

Ihumanea Pāngarau Te Hoahoa Pouaka MĀ TE POUAKO

Kia Mōhio te Ākonga ki:

- te tuhi hoahoa āwhata
- te whakaatu i tētahi āhua ahu-3 hei hoahoa ahu-2
- te whai i tētahi rautaki arorau hei whakaoti rapanga
- te whiriwhiri i te rōrahi o tētahi pouaka

Kupu Matua:

hoahoa āwhata, rōrahi, rearua

Whāinga Paetae:

Taumata 4, Te Ine me te Āhuahanga

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

Te Rapanga:

Koia nei tētahi pukapuka o roto te kohinga *Tihei Pāngarau*. He mitamano (mm) ngā inenga tapa.



Kei te hoahoa a Maioha i tētahi pouaka hei kawē i te 20 o ēnei pukapuka.

1. He aha ngā inenga tapa o ētahi pouaka rerekē e toru?

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

- He aha ētahi putunga rerekē mō ēnei pukapuka 20?
- Mēnā ka whakaputua tētahi ki runga i tētahi, he aha ngā inenga – te whānui, te roa me te teitei o te putunga pukapuka?

Hei tauira whakautu:



1



2



3

2. Ko tēhea o ngā pouaka e toru te mea iti rawa atu tōna rōrahi?

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

- Me pēhea te whiriwhiri i te rōrahi o te pouaka?
- He aha te waeine mō te roa o ngā tapa?
- Nō reira, he aha te waeine mō te rōrahi o te pouaka?

Hei tauira whakautu:

$$\begin{aligned}\text{Pouaka 1: Rōrahi} &= \text{roa} \times \text{whānui} \times \text{teitei} \\ &= 25\text{cm} \times 20\text{cm} \times 20\text{cm} \\ &= 10,000\text{cm}^3\end{aligned}$$

$$\begin{aligned}\text{Pouaka 2: Rōrahi} &= \text{roa} \times \text{whānui} \times \text{teitei} \\ &= 25\text{cm} \times 40\text{cm} \times 10\text{cm} \\ &= 10,000\text{cm}^3\end{aligned}$$

$$\begin{aligned}\text{Pouaka 3: Rōrahi} &= \text{roa} \times \text{whānui} \times \text{teitei} \\ &= 50\text{cm} \times 20\text{cm} \times 10\text{cm} \\ &= 10,000\text{cm}^3\end{aligned}$$

Nō reira he ōrite te rōrahi o ēnei pouaka e toru.

3. Ki a koe ko tēhea o ngā pouaka te mea pai rawa atu hei hanga mā Maioha? He aha ai?

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

- Ki tō titiro, ko tēhea o ngā pouaka te mea māmā ake te hiki?
- He aha koe i whakaaro ai ko tēnā te pouaka pai rawa atu mō ēnei pukapuka?

Hei tauira whakautu:

Ko te pouaka 1 te mea pai rawa atu nā te mea, koia pea te pouaka māmā te hiki, karekau he tapa tino roa.

4. E 20 ngā pukapuka ka uru ki roto i te pouaka i hoahoatia e koe. Mēnā ka rearuatia ia tapa o te pouaka, e hia ngā pukapuka ka uru ki roto?

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

- Mēnā ka rearuatia tētahi tapa kotahi noa iho o te pouaka, e hia ngā pukapuka ka uru ki roto i te pouaka hou?

- Ināianeī ka rearuatia tētahi atu o ngā tapa, e hia ngā pukapuka ka uru ki roto i tēnei pouaka hou?
- Ināianeī ka rearuatia te tapa tuatoru, e hia ngā pukapuka ka uru ki roto i tēnei pouaka hou?

Hei tauira whakautu:

Mēnā ka rearuatia te whānui o te pouaka, ka 40 ngā pukapuka ka uru ki roto. Rearuatia te teitei o te pouaka ināianeī, ka 80 ngā pukapuka ka uru ki roto. Rearuatia te roa o te pouaka ināianeī, ka 160 ngā pukapuka ka uru ki roto.

