

Kōtuia ngā wāhanga katoa
o te pāngarau

Te Kauhoe Tawhiti

Arā ētahi tāngata, he pakari ki te kauhoe. Ka whai rātou ki te whakaotī i ngā kauhoe tawhiti.



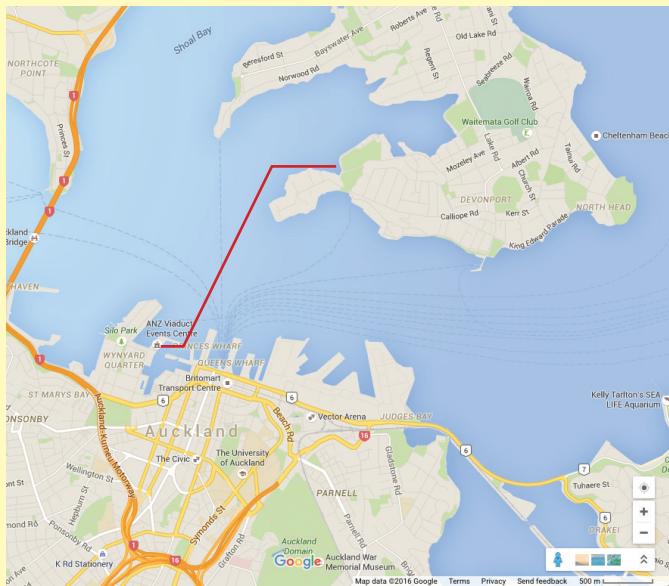
Hei Mahi 1

- a) Koia nei ngā ahopae me ngā ahopou hei tohu i ētahi wāhi kauhoe tawhiti o Aotearoa. Whakamahia te mahere, ka tuhi ai i ngā ingoa o ngā wāhi:

Ahopae	Ahopou	Wāhi
39°	176°	
41°	174°	
35°	174°	
45°	168.5°	



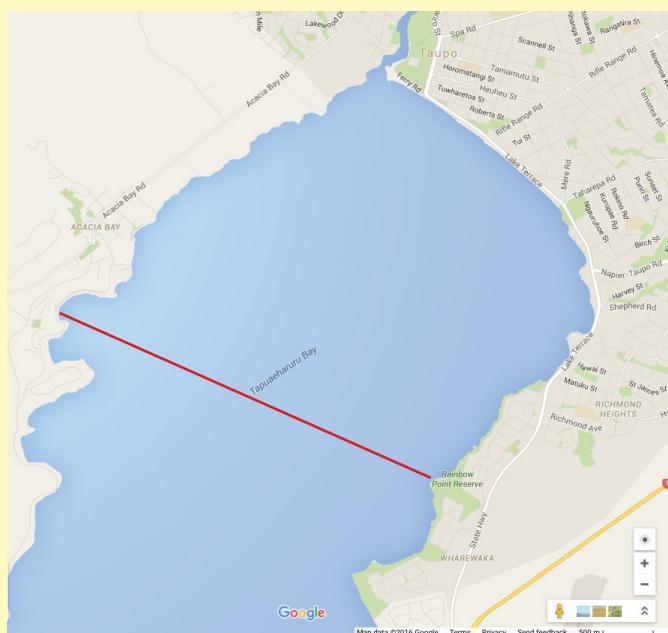
- e) Ki tō titiro ki te mahere, ko tēhea o ēnei kauhoe te mea tawhiti rawa, ko tēhea te mea poto rawa?
- h) Ko tētahi atu o ngā kauhoe tawhiti, ko te whakawhiti i te whanga o Waitematā i Tāmakimakaurau. Koia nei te mahere. Inea te tawhiti o te kauhoe i te mahere.



- i) Mēnā 18mm i te mahere e rite ana ki te 500m tūturu i te whenua, whakatau tatangia te tawhiti o tēnei kauhoe.

Hei Mahi 2

E 4.2km te tawhiti o tēnei kauhoe i te moana o Taupō:



a) E 80 ngā kau o ia ringa o Paea ka oti i a ia te 100m. Whakaotia tēnei tūtohi:

te tawhiti o te kauhoe (m)	100	200	300	400	500
ngā kau o ia ringa					

e) E hia ngā kau o ia ringa kia oti i a ia tēnei kauhoe tawhiti i te moana o Taupō?

h) E 60 ngā kau o ia ringa o Rangi, ka oti i a ia te 100m. Ka tuhia e ia tēnei whārite:

$$K = 60t \div 100$$

E tohu ana te K i te aha? E tohu ana te t i te aha?

i) He aha i whakawehea ai ki te 100?

k) Whakamahia te whārite hei whiriwhiri i te maha o ngā kau o ia ringa o Rangi, kia oti i a ia tēnei kauhoe tawhiti i te moana o Taupō?

