

TŪMAHI AROMATAWAI PĀTAHI



Pāngarau 2024

32412 Te whakamahi pāngarau hei whakaoti rapanga o te ao o te ākongā

NGĀ WHIWHINGA: 10

Tō NSN

Wāhere Kura (Nama)

NZQA

Mana Tohu Mātauranga o Aotearoa
New Zealand Qualifications Authority

TŪMAHI 1 - TE HAERENGA O TE WHĀNAU

Ka haere te whānau ki te hui ā-tau ki tō rātou marae.

Ko te whakawhanaunga te tino kaupapa o te hui.

Ka eke tereina i Tāmaki Makaurau ka heke ki Tongariro (National Park)

	Ngā tāngata	Te utu	Te tapeke
Tāmaki Makauru ki Tongariro	2 x pakeke 2 x tamariki	\$145.00 pakeke x1	\$494.00
Tongariro ki Tāmaki Makaurau	2 x pakeke 2 x tamariki	\$124.00 pakeke x1	\$422.00

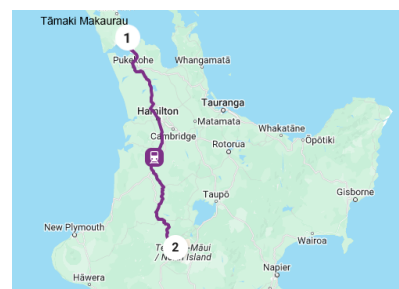
(a) E hia te tapeke o te utu mō te katoa o te haerenga mā runga tereina mō te whānau?

(e) Mēnā, he moata te tono a te whānau mō ngā tīkete tereina, ka heke te utu mā te 15%. Tātaihia te tapeke o te utu mō te haerenga ināianei.

(h) E hia te utu mō ngā tamariki tokorua ki te haere mā runga tereina i Tāmaki Makaurau ki Tongariro?

Kei tōna 345 kiromita te tawhiti o te haerenga mā runga tereina i Tāmaki Makaurau (1) ki Tongariro (2).

Mēnā e pūmau tonu ana te tere o te tereina ki te 69 km/h.



(i) E hia te roanga o te wā kia tae atu ai ki Tongariro?

- 5 haora
- 5.5 haora
- 5.75 haora

Tamaki Makaurau		Te Whanganui-a-Tara	
Ka wehe i ...	Tewā	Ka tae ki ...	Tewā
Tāmaki Makaurau	07:45 ata	Papakura	08:35 ata
Papakura	08.35 ata	Kirikiroa	10:15 ata
Kirikiroa	10.15 ata	Otorohanga	10:50 ata
Otorohanga	10:50 ata	Taumarunui	12:25 ahiahi
Taumarunui	12:25 ahiahi	Tongariro (National Park)	01:15 ahiahi
Tongariro (National Park)	01:15 ahiahi	Ohakune	01:45 ahiahi
Ohakune	01:45 ahiahi	Papaioea	04:20 ahiahi
Papaioea	04:20 ahiahi	Paraparaumu	05:30 ahiahi
Paraparaumu	05:30 ahiahi	Pōneke	06:25 ahiahi

k) Tuhia te wā-ringa hei wā-24. He ah te wā i te ahiahi ka tae atu ki Tongariro.

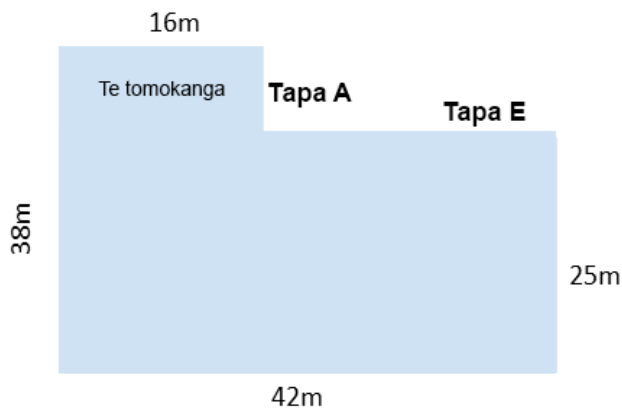
TŪMAHI 2 - HE RĀ WHAKANUI I TE WHĀNAU

He hōtaka hākinakina mō te rangatahi

Te tākaro 1 Kī-ō-rahi	Te tākaro 2 Poirewa	Te Paramanawa	Te tākaro 3 Poitūkohu	Te tākaro 4 Pā whutupōro
8:45-9:35 i te ata	9.45-10:35 i te ata		10.50-11.40 i te ata	11.50 - 12.40 i te ata/i te ahiahi
Rōpū 1 & 2	Rōpū 3 & 4		Rōpū 1 & 3	Rōpū 2 & 4
Rōpū 3 & 4	Rōpū 3 & 4		Rōpū 2 & 4	Rōpu 1 & 3

(a) Hei āhea tākaro ai te Rōpū 2 i te Poitūkohu?

