

Ihumanea Pāngarau He Rautaki Tāpiritanga MĀ TE KAIKO

Kia Mōhio te Ākonga ki:

- ētahi rautaki whakaoti tāpiritanga
- te tuhi whakaahua hei whakaatu i tētahi rautaki tāpiritanga

Kupu Matua:

rautaki, tāpiri, tango, tau māmā, wāwāhi uara tū

Whāinga Paetae:

Taumata 3, Te Tau me te Taurangi

3. Ka kōwhiri, ka whakamārama i te rautaki e tino whaihua ana hei whakaoti rapanga e whai wāhi mai ana te tauoti, te hautau, te tau ā-ira māmā me te ōrau: rautaki tatau; rautaki whakarōpū; rautaki tohatoha ōrite; rautaki tāpiripiri; rautaki whakarea māmā.
4. Ka mārama ki te whaitakenga o te otinga o tētahi rapanga.

Hei Mahi:

1. E whiriwhiri ana a Māia i te tāpiritanga $97 + 78 = \square$.

Koia nei tana whiriwhiringa: $100 + 75 = 175$

a) Whakamāramahia te rautaki a Māia.

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

- He aha te hononga o te 97 me te 100?
- He aha i huri ai te 78 ki te 75?

He tauira whakamārama ā-kupu:

Ka tāpiria te 3 ki te 97, ka tangohia te 3 i te 78. Ka pūmau tonu te otinga o te tāpiritanga, ā, he tau māmā te 100 – he māmā te tāpiri i tētahi tau ki te 100. Ko te $100 + 75$ te tāpiritanga hou, ko te 175 te otinga.

He tauira whakaahuahanga:

$$\begin{array}{c} 97 + 78 = \square \\ \begin{array}{c} +3 \quad \quad -3 \\ \curvearrowright \quad \quad \curvearrowleft \end{array} \\ 100 + 75 = 175 \end{array}$$

e) Whakamahia te rautaki a Māia hei whakaoti i ēnei tāpiritanga:

$$68 + 46 = \square$$

$$\begin{array}{c} 68 + 46 = \square \\ +2 \quad \swarrow \quad \searrow \quad -2 \\ 70 + 44 = 114 \end{array}$$

$$698 + 137 = \square$$

$$\begin{array}{c} 698 + 137 = \square \\ +2 \quad \swarrow \quad \searrow \quad -2 \\ 700 + 135 = 835 \end{array}$$

2. E whiriwhiri ana a Manahi i te tāpiritanga $23 + 48 = \square$.

Koia nei tana whiriwhiringa: $23 + 50 - 2 = 71$

a) Whakamāramahia te rautaki a Manahi.

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

- Ka pūmau tonu te 23 i tēnei tāpiritanga, engari i huri te 48. I huri te 48 ki te aha?
- Nō hea te $50 - 2$ i te tāpiritanga tuarua?

He tauira whakamārama ā-kupu:

Ka noho pūmau tonu te 23. Ka huri te 48 ki te $50 - 2$. He ōrite te 48 ki te $50 - 2$, nō reira ka pūmau tonu te otinga o te tāpiritanga. He tau māmā te 50. He māmā te tāpiri i te 50 ki te 23, ko te 83 tērā. Ināianei, ka tangohia te 2, ko te 71 te otinga.

He tauira whakaahuahanga:

$$\begin{aligned} 23 + 48 &= \square \\ &= 23 + 50 - 2 \\ &= 73 - 2 \\ &= 71 \end{aligned}$$

e) Whakamahia te rautaki a Manahi hei whakaoti i ēnei tāpiritanga:

$$34 + 57 = \square$$

$$\begin{aligned} 34 + 60 - 3 \\ = 94 - 3 \\ = 91 \end{aligned}$$

$$124 + 98 = \square$$

$$\begin{aligned} 124 + 100 - 2 \\ = 224 - 2 \\ = 222 \end{aligned}$$

3. E whiriwhiri ana a Roimata i te tāpiritanga $75 + 39 = \square$.

Koia nei tana whiriwhiringa: $100 + 14 = 114$

a) Whakamāramahia te rautaki a Roimata.

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

- Ki tō titiro, nō hea te 100 i te whiriwhiringa a Roimata?
- Wāwāhia te 75 me te 39. Tāpiria ngā tekau. E hia ngā tekau?
- Tāpiria ngā tahi. E hia ngā tahi?

He tauira whakamārama ā-kupu:

Ka wāwāhia te 75 me te 39 ki ngā uara tū. Ko te 70 me te 5, ko te 30 me te 9. Tāpiria ngā tekau, arā, te $70 + 30$, ko te 100 te tapeke. Tāpiria ngā tahi, arā, $5 + 9$, ko te 14 te tapeke. Ināianei ka tāpiria te 100 me te 14, ko te 114 te otinga

He tauira whakaahuahanga:

$$\begin{aligned}75 + 39 &= \square \\70 + 5 + 30 + 9 \\&= 70 + 30 + 5 + 9 \\&= 100 + 14 \\&= 114\end{aligned}$$

e) Whakamahia te rautaki a Roimata hei whakaoti i ēnei tāpiritanga:

$$\begin{aligned}84 + 73 &= \square \\80 + 4 + 70 + 3 \\&= 80 + 70 + 4 + 3 \\&= 150 + 7 \\&= 157\end{aligned}$$

$$\begin{aligned}66 + 39 &= \square \\60 + 6 + 30 + 9 \\&= 60 + 30 + 6 + 9 \\&= 90 + 15 \\&= 115\end{aligned}$$