

Hei mahi whakamahere anake

Paerewa Paetae Pāngarau 1.4A: Te whakamahi tikanga taurangi rārangi hei whakaoti rapanga

Te Kaupapa Ako: Pāngarau

Te Ingoa o te Rauemi: He Kaupapa Mahi Moni

Whiwhinga: 3

Tohutohu mā te Ākonga

Te Horopaki

E toru ngā rōpū ākonga o te kura e whakatū kaupapa ana hei mahi moni, hei hoko taonga mā te kapa haka. Ko tāu mahi i tēnei aromatawai, he whakatairite i ngā kaupapa e toru nei.

Rōpū A:

He hoko tōtiti te kaupapa.

E 20 hēneti te utu hei hoko mā rātou i ia tōtiti.

Ka hokona atu ia tōtiti mō te \$1.20

Kua takohatia mai te parāoa me te kīnaki, engari e \$25 te utu hei rīhi i te pūrere rorerore mīti.

Rōpū E:

He hoko tīhāte te kaupapa.

E \$7 te utu hei hoko mai i ia tīhāte.

E \$2 te utu hei tāmoko i ia tīhāte, me te \$175 hei whakarite i te pūrere tā i te tāmoko.

E hokona atu ana ngā tīhāte mō te \$15

Koinei te whārite hei tātai i te moni hua: $H = 15t - 7t - 2t - 175$. Ko te H hei tohu i te moni hua. Ko te t hei tohu i te maha o ngā tīhāte.

Rōpū H:

- He hoko parāoa parai te kaupapa.
- He mea takoha mai ngā parāoa parai, kāore he utu.
- E hokona atu ana ngā parāoa parai mō te \$0.50.

Hei mahi

- 1 Tuhia he tūtohi hei whakatairite i te moni hua ka puta ki tēnā rōpū ki tēnā rōpū.
- 2 Tuhia he whārite hei tātai i te moni hua ka puta ki ia rōpū.
- 3 Tuhia he kauwhata rārangi hei whakaatu i te maha o ngā mea e hokona ana me te moni hua ka puta ki ia rōpū. Tuhia ngā rārangi ki te kauwhata kotahi.
- 4 Tuhia he whakamārama mō te wāhi i te kauwhata e haukoti ana ētahi o ngā rārangi e rua.
- 5 Tuhia he whakamārama mō te rōnaki o tētahi o ngā rārangi.
- 6 Tuhia he whakamārama mō te wāhi e haukoti ana te rārangi o te Rōpū A i te tuaka pou o te kauwhata.
- 7 Whiriwhiria te maha o ngā hokonga e ōrite ai te moni hua a te Rōpū H me te Rōpū E.
- 8 He pēhea ōu whakaaro mō te kaupapa he rahi rawa te moni hua ka puta?
- 9 Mēnā ka piki ake te utu ki te \$10 hei hoko mai mā te Rōpū E i ngā tīhāte, ka pēhea nei te whakatairite i te moni hua ki ērā atu o ngā rōpū ināianei?