(e) E hia te roa o te wā mō te paramanawa?



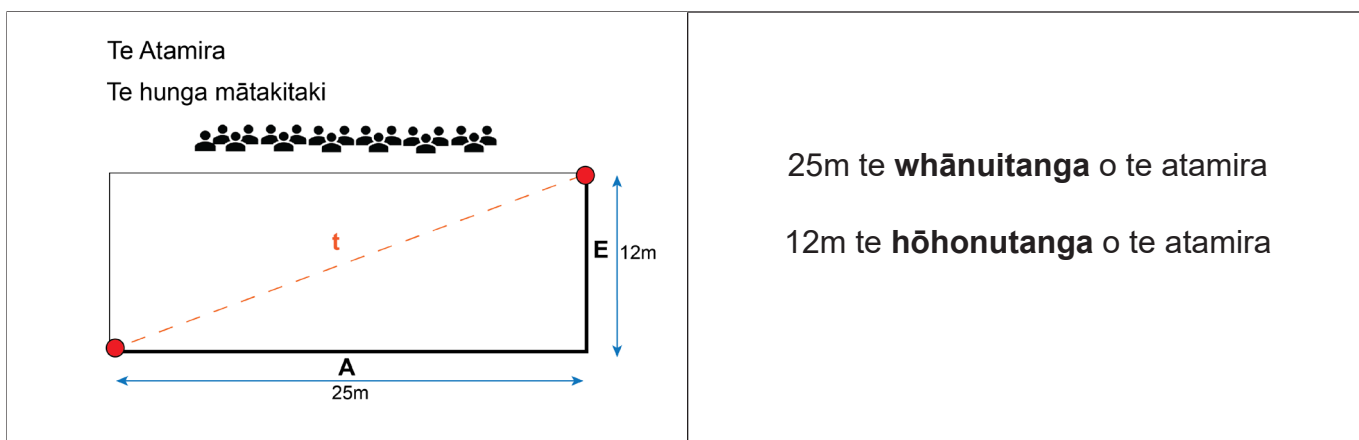
Ka tū ia whānau ki te whakangahau atu ki te hunga mātakitaki.

E pēnei ana te āhua o te whare e tū ai te mahi whakangahau.

- (h) Tātaihia te roa o te TAPA A me te TAPA E.
Whakaaturia ō mahi tātai i te TAPA A me te TAPA E.

- (i) Tātaihia te horahanga o tēnei whare.
Whakaaturia ō mahi.

Horahanga o te whare: _____ m²



- (k) Tātaihia te horahanga o te atamira. _____ m²

- (m) Kimihia te tawhiti (**t**) mai i te kokonga o raro ki te kokonga o runga.
Whakamahia te ture a Pythagoras $a^2 + b^2 = c^2$ e oti ai tēnei rapanga.

Tuhia te whakautu ki ngā mati whaiira e rua.

$$t^2 = A^2 + E^2$$

$$t = \sqrt{\quad}$$

$$t = \quad$$

TŪMAHI 3 - TE WHAKARITE KAI

E \$50 te moni rēhita mā ia tangata mō te hui ā-tau. 110 te hunga ka tae atu.

- (a) Tātaihia te tapeke o te moni rēhita ka kohia.

E 75% o te moni rēhita te pūtea mō te whakarite kai.

- (e) E hia te tahua moni hei whakarite kai?

Te wātaka kai

Rangi	10 i te ata	12-1 i te ahiahi	3 i te ahiahi
Rāmere	-	Tina	Paramanawa
Rāhoroi	Paramanawa	Tina	Paramanawa
Rātapu	Paramanawa	Tina	Paramanawa


E \$2.00 te utu mō ia tāngata mō te paramanawa kotahi.

