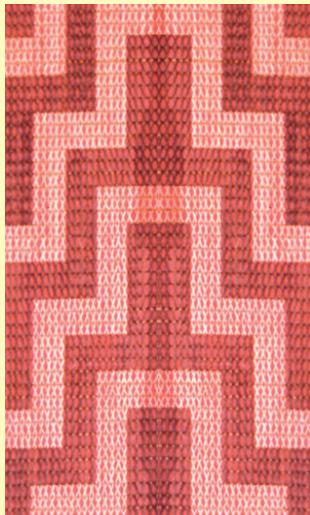
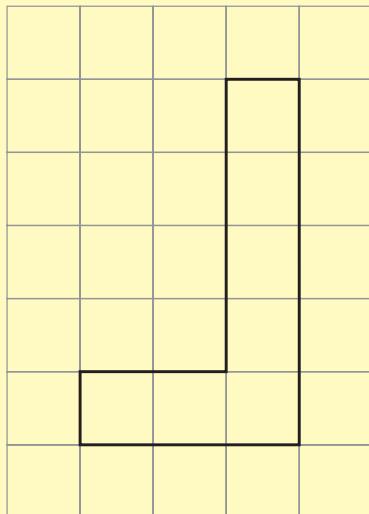


Poutama

Kōtuia ngā wāhanga katoa
o te pāngarau



E tūhura ana a Māia i te tauira o te Poutama. Koia nei te āhua i tuhia e ia ki te pepa tukutuku. Ko tāna, koia nei te pūtake o te tauira Poutama:



Hei Mahi 1

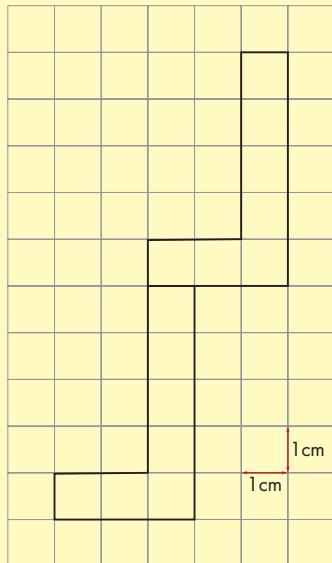
- a) Mēnā 1cm te roa o ia taha o ngā wehenga iti o te pepa tukutuku, e hia mitarau te paenga o te āhua i tuhia e Māia.
- e) Mēnā e 2cm te roa o ia taha o ngā wehenga iti o te pepa tukutuku, e hia mitarau te paenga? Whakaotia tēnei tūtohi:

Te roa o ia tapa o ngā wehenga iti (cm)	1	2	3	4	5
Te paenga (cm)	16				

- h) He tauira tipu te kapa raro o te tūtohi, arā, te kapa kākāriki. He aha te ture o tēnei tauira tipu?
- i) He aha tō mahi hei whiriwhiri i te paenga o tēnei āhua, mēnā e 6cm te roa o ia taha o ngā wehenga iti o te pepa tukutuku.
- k) He aha tō mahi hei whiriwhiri i te paenga o tēnei āhua mēnā 1.5cm te roa o ia taha o ngā wehenga iti o te pepa tukutuku?

Hei Mahi 2

Koia nei te tuhi a Māia ināianei hei hanga i tana Poutama. Kua honoa e ia ētahi pūtake e rua o te Poutama:



a) Mēnā kotahi noa iho te pūtake, kua kite tātou i runga ake nei, 16cm te paenga. E hia mitarau te paenga mēnā e rua ngā pūtake o te Poutama e noho tūhono ana?

e) Whakaotia te tūtohi nei:

Te maha o ngā pūtake e tūhono ana	1	2	3	4	5
Te paenga (cm)					

h) Ka āta tirotiro a Māia ki te tūtohi i runga ake nei, ā, ka tuhia tēnei whārite:

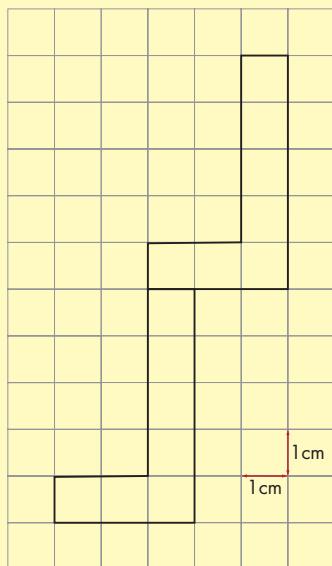
$$P = 14m - 2$$

Whakamāramahia te whārite nei a Māia.

- i) Whakamahia te whārite a Māia hei whiriwhiri i te paenga (P) mēnā 12 ngā pūtake (m) o te Poutama e tūhono ana.
- k) Mēnā e 278cm te paenga (P), whakamahia te whārite hei whiriwhiri i te maha o ngā pūtake (m) o te Poutama e tūhono ana.

Hei Mahi 3

Koia nei te tohu hei whakaatu i te neke a Māia i te Pūtake o te Poutama.



