

# Te Poutama Tau

## Āpitihanganga Uiuui Rautaki 3

### Rauemi:

Kia 20 ngā porotiti, kia 2 ngā kāri he A5 te rahi

	Aronga	Ngā mahi me ngā kōrero a te pouako	Hei ārahi i te aromatawai	Hei tauira rautaki
Patai 1	<p><b>Tāpiri/Tango</b> Kaupae 1 Tatau pānga tahi 1 – 8</p>	<p>Whakaputua ētahi taonga (pēnei i te porotiti) ki mua i te tamaiti.</p> <p><b>“Tangohia (Homai, Tikina) kia waru ngā porotiti.”</b></p>	<p>Ki te kore e taea te tatau pānga tahi ki te 9, kei te Kaupae 0 o Te Mahere Tau.</p> <p>Me mutu ngā pātai i konei.</p> <p>Mēnā e tika ana te tatau pānga tahi, me haere tonu ki te Pātai 2.</p>	1, 2, 3, 4, 5, 6, 7, 8
Patai 2	<p><b>Tāpiri/Tango</b> Kaupae 2-3, 4 Whanaketanga 1a/1e Te tatau ā-hinengaro Tatau ake 3 + 6</p>	<p>Hoatu ētahi porotiti e 4 ki tētahi ringa o te tamaiti, kia 3 ki tētahi. Katia ngā ringa kia kore ai ngā porotiti e kitea.</p> <p><b>“Anei ētahi porotiti e toru. Anei ētahi atu porotiti e ono. E hia katoa ngā porotiti?”</b></p> <p>Mēnā he uaua te tatau ā-hinengaro i ngā porotiti, e pai ana kia huakina ngā ringa kia kitea ā-karu.</p>	<p>Ki te kore e taea:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 1 o Te Mahere Tau.</li> <li>• Kāore anō kia eke ki te Taumata 1a o Ngā Whanaketanga.</li> </ul> <p>Me mutu ngā pātai i konei.</p> <p>Mēnā ka tika mā te tatau i ngā porotiti:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 2 o Te Mahere Tau.</li> <li>• Kei te Taumata 1a o Ngā Whanaketanga.</li> </ul> <p>Me mutu ngā pātai i konei.</p> <p>Mēnā ka tika mā te tatau ā-hinengaro, mā tētahi rautaki hōhonu kē atu, me haere tonu ki te Pātai 3.</p>	<p>1, 2, 3, 4, 5, 6, 7, 8, 9 (me te pā anō o te mati ki ia porotiti)</p> <p>1, 2, 3, 4, 5, 6, 7, 8, 9 (tatau ā-hinengaro)</p> <p>3... “4, 5, 6, 7, 8, 9” (tatau ake)</p> <p>6... “7, 8, 9” (tatau ake)</p> <p>3 + 6 = 9 (he meka mōhio)</p>

