

**Ihumanea Pāngarau**  
**Te Tuhi Hoahoa Āwhata**  
**MĀ TE KAI AKO**

**Kia Mōhio te Ākongā ki:**

- te tuhi hoahoa āwhata
- te whakaatu i tētahi āhua ahu-3 hei hoahoa ahu-2
- ngā ahunga matua o te kāpehu
- te whakawhiti waeine ngahuru
- te whiriwhiri horahanga o te tapawhā hāngai

**Kupu Matua:**

hoahoa āwhata, taurahi, tonga, raki, rāwhiti, uru, hoahoa ahu-3, tirohanga, whānui, roa, horahanga

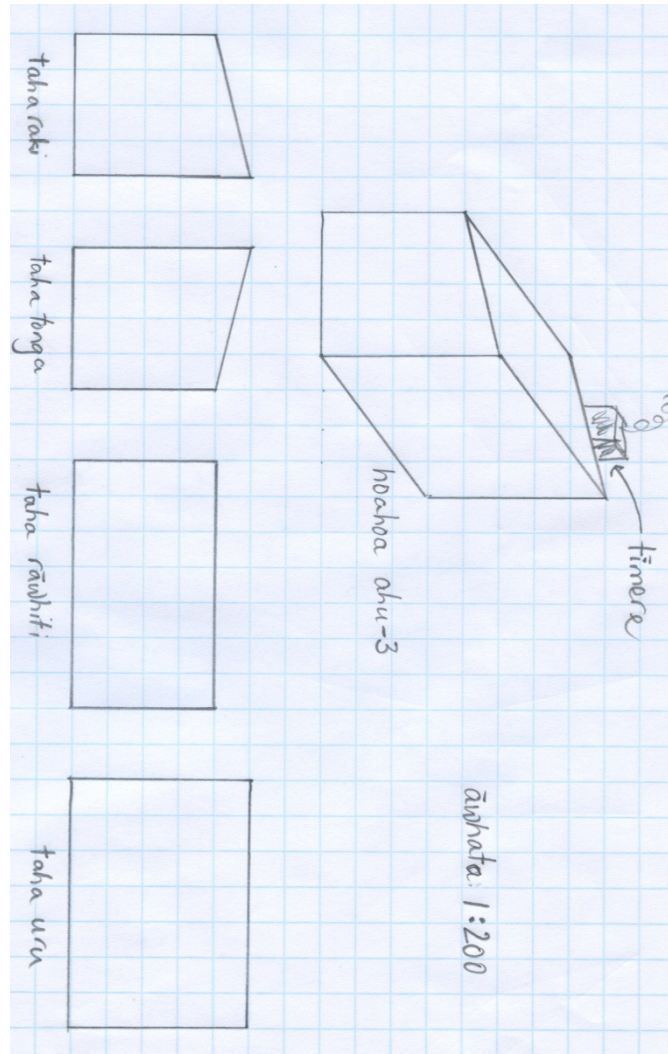
**Whāinga Paetae:**

Taumata 4, Te Ine me te Āhuahanga

1. Ka whakaoti rapanga whaitake: ka whakawhitiwhiti waeine māmā; ka whakamahi i ngā inenga tapa ki te whiriwhiri i te horahanga o te tapawhā hāngai.
3. Ka tūhono i te āhua ahu-3 me tōna hoahoa ahu-2.

**Te Rapanga:**

Koia nei te hoahoa o tētahi wharau (kāuta). E kitea ana te hoahoa ahu-3, me ētahi tirohanga e whā. Kua tuhia ki te pepa tukutuku. E 5mm te rahi o ia wehenga o te tukutuku.



Kua tuhia ā-ringatia noa iho te tīmere o te wharau ki te hoahoa ahu-3, engari kāore anō kia whakaaturia ki ngā tirohanga e whā.

### Hei Mahi:

#### 1. E hia mita te whānui me te roa o te wharau?

$5\text{mm} \times 200 = 1,000\text{mm} = 1\text{m}$  (ia wehenga o te tukutuku)

Nō reira, whānui = 4m, roa = 7m

He pātai āwhina hei tuku mā te kaiako (ina hiahiatia):

- E hia mitamano (mm) te rahi o ia wehenga o te tukutuku?
- He aha te āwhata o te hoahoa? He aha te tikanga o te 1:200?
- Mēnā e 5mm ia wehenga o te tukutuku, me whakarea tērā ki te aha hei whiriwhiri i te roa o te wharau?
- E hia wehenga o te tukutuku te whānui o te hoahoa o te wharau?
- Me pēhea te huri i te inenga mitamano (mm) hei mita (m)?

