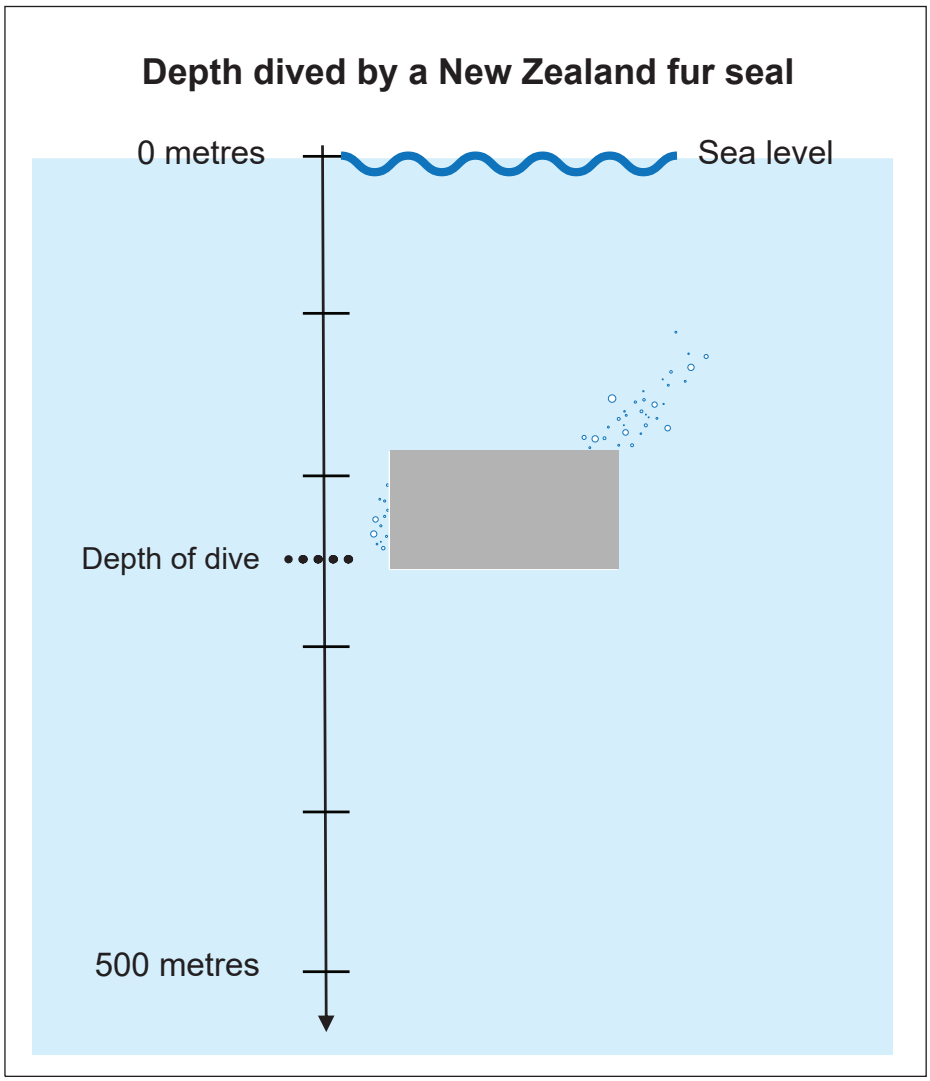


(d) Tāmanakoʻia mai (estimate) te ʻoʻonu, tei rukuʻia e te fur seal.

[ ] te au mita i raro ake i te tai

Seals are excellent divers.