Taunakitanga: Pāngarau 1.4A He Kaupapa Mahi Moni

Taunakitanga – mō te Paetae	Taunakitanga – mō te Kaiaka	Taunakitanga – mō te Kairangi																												
<p>E tutuki ai te taumata o te paetae, ka whakamahi tikanga taurangi rārangi te ākongā hei whakaoti i etahi wāhanga o tēnei ngohe. Arā:</p> <ul style="list-style-type: none"> te whiriwhiri me te whakamahi i ētahi tikanga taurangi whānui; te whakaatu mōhiotanga ki ngā huatau taurangi, me ngā kupu e hāngai ana; te whakamārama i ngā otinga mēnā kotahi e rua rānei ngā mahi o roto i te tikanga i whakamahia ai. <p>Kia toru, nui ake rānei ngā tikanga taurangi rārangi hei whakaatu mā te ākongā, pērā i te tūtohi, te whārite, te whārite tukutahi, me te tuhi kauwhata rārangi. Hei taurira:</p> <p>Te tūtohi</p> <table border="1" data-bbox="291 790 1097 1061"> <thead> <tr> <th>te maha o ngā hokonga</th> <th>10</th> <th>20</th> <th>30</th> <th>50</th> <th>100</th> <th>200</th> </tr> </thead> <tbody> <tr> <td>Rōpū A</td> <td>-\$15</td> <td>-\$5</td> <td>\$5</td> <td>\$25</td> <td>\$75</td> <td>\$175</td> </tr> <tr> <td>Rōpū E</td> <td>-\$115</td> <td>-\$55</td> <td>\$5</td> <td>\$125</td> <td>\$425</td> <td>\$1025</td> </tr> <tr> <td>Rōpū H</td> <td>\$5</td> <td>\$10</td> <td>\$15</td> <td>\$25</td> <td>\$50</td> <td>\$100</td> </tr> </tbody> </table> <p>Te whārite Ko te whārite hei tātai i te moni hua mō te rōpū A: $H = 1.2t - 0.2t - 25$ (H = moni hua, t = te maha o ngā tōtiti) Nō reira, $H = t - 25$</p> <p>Te whārite tukutahi Hei tātai i te maha o ngā hokonga e ōrite ai te moni hua a te Rōpū H me</p>	te maha o ngā hokonga	10	20	30	50	100	200	Rōpū A	-\$15	-\$5	\$5	\$25	\$75	\$175	Rōpū E	-\$115	-\$55	\$5	\$125	\$425	\$1025	Rōpū H	\$5	\$10	\$15	\$25	\$50	\$100	<p>E tutuki ai te taumata o te kaiaka, ka whakamahi tikanga taurangi rārangi te ākongā hei whakaoti i tēnei ngohe, me te whai wāhi mai o te whakaaro tūhonohono. Arā:</p> <ul style="list-style-type: none"> te whiriwhiri me te whakatutuki i te raupapatanga mahi arorau e hāngai ana; te tūhono i ētahi huatau rerekē, i ētahi whakaahuahanga rerekē rānei; te whakaatu māramatanga ki ngā huatau e hāngai ana; te hanga me te whakamahi taurira; <p>me te tūhono i ngā otinga ki te horopaki, te whakamahi rānei i ngā kīanga pāngarau e hāngai ana hei whakawhitiwhiti whakaaro.</p> <p>Hei taurira: Ko te whakamahi whārite rārangi hei tuhi i te kauwhata e hāngai ana. Arā, ko te tau tāpiri hei tohu i te wāhi haukoti i te tuaka pou, ko te tau whakarea hei tohu i te rōnaki: Mō te Rōpū E: $H = 6h - 175$</p> <p>Ko te 6 te rōnaki o te rārangi, ko te -\$175 te haukotinga i te tuaka pou.</p>	<p>E tutuki ai te taumata o te kairangi, ka whakamahi tikanga taurangi rārangi te ākongā hei whakaoti i tēnei ngohe, me te whai wāhi mai o te whakaaro waitara whānui. Arā:</p> <ul style="list-style-type: none"> te waihanga rautaki hei tūhura, hei whakaoti rānei i tēnei ngohe te tautohu i ngā huatau e hāngai ana ki te horopaki; te whakaputa i tētahi raupapatanga whakaaro arorau, i tētahi hāponotanga rānei; te hanga whakawhānuitanga; <p>me te whakamahi kīanga pāngarau tika, te whakawhitiwhiti rānei i te aroā pāngarau.</p> <p>Kia tika te whakaoti i te pātai tuawaru me te pātai tuaiwa, me te whakamahi anō i ngā kīanga pāngarau tika hei whakamārama i ngā otinga.</p> <p>Hei taurira o te whakaaro waitara: He rahi ake te whiwhinga moni hua a te Rōpū H, mēnā he rahi ake i te 32 ngā hokonga.</p> <p>He māmā ake te hoko i ngā tōtiti 32 me te hoko i ngā parāoa parai 32 i te hoko tihāte 32, nā te mea he tino</p>
te maha o ngā hokonga	10	20	30	50	100	200																								
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te Rōpū E:

mō te Rōpū E: $H = 6h - 175$

mō te Rōpū H: $H = 0.5h$

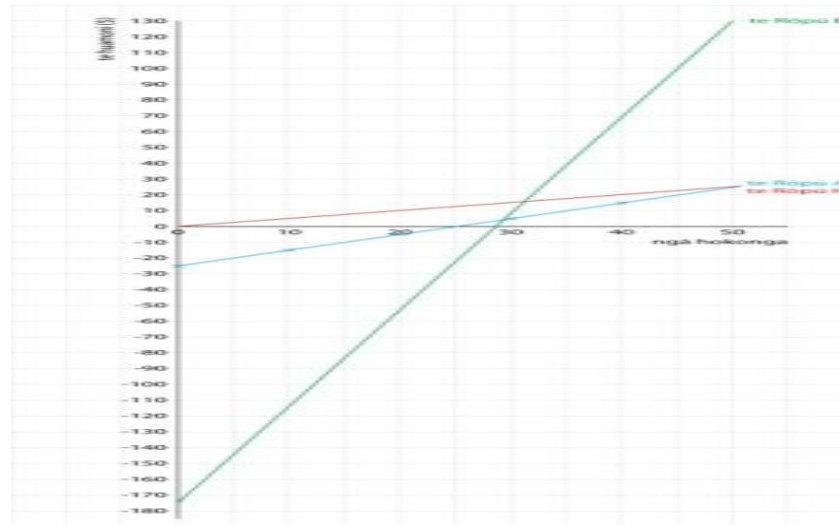
Ko te H hei tohu i te moni hua, ko te h hei tohu i te maha o ngā hokonga.

Ina tangohia te whārite mō te Rōpū H i te whārite mō te Rōpū E:

$$0 = 5.5h - 175$$

Nō reira $h = 32$ (kua whakaawhiwhia ki te tauoti e pātata ana)

Te kauwhata



Ko te whakamāori kauwhata:

- He tino pou pou ake te rōnaki o te kauwhata o te Rōpū E i te rōnaki o ērā atu o ngā rōpū, nā te mea he rahi kē ake te whiwhinga moni hua mō ia mea e hokona ana.
- Ko te 25 te haukotinga o te kauwhata mō te Rōpū A i te tuaka pou. E tohu ana tērā i te whakapaunga o te \$25 hei rīhi i te pūrere rorerore mīti.
- Ko te 25 te haukotinga o te kauwhata mō te Rōpū A i te tuaka pae. E tohu ana tērā kia eke rā anō ki te 25 ngā hokonga tōtiti, kātahi rā ka puta he moni hua ki tēnei rōpū.
- E haukoti ana te rārangi mō te Rōpū A me te Rōpū E i te wāhi o te 30 i te tuaka pae. Koirā e tohu ana i te ōrite o te moni hua a ēnei rōpū e rua mēnā e 30 ngā hokonga a tēnā me tēnā.

māmā kē atu te utu.

Ahakoia ka tino piki ake te moni hua a te Rōpū H mēnā ki tua atu i te 30 te hokona o ngā tīhāte, ki te kore e eke ki te 30, kei raro rātou e putu ana i te whero. Arā, ka noho nama tonu, karekau he moni hua.

Tērā te tūraru e kawea ana e te Rōpū A me te Rōpū H, ina ki te kore e eke ki tua atu i te 25 ngā hokonga (mō te Rōpū A) i te 30 rānei (mō te Rōpū H) ka noho nama rātou, karekau he whiwhinga moni hua.

Me tuku whakaaro ki te rahi o te moni e hiahiatia ana hei tohu i te kaupapa mahi moni e hāngai ana. Mēnā ko te \$100 noa iho e hiahiatia ana, ko te kaupapa o te Rōpū A, o te Rōpū E rānei ngā mea e pai ana. Mēnā kia eke ki te takiwā o te \$1000 he pai kē ake te kaupapa o te Rōpū H (ina te nui o ngā tōtiti o ngā parāoa parai rānei hei hoko kia eke te moni hua ki te \$1000)

Mēnā ka whakapikia te utu hei hoko mai i ngā tīhāte ki te \$10, ko te whārite hei tātai i te moni hua, ko te: $H = 3t - 175$. Kia eke rā anō te hokonga tīhāte ki te 59, kātahi ka whai moni hua tēnei o ngā rōpū. Arā, ka piki ake te tūraru.