E 110 ngā tangata.

- h) E hia te tahua moni katoa ki te whakarite i ngā paramanawa?

Ka tunu i te parāoa takakau mō te paramanawa.

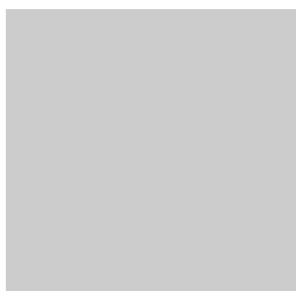
Te tohutaō ki te tunu i te takakau kotahi.

<p>Ngā Kīnakitanga</p> <ul style="list-style-type: none"> • Kia 3 ngā kapu o te parāoa puehu • Kia 3 ngā kokoiti (tīpuni) o te pēkena paura • Kia 1 ½ ngā kapu o te miraka • Kia 1 ½ ngā kapu o te wai 	
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Ko te whakapae, kotahi te parāoa takakau ka whāngai i ngā tāngata 10.

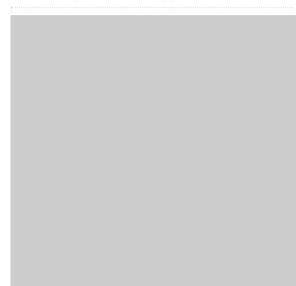
(i) E hia ngā parāoa takakau ka tunua mō ngā tāngata 110.

1 te kapu parāoa puehu = 125 karamu



(k) E hia ngā karamu parāoa puehu ki te tunu i ngā parāoa takakau e 6.

1 te kapu miraka = 250 ritamano



(m) E hia ngā ritamano e ōrite ana ki te kapu 1½?

Whakaaturia ō mahi:

Kua tunua ngā panikeke 250 mō te paramanawa

		
E 60 ngā panikeke purūpere.	E 90 ngā panikeke rāhipere.	100 ngā panikeke panana.

Kōwhiria tētahi o ngā momo panikeke: _____

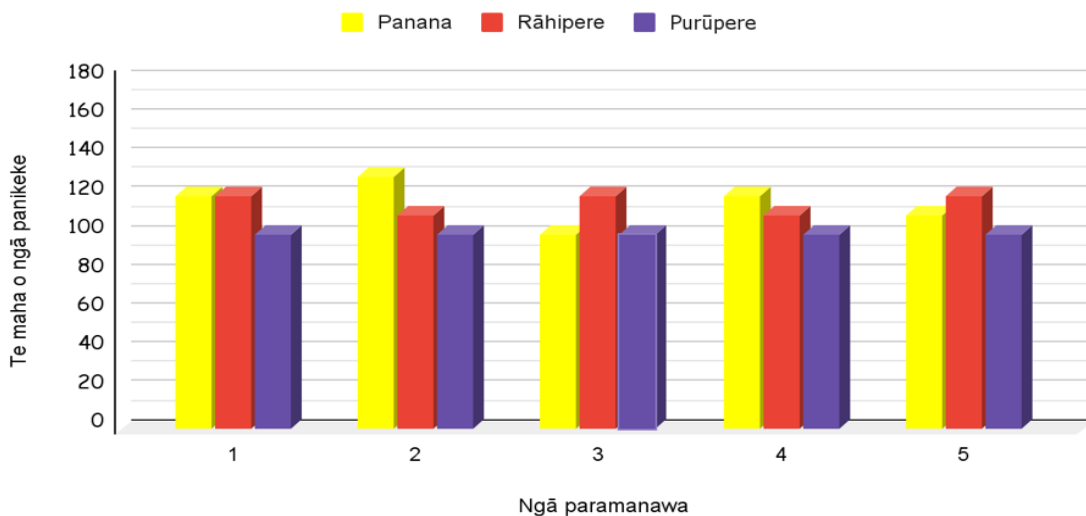
(n) Ko te aha te tūponotanga e pau tuatahi ai taua momo panikeke i whiriwhiri?

Tuhia hei hautau: _____ hei tau ā-ira (mati whaiira e 2): _____

hei ōrau %: _____

E whakaatu ana te kauwhata i te maha o ngā panikeke i kai i ngā paramanawa e rima i te hui ā-tau.