($\rightarrow 2, \uparrow 5$)

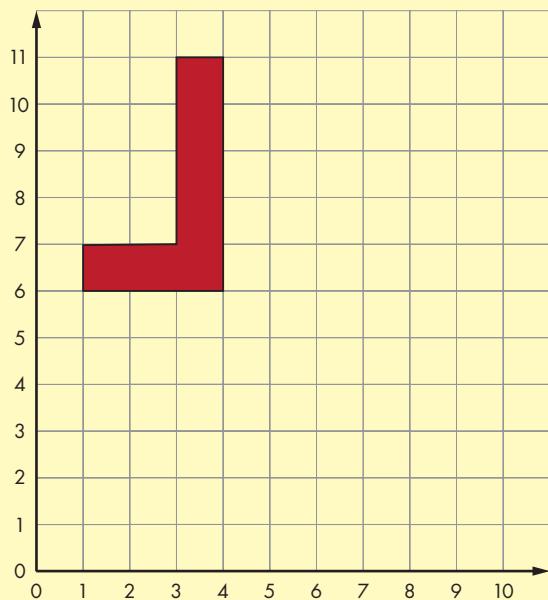
a) Whakamāramahia tēnei tohu.

e) Tuhia te pūtake o te Poutama ki tō pepa tukutuku. Whāia tēnei tohu, ka tuhi ai i ētahi tāruaruatanga e 4 o te pūtake:

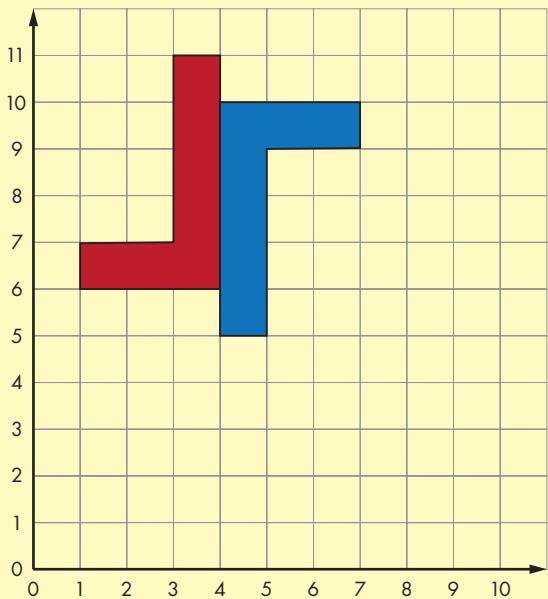
($\rightarrow 1, \downarrow 1$)

Hei Mahi 4

Ka tuhia e Māia te pūtake o te Poutama ki te papa tukutuku nei, ka karakarangia kia whero:



Kātahi ia ka tuhi i tēnei panonitanga o te pūtake, ka karakarangia kia kahurangi:

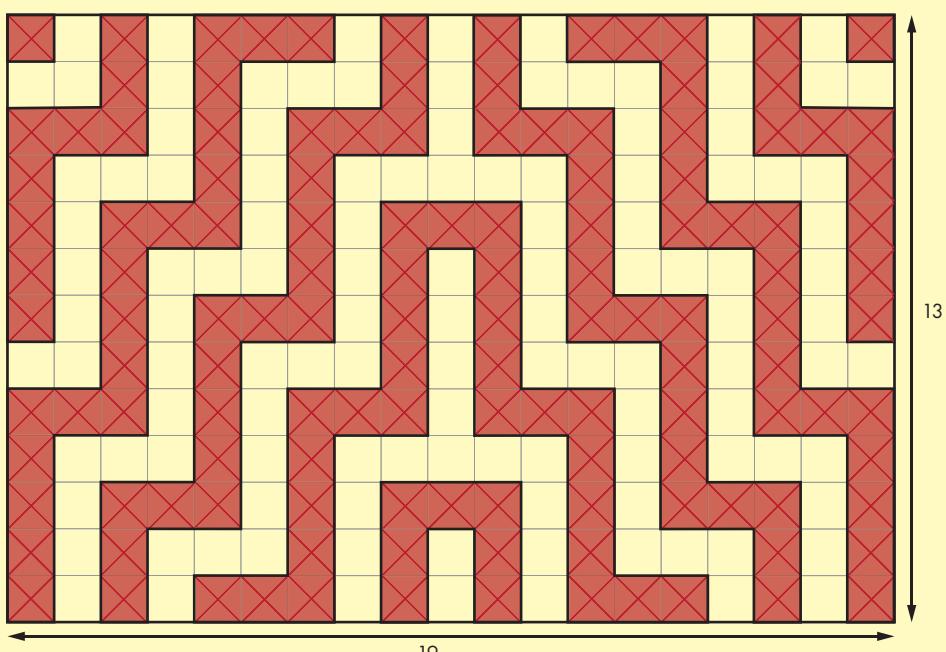


- a) Tuhia te whakamārama mō te panonitanga nei a Māia i te pūtake o te Poutama, mai i te mea whero ki te mea kahurangi.
- e) Tuhia te pūtake o te Poutama ki tō papa tukutuku, me te panonitanga nei a Māia, arā, te mea whero me te mea kahurangi nei. Koia nei te tohu hei neke māu i ēnei pūtake e rua:

$(\rightarrow 2, \downarrow 2)$

Tuhia kia rua ngā nekehanga o te pūtake.

- h) Koia nei te otinga atu o te Poutama a Māia. Tekau mā iwa ngā wehenga iti huapae o te tukutuku, 13 wehenga poutū:



Māu e tuhi tētahi Poutama ki te pepa tukutuku, kia 14 wehenga huapae, kia 17 wehenga poutū.

- i) Whakaaturia te pūtake o tō Poutama, ka whakamārama ai i ngā panonitanga.

Hei Mahi 5

Ko te kaokao tēnei tauira tukutuku.



- a) Tuhia he tauira kaokao ki te pepa tukutuku, kia 12 ngā wehenga huapae o te tukutuku, kia 18 ngā wehenga poutū.
- e) Whakaaturia te pūtake o tō tauira kaokao, ka whakamārama ai i ngā panonitanga.