

➤ Notes for parents. Activity next page.

The purpose of this task is to help your child:

- learn to find and apply rules for sequential patterns, and to use multiples to predict an unseen element in a pattern

Think about this:

- It would be helpful if your child makes a table (chart) on a piece of paper for each pattern. The first column should show the part of the pattern (1st, 2nd section of fence, arrow, house etc) and the second column should show the number of sticks needed so far.
- Have your child explain or show you, or another family member how they know for sure what the 10th, or 20th or ... element in the pattern is.
- Encourage them to talk with you about what they are doing (instead of a classmate).
- Encourage them to ask you what you think is happening in any of the patterns!
- Your child might like to create a stick pattern of their own, and get someone in your family to have a go at working it out.



He tauira kōrero Māori

Kua hangaia ēnei tauira ki ētahi rākau iti. Whakamāramatia mai te hanga o tēnei tauira.	These patterns have been made using small sticks. Explain to me how this pattern is built.
Tauria ia wāhanga o te tauira. E whitu ngā wāhanga o te taiapa.	Number each part of the pattern. There are seven parts of the fence pattern.
Me pēhea te whiriwhiri i te maha katoa o ngā rākau iti?	How do you work out the total number small sticks?
Mēnā e waru ngā wāhanga o te taiapa, ka hia katoa ngā rākau iti?	If there were eight parts to the fence, how many small sticks would that be?
Tuhia he tūtohi hei whakaatu i te wāhanga o te tauira me te maha o ngā rākau iti.	Write a table to show the parts of the pattern and the number of small sticks.
Tuhia he kōrero hei whakamārama i te tauira.	Write a sentence to explain the pattern.



He Rākau Iti, he Hanganga Nui

Ka hiahia he hoa

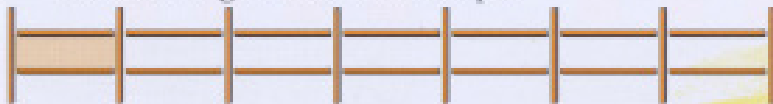
he rākau iti

Hei Mahi 1

1. Mahi tahi kōrua ko tō hoa ki te kimi i ētahi huarahi tere hei tatau i te maha o ngā rākau iti i roto i ngā tauira i raro nei.

Mō ia tauira, whakamāramahia te huarahi i whāia e kōrua.

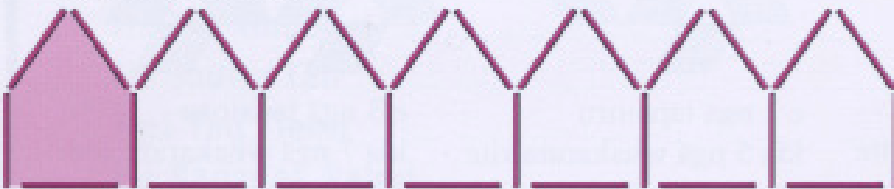
a. Étahi wāhanga e whitu o te taiapa:



e. Étahi pere e whitu:



h. Étahi whare e whitu:



i. Étahi tapatoru 15:



2. Kia hia ngā rākau hei hanga i ēnei:

- | | |
|--------------------------------|-----------------------|
| a. ngā wāhanga 15 o te taiapa? | e. ngā pere 15? |
| h. ngā whare e 20? | i. ngā tapatoru e 20? |

Hei Mahi 2

Hangai āu ake tauira ki ngā rākau iti.

Whiriwhiria he huarahi tere hei tatau i te katoa o ngā rākau iti o roto, kātahi ka hoatu mā tētahi hoa e whiriwhiri. Whakatairitea ō kōrua huarahi tatau.