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

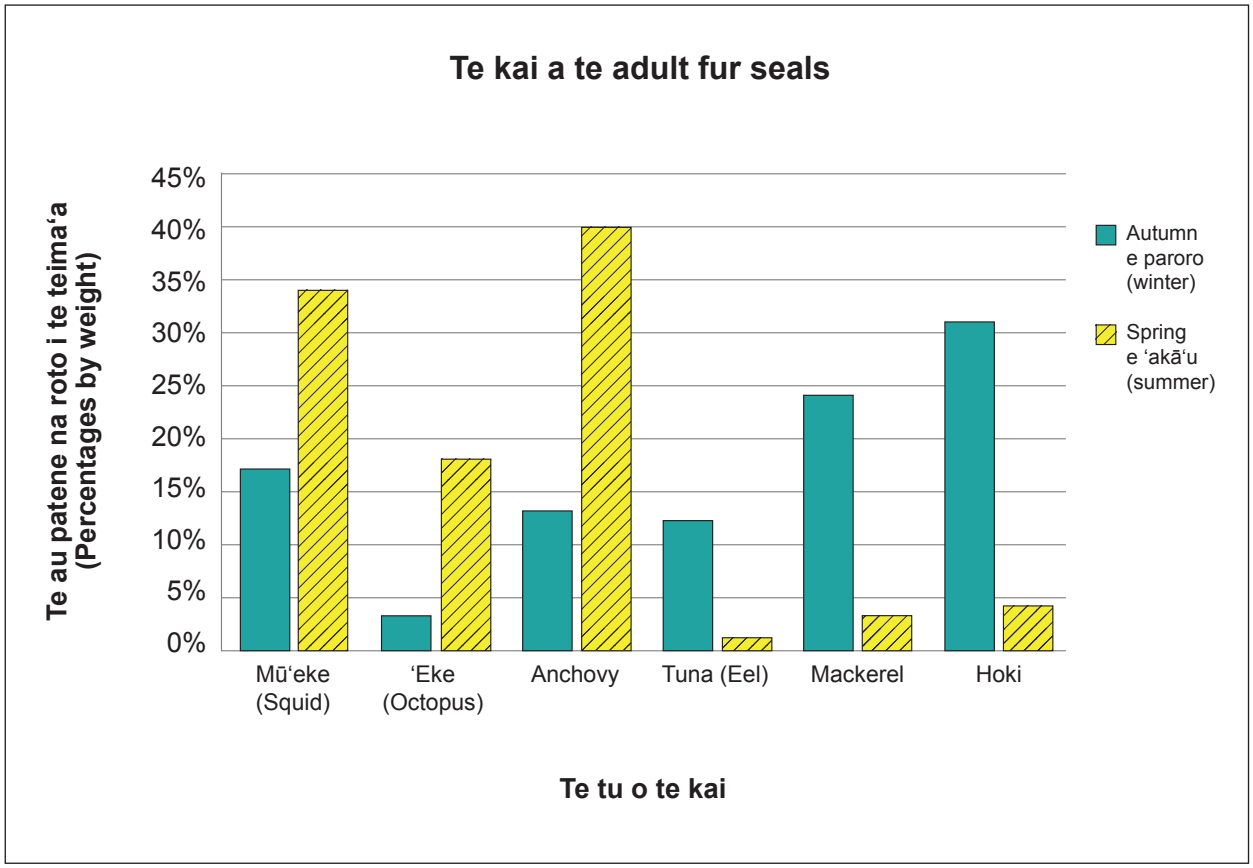


(d) Estimate the depth the fur seal dived to.

[ ] metres below sea level

Te ʻakaāri mai nei te graph, i te tu kai, e kai ana te seal, i te au tuātau tūkētūkē o te mataʻiti.

Te ʻakaāri mai nei te au bar kara tūkētūkē, i te ʻāpa tūkē o te mataʻiti.