Ngā panikeke i kai i ngā paramanawa e 5



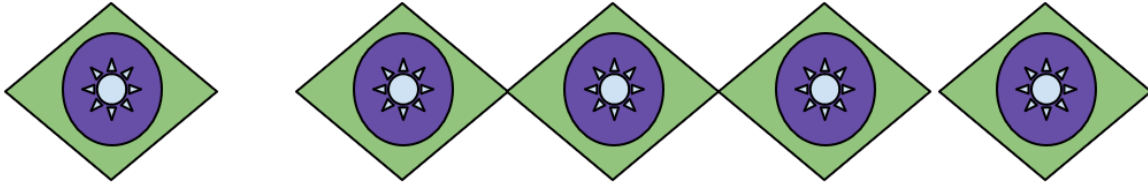
(o) E tika ana tēnei tauāki?

'He ōrite te maha o ngā panikeke panana me ngā panikeke rāhipere i kai i ngā paramanawa e 5.'

Whakamāramahia tō whakautu. Whakamahia te kauwhata hei tautoko i ō whakaaro.

TŪMAHI 4 - HE KĀKAHU

Kua waihanga taurira hei whakarākei i ngā tīhate mō te hui ā-tau.

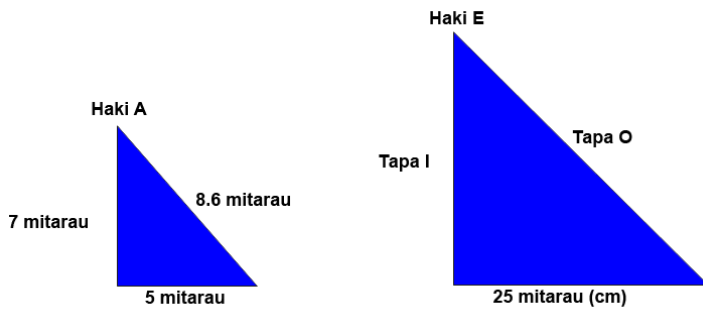


Te Mataoroko

(a) He aha te panonitanga?
Whiriwhiria te utu e tika ana.

- Te hurihanga
 Te nekehanga
 Te whakaatanga

Kei te whakarākei ngā tamariki nohinohi i ngā haki mō te whānau.



He whakarahinga te haki E o te haki A.

(e) He aha te tau e whakarea ai i te whakarahinga o ngā tapa?
Whiriwhiria te utu e tika ana.

- 5
 2
 3

(h) E hia te roa o ngā tapa e rua o te haki whakarahi?

Tapa I _____ Tapa O _____

Kei te whatu tāniko te whānau hei waihanga i te tātua.

Aho (a)	30	60	90	120	150
Mitarau (cm)	2.5	5	7.5	10	12.5

(i) E hia ngā mitarau mō ngā aho 180?

E 30 ngā aho ki ia 2.5 cm.

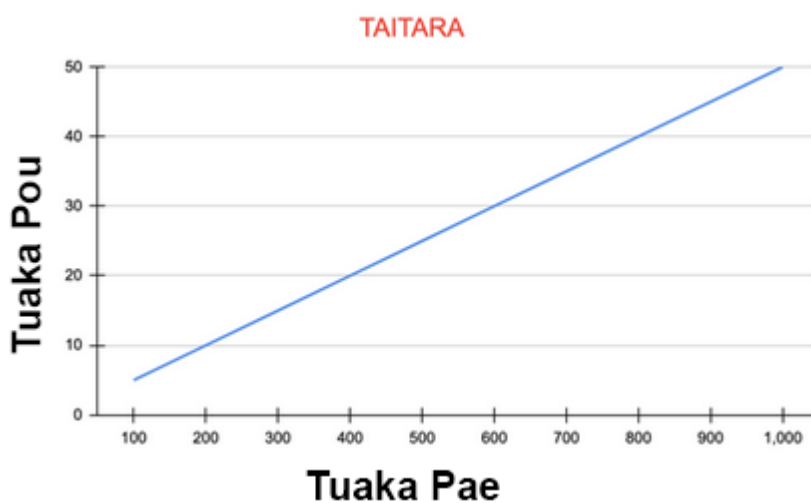
(k) E hia ngā aho mō te tātua 35 mitarau te roa?
Whakamahia te tūtohi hei awahina i a koe, ā, whakaaturia ō mahi.

Kei te tui tīhāte te whānau mō ngā tamariki 20.
E toru hauwhā $\frac{3}{4}$ mita te roa o te papanga mō ia tīhāte.