Patai 3	<p><b>Tāpiri/Tango</b> Kaupae 3, 4, 5 (tōmua) Whanaketanga 1e, 2a</p> <p>Tatau ā-hinengaro Tatau ake Wāwāhi tau</p> <p>8 + 7</p>	<p>Uhia kia 8 ngā porotiti ki raro i tētahi kāri, kia 7 ki raro i tētahi atu kāri.</p> <p>Whakaaturia ngā porotiti ki te tamaiti, ka uhi anō ai.</p> <p><b>“E 8 ngā porotiti kei raro i tēnei kāri. E 7 kei raro i tēnei. E hia katoa ngā porotiti?”</b></p> <p><b>I pēhea koe i mōhio ai?</b></p> <p><b>Whakamāramahia mai ō mahi.”</b></p>	<p>Ki te kore e taea:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 3 o Te Mahere Tau.</li> <li>• Kei te Taumata 1e o Ngā Whanaketanga.</li> </ul> <p>Me mutu ngā pātai i konei.</p> <p>Mēnā ka tika mā te tatau ake i te 8, i te 7 rānei:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 4 o Te Mahere Tau.</li> <li>• Kei te Taumata 1e o Ngā Whanaketanga.</li> </ul> <p>Haere tonu ki te Pātai 4 me te 5.</p> <p>Mēnā ka tika mā tētahi rautaki wāwāhi tau:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 5 (tōmua) o Te Mahere Tau, kei tua ake rānei.</li> <li>• Kei te Taumata 2a o Ngā Whanaketanga</li> </ul> <p>Haere tonu ki te Pātai 4 me te 5.</p>	<p>8 ... “9, 10, 11, 12, 13, 14, 15”</p> <p>7 ... “8, 9, 10, 11, 12, 13, 14, 15”</p> <p><math>8 + 2 + 5 = 10 + 5 = 15</math></p> <p><math>7 + 7 = 14; 14 + 1 = 15</math></p> <p><math>8 + 8 = 16; 16 - 1 = 15</math></p> <p><math>8 + 7 = (5 + 3) + (5 + 2) = 5 + 5 + 5 = 15</math></p> <p><math>8 + 7 = 15</math> (he meka mōhio)</p>
Patai 4	<p><b>Whakarea/Whakawehe</b> Kaupae 3, 4, 5 (tōmua) Whanaketanga 1e, 2a</p> <p>3 × 6</p>	<p>Whakaaturia te rapanga ki te ākongā. Tohua tētahi rārangi (kapa) o ngā motukā, ka pātai ai:</p> <p><b>“E hia ngā motukā kei ia rārangi?”</b></p> <p>Tohua ia rārangi o ngā motukā, ka pātai ai i te pātai:</p> <p><b>“E hia ngā rārangi o ngā motukā?”</b></p> <p>Kātahi ka pānui i te pātai tuatoru.</p> <p><b>“E hia katoa ngā motukā?”</b></p>	<p>Mēnā ka tatauria ā-tahi:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 3 o te Mahere Tau, mō te whakarea me te whakawehe.</li> <li>• Kei te Taumata 1a/1e o Ngā Whanaketanga.</li> </ul> <p>Haere tonu ki te Pātai 5.</p> <p>Mēnā ka tatauria māwhitiwhiti:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 4 o te Mahere Tau, mō te whakarea me te whakawehe.</li> <li>• Kei te Taumata 1e o Ngā Whanaketanga.</li> </ul> <p>Haere tonu ki te Pātai 5.</p> <p>Mēnā ka whakamahia he rautaki tāpiri, he meka mōhio rānei te 3 x 6:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 5 o te Mahere Tau, mō te whakarea me te whakawehe, kei tua atu rānei.</li> <li>• Kei te Taumata 2a o Ngā Whanaketanga.</li> </ul> <p>Haere tonu ki te Pātai 5.</p>	<p>1, 2, 3 ... 18</p> <p>3, 6, 9 ... 18</p> <p>6, 12, 18</p> <p><math>3 + 3 + 3 = 9; 9 + 9 = 18</math></p> <p><math>6 + 6 = 12; 12 + 6 = 18</math></p> <p><math>5 + 5 = 10; 10 + 15 = 15; 15 + 3 = 18</math></p> <p><math>3 \times 6 = 18</math> (he meka mōhio)</p>