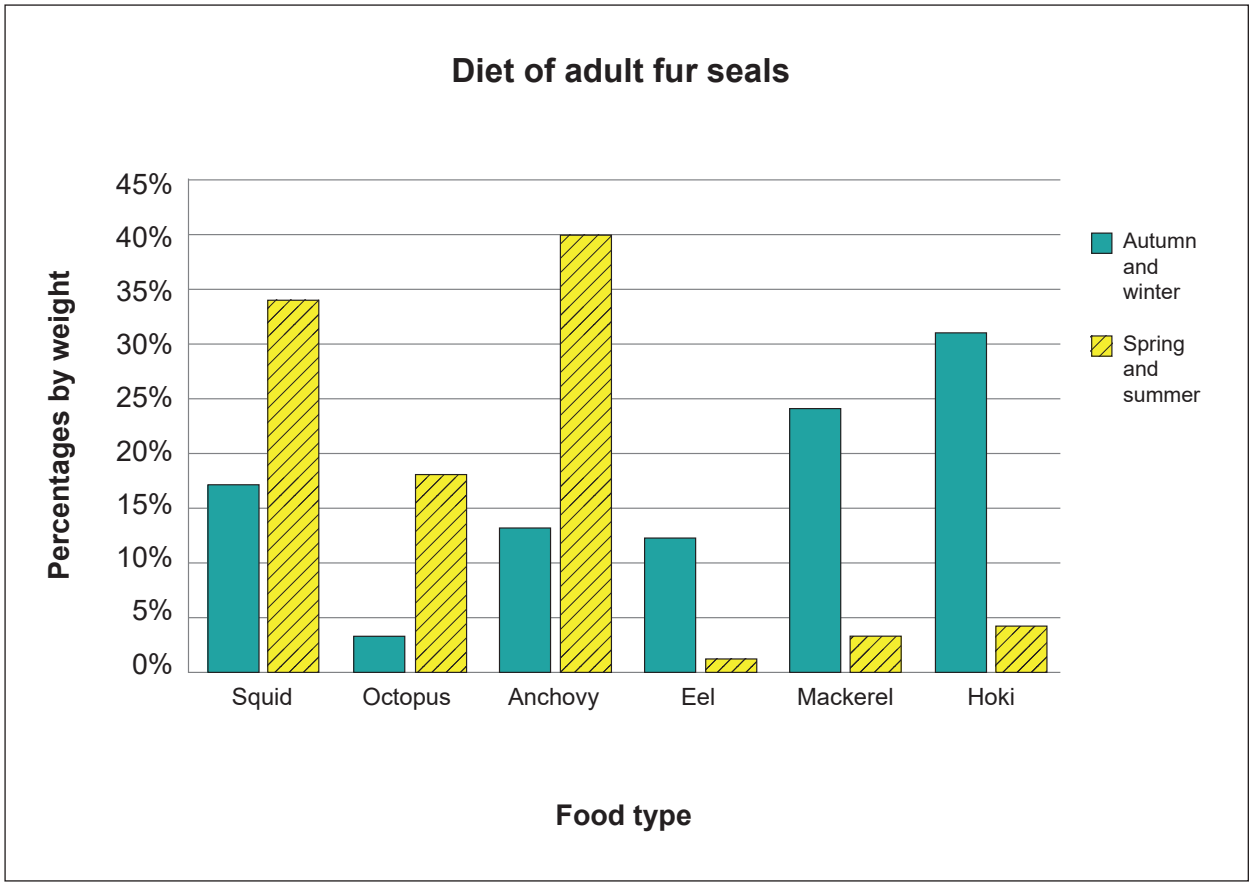


"I roto i te tuātau akaʻau (spring), e te tuātau vera (summer), i te maʻataʻanga o te taime, e kai ana te seal i te, mūʻeke (squid), te ʻeke (octopus), e te anchovy."

(e) Te ʻakatika āinei koe? Tāʻangaʻangaʻia te au patene mei runga i te graph, i te ʻakamārama i taʻau paʻuʻanga.

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 spring and summer, seals eat mostly squid, octopus, and anchovy."

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

Te ʻakaāri mai nei te au topatapataʻanga i runga i te māpu, i te au ngāʻi, e noʻo ana te seals, e karangaʻia ana e, ko Ohau Point.

Te ʻakaāriʻia mai nei a Ohau Point e te ʻētu rengarenga.

Te ʻakaāri mai nei, te topata teatea, i te ngāʻi mamao rava atu i kau ana tetaʻi seal.