Hei Mahi 3

E ai ki te rangahau a Rangi, kei te takiwā o te 7.2k/h te tere rawa atu o te kauhoe e taea ana e te tangata. Koia nei te tūtohi i tuhia e ia:

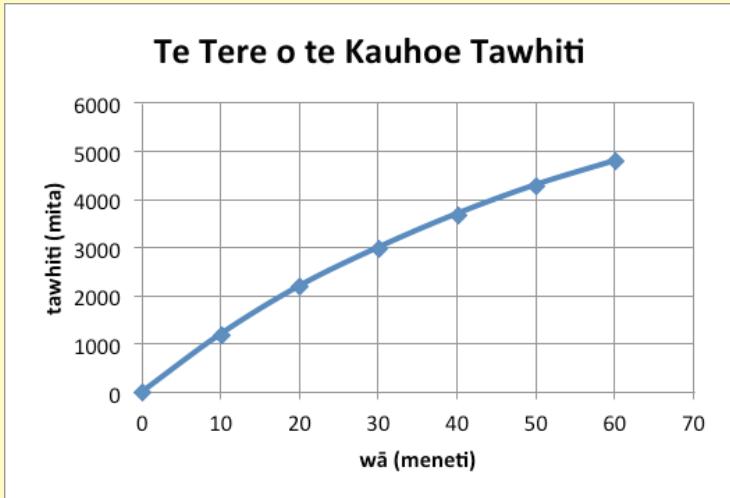
wā (menetī)	10	20	30	40	50	60
tawhiti (mita)	1,200	2,400	3,600	4,800	6,000	7,200

a) Nō hea te 60 me te 7,200 i te pou matau o te tūtohi? E tohu ana ērā i te aha?

e) He aha te mahi a Rangi hei whiriwhiri i te 1,200m ka oti i roto i te 10 menetī?

h) Me he pēnei te tere o te tangata ki te kauhoe, e hia menetī ka oti i a ia te kauhoe tawhiti i te moana o Taupō (Hei Mahi 2 i runga ake nei)?

- i) Ko te tautohe a Paea, kāore e pūmau te tere o te kauhoe mēnā he kauhoe tawhiti. Ka tuhia tēnei kauwhata hei whakamārama i tana whakaaro:

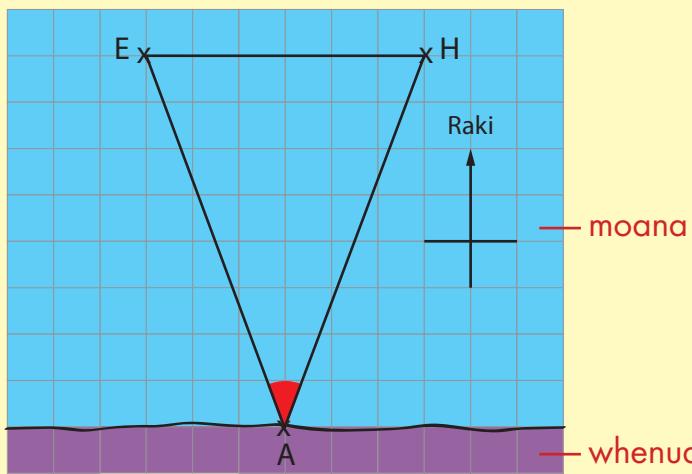


Whakamāramahia te kauwhata me te whakaaro o Paea.

- k) Mēnā ka whai i tā Paea e tautohe nei, e hia meneti ka oti te kauhoe tawhiti i te moana o Taupō?

Hei Mahi 4

He mahere tēnei o tētahi whakataetae kauhoe moana. Ko te A e tohu ana i te īmatanga o te ara kauhoe. He pōito e rewa ana i te moana i te pūwāhi E me te pūwāhi H.



- a) Mēnā he kōaro te huri āmio i te ara kauhoe, ko tēhea te pōito tuatahi?
- e) Mēnā he kōaro te huri āmio i te ara kauhoe, he aha te ahunga o te kaupeka tuarua o te ara?

h) He aha te momo tapatoru o te ara kauhoe?

i) E 70° te rahi o te koki kei waenganui i te tahatika (arā, te whenua) me te kaupeka AH o te ara kauhoe. Ki tō titiro e hia putu te rahi o te koki kei waenganui i te tahatika (arā, te whenua) me te kaupeka AE o te ara?

k) Whiriwhiria rahi o te koki EAH (te koki whero i te mahere).

m) Mēnā e 500m te tawhiti o te kaupeka tuatahi o te ara, whakatau tatangia te tawhiti o te kaupeka tuarua o te ara.

n) Mēnā e 4km te tawhiti huri āmio i te ara kauhoe, whakatau tatangia te tawhiti o ia kaupeka.