Patai 5	<p><b>Pānga Riterite</b> Kaupae 4, 5 (tōmua) Whanaketanga 1e, 2a</p> $12 \div 4$ $\frac{1}{4} \text{ o te } 12$	<p>Whakaaturia te rapanga mō tēnei pātai, ka pānui ai.</p> <p>Hoatu kia 12 ngā porotiti mēnā e hiahiatia ana.</p> <p><b>“12 ngā āporo hei kuhu atu ki te pouaka kia ōrite te maha o ngā āporo ki ia hauwhā o te pouaka. E hia ngā āporo ki ia hauwhā o te pouaka?”</b></p>	<p>Mēnā ka tohaina ā-tahi ngā pāua (ā-ringa, ā-hinengaro rānei):</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 4 o te Mahere Tau, mō te whakarea me te whakawehe.</li> <li>• Kei te Taumata 1e o Ngā Whanaketanga. Me mutu ngā pātai i konei.</li> </ul> <p>Mēnā ka whakamahia tētahi rautaki tāpiri:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 5 (tōmua) o te Mahere Tau, mō te whakarea me te whakawehe.</li> <li>• Kei te Taumata 2a o Ngā Whanaketanga.</li> </ul> <p>Mēnā ka whakamahia he rautaki whakarea/whakawehe, he meka mōhio rānei:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 5 o te Mahere Tau, mō te whakarea me te whakawehe, kei tua atu rānei.</li> <li>• Kei te Taumata 2a o Ngā Whanaketanga, kei tua atu rānei.</li> </ul> <p>Haere tonu ki te Pātai 6.</p>	$3 + 3 = 6; 6 + 3 = 9; 9 + 3 = 12$ $12 \div 2 = 6; 6 \div 2 = 3$ $12 \div 4 = 3 \text{ (he meka mōhio)}$
Patai 6	<p><b>Tāpiri/Tango</b> Kaupae 5 Whanaketanga 2e</p> $57 - 25 = \square$ $25 + \square = 57$	<p>Whakaaturia te rapanga mō tēnei pātai, ka pānui ai.</p> <p><b>“E 57 katoa ngā hipi kei te pāmu a Hinewai. E 25 o ngā hipi kua oti kē te wūru te kuti. E hia ngā hipi e toe ana kia kutia?”</b></p>	<p>Mēnā ka whakamahia he rautaki tāpiri tāruarua:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 5 (tōmua) o te Mahere Tau, mō te tāpiri me te tango.</li> <li>• Kei te Taumata 2a o Ngā Whanaketanga.</li> </ul> <p>Mēnā ka whakamahia he rautaki wāwāhi tau:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 5 o te Mahere Tau, mō te tāpiri me te tango, kei tua atu rānei</li> <li>• Kei te Taumata 2e o Ngā Whanaketanga.</li> </ul> <p>Haere tonu ki te Pātai 7.</p>	$25 + 10 = 35; 35 + 10 = 45; 45 + 10 = 55; 55 + 2 = 57; \text{ nō reira } 25 + 32 = 57$ $25 + 5 = 30; 30 + 20 = 50; 50 + 7 = 57; \text{ hui katoa } 25 + 32 = 57$ $57 - 20 = 37; 37 - 5 = 32, \text{ nō reira } 57 - 25 = 32$ $57 - 25 = (50 - 20) + (7 - 5) = 30 + 2 = 32$ $25 + 25 = 50; 50 + 7 = 57, \text{ nō reira } 25 + 32 = 57$
Patai 7	<p><b>Whakarea/Whakawehe</b> Kaupae 5 Whanaketanga 2e</p> $30 \times 6$	<p>Whakaaturia te rapanga mō tēnei pātai, ka pānui ai.</p> <p><b>“E 6 ngā pēke, e 30 ngā ārani kei ia pēke. E hia katoa ngā ārani?”</b></p>	<p>Mēnā ka whakamahia he rautaki wāwāhi tau:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 5 o te Mahere Tau, mō te whakarea me te whakawehe, kei tua atu rānei</li> <li>• Kei te Taumata 2e o Ngā Whanaketanga.</li> </ul> <p>Haere tonu ki te Pātai 8.</p>	$3 \times 6 = 18; 18 \times 10 = 180$ $30 \times 2 = 60; 60 + 60 + 60 = 180$ $30 \times 6 = 180 \text{ (he meka mōhio)}$