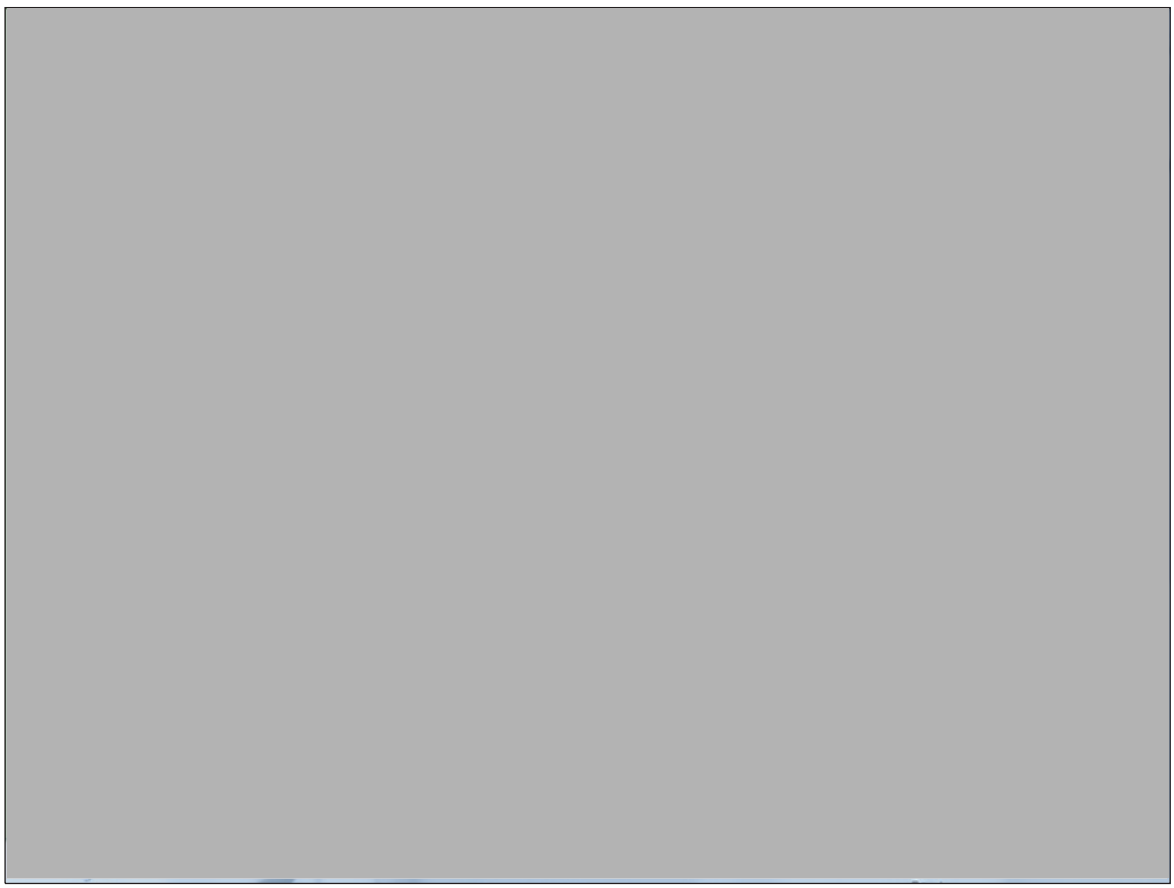
(f) Tāʻangaʻangaʻia te scale i runga i te māpu, i te tāmanako (estimate) i te mamao mei Ohau Point ki te topata teatea.

[ ] 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 the furthest distance a seal swam to.



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

[ ] km

Teta‘i atu ngā‘i ātea, me ka ‘inangaro‘ia.
Tātā‘ia te numero (au numero) o te ui‘anga me ka tau.

TE NUMERO O TE UI'ANGA	

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

QUESTION NUMBER	

Teta‘i atu ngā‘i ātea, me ka ‘inangaro‘ia.
Tātā‘ia te numero (au numero) o te ui‘anga me ka tau.

TE NUMERO O TE UI'ANGA	

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

QUESTION NUMBER

Au ʻakameitakiʻanga

Kua ʻakatanotanoʻia te au ʻapinga no roto mai i te au turanga e āru mai nei, no teia vāitoʻanga:

Uiʻanga Taʻi

Kapi 2: E vaʻine tei runga i nga tokotoko, https://stock.adobe.com/nz/images/woman-practicing-walking-on-crutches/249827144
Kapi 2: Figure outline, https://static1.squarespace.com/static/54d96b48e4b04bc268f6fde7/t/552b3b68e4b043705b2a7386/1428896616631/Sizing+and+Using+Forearm+or+Elbow+Crutches.pdf
Kapi 2: Tokotoko, https://www.mobilitycentre.co.nz/shop/crutches-walking-sticks/crutches/coopers-elbow-crutches-adult-single-adjustable-pair/
Kapi 2: Protractor, https://stock.adobe.com/images/protractor-protractor-grid-for-measuring-degrees-tilt-angle-meter-measuring-tool-ai10/196681142
Kapi 4: Sports park, https://www.landscapearchitecture.nz/landscape-architecture-aotearoa/2018/3/22/new-zealands-first-sustainable-sports-park-setting-a-new-direction
Kapi 6: Piʻa tanu kai (garden box), https://stock.adobe.com (created using generative AI)
Kapi 6: Matīni puʻa kākaʻu (washing machine), https://extremeappliances.co.nz/samsung-10kg-top-load-washer-wa10a8376gw/
Kapi 6: Vairanga tītā (bin), https://rotaform.co.nz/products/wheelie-bin-80-litre

Uiʻanga Rua

Kapi 8: Umauma tāne (man's chest), https://taperedmenswear.com/blogs/tapered-blog/how-to-measure-chest-size
Kapi 10: Pereue (jacket), https://dwights.co.nz/products/womens-rab-microlight-alpine-jacket ?variant=48720739533095 (created using generative AI)
Kapi 10: Sale label, https://stock.adobe.com/images/set-of-red-sale-banners-on-white-background-ribbons-and-stickers-paper-scrolls-vector-illustration/384987350
Kapi 10: Thermometer, https://stock.adobe.com/images/thermometer-graphics/80656743
Kapi 12: E toru pereue (three jackets), https://stock.adobe.com (adapted using generative AI)
Kapi 12: Clothing label, https://stock.adobe.com/images/white-cardboard-clothing-price-tag-isolated/529658651
Kapi 14: 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

Uiʻanga Toru

Kapi 18: Ta meika (bunch of bananas), https://stock.adobe.com/images/5-five-bananas/27448166
Kapi 20: Pereʻō supermarket (supermarket trolley), https://www.dreamstime.com/stock-illustration-shopping-carts-icon-line-sketch-doodle-style-metal-trolley-purchases-supermarket-white-background-symbol-sign-image81850982
Kapi 22: *Favourites* packet, https://www.woolworths.co.nz/shop/productdetails?stockcode=631296&name=cadbury-chocolates-favourites
Kapi 24: Ū marō na te pēpē (baby formula), https://www.davidjonespharmacy.com.au/assets/full/847151.jpg
Kapi 24: Kapu (scoop), https://smartmedia.digital4danone.com/is/image/danonecs/baby-formula-scoop-1-3

Uiʻanga ʻĀ

Kapi 26: Music notes, https://stock.adobe.com/images/music-notes-icon-set-music-notes-symbol-vector-illustration/439874275
Kapi 28: Auvaro album (album cover), https://store.sonymusic.co.za/products/pink-floyd-the-division-bell-2016-version-2-lp
Kapi 32: Streaming, https://latinwmg.com/que-es-musica-en-streaming/
Kapi 32: Terepōni ʻāpaipai (cellphone), https://stock.adobe.com/templates/smartphone-infographic-with-teal-ribbons/296420050

Uiʻanga Rima

Kapi 36: ʻE tinana seal e te punua (mother seal and pup), https://www.travelnaturephotography.com/prints/new-zealand-fur-seal-mum-pup
Kapi 36: ʻE seal tei runga i te toka (seal on rock), https://animalia.bio/new-zealand-fur-seal/1000
Kapi 38: ʻE māpu no Aotearoa (NZ map), https://as1.ftcdn.net/v2/jpg/02/67/07/84/1000_F_267078483_VKxnOzM0gpF4VVD892jNfhoElRRX2h2O.jpg
Kapi 40: ʻE seal te ruku ra (diving seal), https://as1.ftcdn.net/v2/jpg/00/90/53/02/1000_F_90530260_7SzOXdDW4zElbEq7XhlDbMIBfxXmozYl.jpg
Kapi 44: Māpu no te au seals o Ohau (Ohau seals map), 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://dwights.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

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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
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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/
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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_7SzOXdDW4zElbEq7XhlDbMIBfxXmozYl.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

Numeracy 2025

32406 Apply mathematics and statistics in a range of everyday situations

Credits: Ten

32406C

WEEK ONE | 19–23 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.