#### 2. E hia mita te teitei o te taha poto me te taha roa o te wharau?

$5\text{mm} \times 200 = 1,000\text{mm} = 1\text{m}$  (ia wehenga o te tukutuku)

Nō reira, teitei (taha poto) = 4m, teitei (taha roa) = 5m

He pātai āwhina hei tuku mā te kaiako (ina hiahiatia):

- E hia mitamano (mm) te rahi o ia wehenga o te tukutuku?
- He aha te āwhata o te hoahoa? He aha te tikanga o te 1:200?
- Mēnā e 5mm ia wehenga o te tukutuku, me whakarea tērā ki te aha hei whiriwhiri i te teitei o te wharau?
- E hia wehenga o te tukutuku te teitei o te taha poto i te hoahoa o te wharau?
- Me pēhea te huri i te inenga mitamano (mm) hei mita (m)?

### 3. E hia mita pūrua te horahanga o te papa o te wharau?

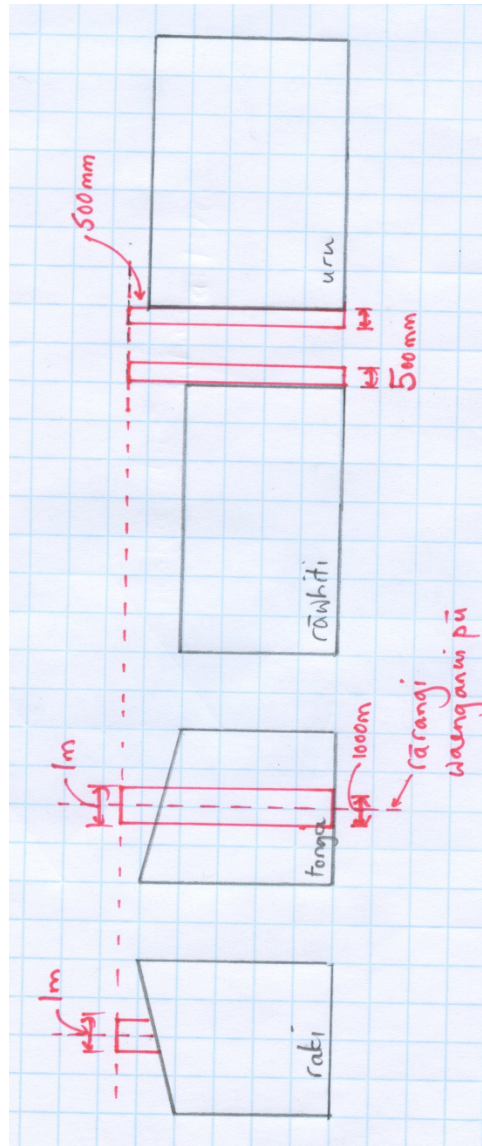
$$\begin{aligned}\text{Horahanga} &= \text{whānui} \times \text{roa} \\ &= 4 \times 7 \\ &= 28\text{m}^2\end{aligned}$$

He pātai āwhina hei tuku mā te kaiako (ina hiahiatia):

- E hia mita te roa o te wharau?
- E hia mita te whānui o te wharau?
- He pai pea ki te tuhi i tētahi hoahoa a-manu o te wharau.
- He aha te āhua o te papa o te wharau?
- Me pēhea te whiriwhiri i te horahanga o tētahi tapawhā hāngai?

### 4. Māu e tuhi ngā tirohanga e whā ki te pepa tukutuku, me te whakaatu anō i te tīmere ki ērā tirohanga:

- Kei waenganui pū te tīmere i te pātū whakatetonga o te wharau.
- Kia 500mm te teitei ake o te tīmere i te tuanui o te wharau.
- He tapawhā hāngai te pūtake o te tīmere, 1m tōna roa, e 50cm tōna whānui.



He pātai āwhina hei tuku mā te kaiako (ina hiahiatia):

- Ki tētahi taha o te wharau te tīmere?
- Tuhia te rārangi kei waenganui pū i te taha tonga o te wharau?
- Pēhea nei te roa o te pūtaka o te tīmere? Nō reira kia hia mitamano (mm) ki ia taha o te rārangi waenganui pū?
- Tuhia he rārangi hei whakaatu i te teitei o te tīmere – he haurua mita ki runga ake i te taha teitei o te wharau.
- Ki tēhea pito o te taha rāwhiti o te wharau te tīmere?
- Pēhea nei te whānui o te pūtaka o te tīmere?