Patai 8	<p><b>Pānga Riterite</b></p> <p>Kaupae 5 Whanaketanga 2e</p> <p><math>5 = \frac{1}{4}</math> o te aha?</p>	<p>Whakaaturia te rapanga mō tēnei pātai, ka pānui ai.</p> <p>Tohua te pikitia tuatahi:  <b>“Ka pau i a Hera te \$5 hei hoko kai māna. Koirā te kotahi hauwhā o tana pūtea. E hia tāra te rahi o tana pūtea i te tīmatanga?”</b></p>	<p>Mēnā ka whakamahia he rautaki wāwāhi tau:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 5 o te Mahere Tau, mō te pānga riterite, kei tua atu rānei.</li> <li>• Kei te Taumata 2e o Ngā Whanaketanga.</li> </ul> <p>Haere tonu ki te Pātai 9.</p>	<p><math>5 = \frac{1}{4}</math>, nō reira <math>5 \times 2 = 10 = \frac{1}{2}</math> o te pūtea; <math>10 \times 2 = \\$20 =</math> te katoa o te pūtea</p> <p><math>5 \times 4 = 20</math> (he meka mōhio)</p> <p><math>20 \div 4 = 5</math> (he meka mōhio)</p>
Patai 9	<p><b>Tāpiri/Tango</b></p> <p>Kaupae 6 Whanaketanga 3a</p> <p><math>147 + 36</math></p>	<p>Whakaaturia te rapanga mō tēnei pātai, ka pānui ai.</p> <p><b>“147 ngā hipi, e 36 ngā kau kei te pāmu a Terewai. E hia katoa ēnei kararehe?”</b></p>	<p>Mēnā ka whakamahia he rautaki wāwāhi tau:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 6 (tōmua) o te Mahere Tau, mō te tāpiri me te tango, kei tua atu rānei.</li> <li>• Kei te Taumata 3a o Ngā Whanaketanga.</li> </ul> <p>Haere tonu ki te Pātai 10.</p>	<p><math>7 + 36 = 147 + 30 + 6 = 177 + 6 = 183</math></p> <p><math>147 + 36 = (140 + 30) + (7 + 6) = 170 + 13 = 183</math></p> <p><math>147 + 36 = 147 + 40 - 4 = 187 - 4 = 183</math></p> <p><math>147 + 36 = 147 + 3 + 33 = 150 + 33 = 183</math></p>
Patai 10	<p><b>Whakarea/Whakawehe</b></p> <p>Kaupae 6 Whanaketanga 3a</p> <p><math>84 \div 6</math></p>	<p>Whakaaturia te rapanga mō tēnei pātai, ka pānui ai.</p> <p><b>“E 84 ngā āporo i katohia e Miriama. Ka wehea ēnei ki ētahi pēke e 6. E hia ngā āporo ki ia pēke?”</b></p>	<p>Mēnā ka whakamahia he rautaki wāwāhi tau:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 6 (tōmua) o te Mahere Tau, mō te whakarea me te whakawehe, kei tua atu rānei.</li> <li>• Kei te Taumata 3a o Ngā Whanaketanga.</li> </ul> <p>Haere tonu ki te Pātai 11.</p>	<p><math>84 \div 6 = (60 \div 6) + (24 \div 6) = 10 + 4 = 14</math></p> <p><math>6 \times \mathbf{10} = 60</math>; <math>6 \times \mathbf{4} = 24</math>, nō reira <math>6 \times \mathbf{14} = 84</math></p> <p><math>42 \div 6 = 7</math> (meka mōhio), nō reira <math>84 \div 6 = 14</math></p>
Patai 11	<p><b>Pānga Riterite</b></p> <p>Kaupae 6 Whanaketanga 3</p> <p><math>\frac{1}{2}</math> o te <math>\frac{1}{4}</math></p>	<p>Whakaaturia te rapanga mō tēnei pātai, ka pānui ai.</p> <p><b>“Ka tapahia tētahi parehe ki ētahi wehenga ōrite e whā. Ka tapahia ēnei wehenga kia haurua. He hau aha ēnei wehenga iti o te parehe tūtahi?”</b></p>	<p>Mēnā ka whakamahia he rautaki pānga riterite:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 6 (tōmua) o te Mahere Tau, mō te pānga riterite, kei tua atu rānei.</li> <li>• Kei te Taumata 3a o Ngā Whanaketanga.</li> </ul> <p>Haere tonu ki te Pātai 12.</p>	<p><math>2 + 2 + 2 + 2 = 8</math>. E 8 katoa ngā wehenga iti, nō reira he hauwaru ia wehenga iti.</p> <p><math>2 \times 4 = 8</math>. E 8 katoa ngā wehenga iti, nō reira he hauwaru ia wehenga iti.</p> <p><math>\frac{1}{2}</math> o te <math>\frac{1}{4} = \frac{1}{8}</math> (he meka mōhio)</p>

