

Ihumanea Pāngarau Paenga Taparau MĀ TE KAIKO

Kia Mōhio te Ākongi ki:

- te tātai i te paenga o tētahi taparau
- te tuhi whārite taurangi hei whakaatu i tētahi tātaitanga

Kupu Matua:

paenga, whārite

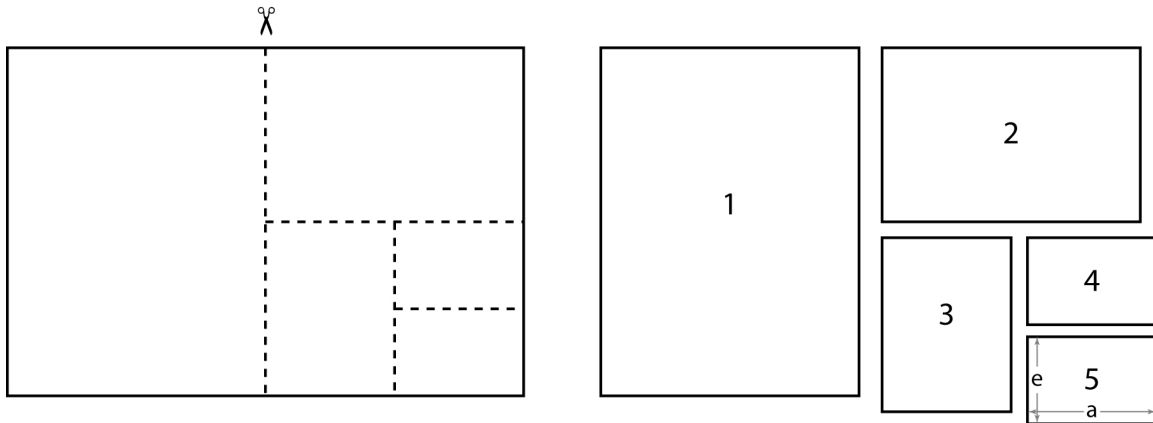
Whāinga Paetae:

Taumata 4, Te Tau me te Taurangi

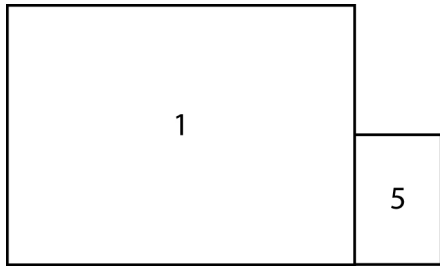
5. Ka tuhi whārite rārangi ki te whakatauirā pūāhua whaitake, ka whakaoti hoki i te whārite.

Hei Mahi:

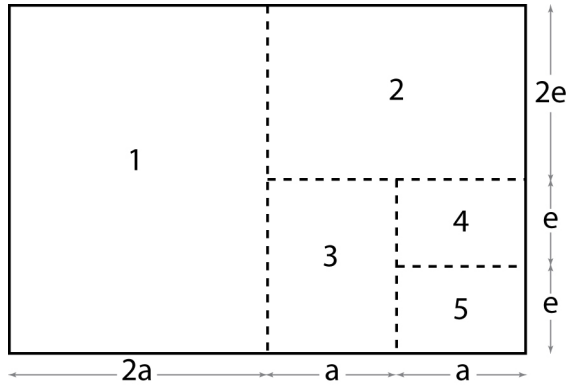
Tīkina tētahi pēpa, he tapawhā hāngai te āhua. Tapahia te pepa kia haurua. Tapahia tētahi o aua haurua kia haurua anō. Kia pērā te haere kia 5 rā anō ngā tapawhā hāngai katoa. Ka tapaina ko te a hei tapa roa mō te tapawhā hāngai iti rawa, ko te e hei tapa poto. Anei te pikitia hei āwhina:



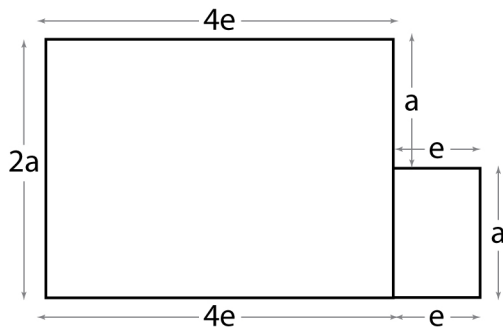
1. Whakamāramatia tēnei whārite hei tātai i te paenga o te tapawhā hāngai iti rawa?
 $P = 2a + 2e$
Huri amio i te tapawhā hāngai nei, e rua ngā tapa roa ($2a$), e rua hoki ngā tapa poto ($2e$). Hui katoa aua tapa e whā, koia te paenga (P), arā, $P = 2a + 2e$.
2. Koia nei tētahi hononga o te tapawhā hāngai nui me te tapawhā hāngai iti.
Whakamāramatia te whārite $P = 10a + 4e$ hei tātai i te paenga o tēnei āhua.



Kia hoki anō ki te pepa i tapahia i te tuatahi, ka tuhi ai i te roa o ngā tapa:



Ka whakawhitia atu ēnei roa ki te hononga o ngā tapawhā hāngai nui me te mea iti:

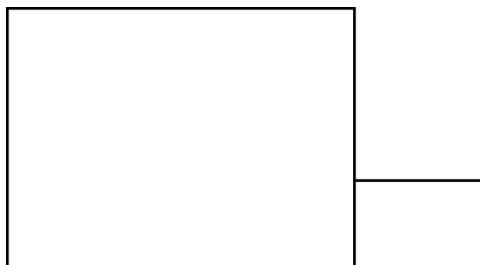


Nō reira, huri amio i te āhua, ko te paenga:

$$P = 4e + a + e + a + e + 4e + 2a$$

$$= 4a + 10e$$

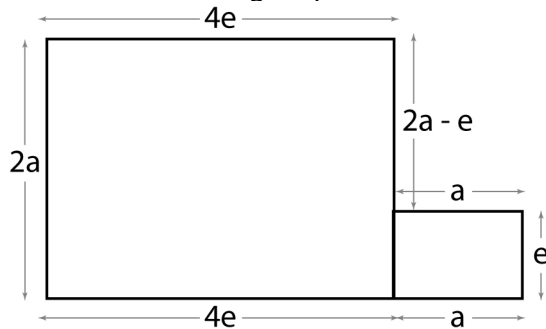
3. Ka huri kia pēnei te hononga o te tapawhā hāngai nui me te tapawhā hāngai iti:



Tuhia te whārite hei tātai i te paenga o tēnei āhua.

Mēnā $e = 2.5\text{cm}$ te roa o te a , 1.5cm te roa o te e , tātaihia te paenga o tēnei āhua.

Ka tuhia te roa o ngā tapa ki te āhua:



Nō reira, huri amio i te āhua, ko te paenga:

$$P = 4e + 2a - e + a + e + a + 4e + 2a$$

$$= 6a + 8e$$

Mēnā $a = 2.5\text{cm}$, $e = 1.5\text{cm}$

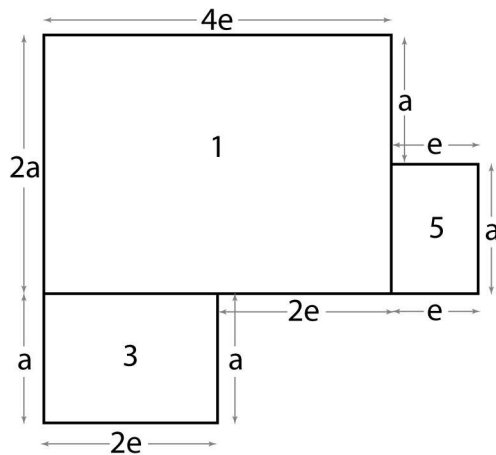
$$P = 6 \times 2.5 + 8 \times 1.5$$

$$= 15 + 12$$

$$= 27\text{cm}$$

4. Honoa kia toru o ngā tapawhā hāngai, ka tuhi ai i te whārite hei tātai i tōna paenga.

Hei tauira:



$$P = 4e + a + e + a + e + 2e + a + 2e + a + 2a$$

$$= 6a + 10e$$