(m) E hia te roa o te papanga ka hokona hei tuitui tīhāte mō ngā tamariki te katoa?

TŪMAHI 5 - TE KOHI PŪTEA

Kei te hoko atu i ngā tīhate hei koho pūtea mō te hui ā-tau.



Tirohia te Kauwhata rārangi hei whakautu i ngā pātai e whai ake nei:

(a) Tuhia mai he Taitara pai mō te Kauwhata nei.

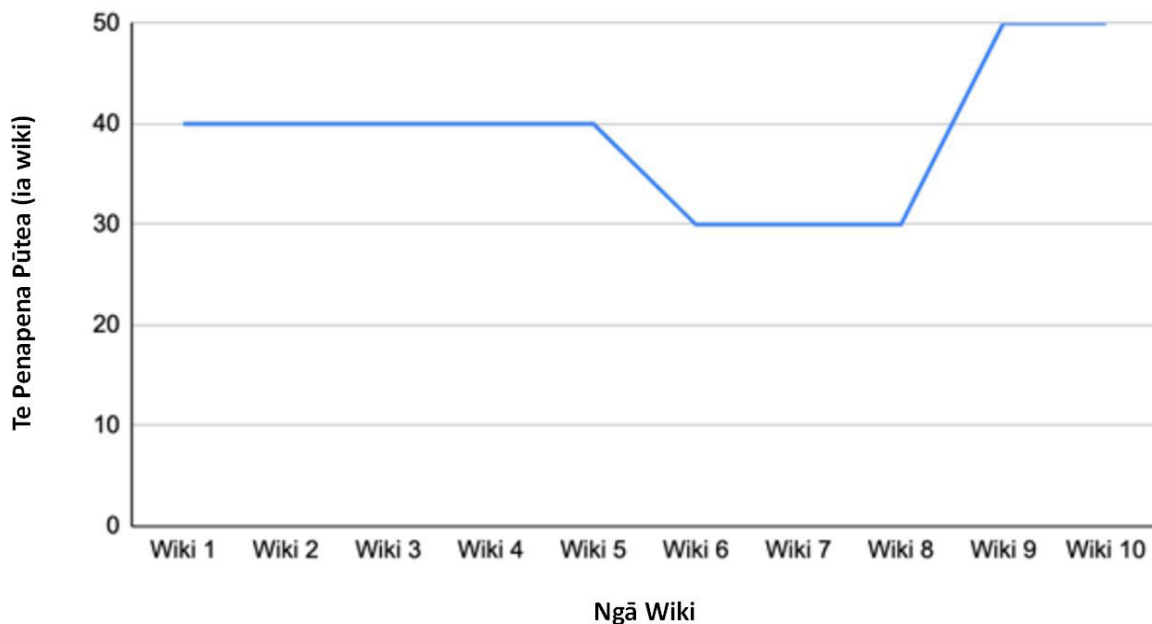
(e) Whakaingoatia te Tuaka Pae me te Tuaka Pou.

(h) E 30 ngā tīhate ka hoko atu. E hia te tahua moni ka whakawhia?

He mahi tā Hineari ki tētahi toa hokomaha. E \$97.20 te utu mō te rā.
Ka tangohia te tāke 10.5%.

(i) E hia te nui o te pūtea ka whakahokia ki tōna kāinga?

Te Penapena Pūtea a Hineari



Tirohia te kawhata rārangi.

(k) He aha ētahi whakakitenga, ētahi kōrero e pā ana ki te penapena pūtea a Hineari.
Whakamāramahia ō whakaaro?

Mātāpuna

Tūmahi 3 - Whārangi 6: Luisa. (2017). Takakau [Pikitia]. Blogspot. <https://gbsluisam.blogspot.com/2017/08/how-to-make-takakaumaori-bread.html>.

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Tūmahi 3 - Whārangi 6: Merritt, Sam. (2019). Kapu Parāoa Puehu [Pikitia]. Sugar Spun Run. <https://sugarspunrun.com/how-to-measure-flour/>.

Tūmahi 4 - Whārangi 9: Te Kanawa, Kahutoi. (2014). Tāniko Designs [Pikitia]. Te Ara - the Encyclopedia of New Zealand. <http://www.TeAra.govt.nz/en/diagram/43485/taniko-designs>.