Patai 12	<p><b>Tāpiri/Tango</b> Kaupae 6 Whanaketanga 3e  231 – 78</p>	<p>Whakaaturia te rapanga mō tēnei pātai, ka pānui ai.</p> <p><b>“E \$231 kei te pūtea pēke a Hera. Ka tangohia e ia te \$78. E hia tāra e toe ana?”</b></p>	<p>Mēnā ka whakamahia he rautaki wāwāhi tau:</p> <ul style="list-style-type: none"> <li>Kei te Kaupae 6 o te Mahere Tau, mō te tāpiri me te tango, kei tua atu rānei.</li> <li>Kei te Taumata 3e o Ngā Whanaketanga.</li> </ul> <p>Haere tonu ki te Pātai 13.</p>	<p><math>231 - 78 = (230 - 70) + (1 - 8) = 160 - 7 = 153</math>  <math>78 + 2 = 80; 80 + 20 = 100; 100 + 100 = 200;</math>  <math>200 + 31 = 231</math>, nō reira <math>78 + 153 = 231</math>  <math>231 - 78 = 231 - 100 + 22 = 131 + 22 = 153</math>  <math>231 - 78 = 233 - 80 = 153</math>  <math>231 - 78 = 231 - 80 + 2 = 151 + 2 = 153</math></p>
Patai 13	<p><b>Whakarea/Whakawehe</b> Kaupae 6 Whanaketanga 3e  <math>1.5 \times 8</math></p>	<p>Whakaaturia te rapanga mō tēnei pātai, ka pānui ai.</p> <p><b>“1.5 rita te wai kei roto i te ipu kotahi. E hia te rōrahi wai kei roto i ētahi ipu e 8?”</b></p>	<p>Mēnā ka whakamahia he rautaki wāwāhi tau me ngā meka whakarea:</p> <ul style="list-style-type: none"> <li>Kei te Kaupae 6 o te Mahere Tau, mō te whakarea me te whakawehe, kei tua atu rānei.</li> <li>Kei te Taumata 3e o Ngā Whanaketanga.</li> </ul> <p>Haere tonu ki te Pātai 14.</p>	<p><math>1.5 \times 8 = (1 \times 8) + (0.5 \times 8) = 8 + 4 = 12</math>  <math>1.5 \times 2 = 3; 3 \times 4 = 12</math>  <math>1.5 \times 8 = 3 \times 4 = 12</math>  <math>1.5 \times 8 = (1.5 \times 10) - (1.5 \times 2) = 15 - 3 = 12</math></p>
Patai 14	<p><b>Pānga Riterite</b> Kaupae 6 Whanaketanga 3e  <math>14 = 25\%</math> o te aha?</p>	<p>Whakaaturia te rapanga mō tēnei pātai, ka pānui ai.</p> <p><b>“Kua oti i a Hema te 14km te pahikara, koirā te 25% o tana haerenga. Pēhea nei te tawhiti o te katoa o tana haerenga?”</b></p>	<p>Mēnā ka whakamahia he rautaki pānga riterite:</p> <ul style="list-style-type: none"> <li>Kei te Kaupae 6 o te Mahere Tau, mō te pānga riterite, kei tua atu rānei.</li> <li>Kei te Taumata 3e o Ngā Whanaketanga.</li> </ul> <p>Haere tonu ki te Pātai 15.</p>	<p><math>14\text{km} = 25\%</math>, nō reira <math>28\text{km} = 50\%</math>, <math>56\text{km} = 100\%</math>  <math>14 \times 4 = (10 \times 4) + (4 \times 4) = 40 + 16 = 56</math></p>
Patai 15	<p><b>Tāpiri/Tango</b> Kaupae 7 Whanaketanga 4a  <math>7.3 + 4.55</math></p>	<p>Whakaaturia te rapanga mō tēnei pātai, ka pānui ai.</p> <p><b>“E 7.3 manokaramu (7.3kg) te taumaha o ngā āporo i hokona e Poia, e 4.55kg te taumaha o ngā pītiti. E hia katoa te taumaha o ēnei huarākau?”</b></p>	<p>Mēnā ka whakamahia he rautaki wāwāhi tau:</p> <ul style="list-style-type: none"> <li>Kei te Kaupae 7 (tōmua) o te Mahere Tau, mō te tāpiri me te tango, kei tua atu rānei.</li> <li>Kei te Taumata 4a o Ngā Whanaketanga.</li> </ul> <p>Haere tonu ki te Pātai 16.</p>	<p><math>7.3 + 4.55 = (7 + 4) + (0.3 + 0.5) + 0.05 = 11.85</math>  <math>7.3 + 4.55 = 7.3 + 4 + 0.55 = 11.3 + 0.55 = 11.85</math>  <math>7.3 + 4.55 = 0.3 + (7.0 + 4.55) = 0.3 + 11.55 = 11.85</math></p>
Patai 16	<p><b>Whakarea/Whakawehe</b> Kaupae 7 Whanaketanga 4a  <math>47 \div 3</math></p>	<p>Whakaaturia te rapanga mō tēnei pātai, ka pānui ai.</p> <p><b>“Hui katoa, e 47 manokaramu (47kg) te taumaha o ētahi pouaka e toru. He ōrite te taumaha o ia pouaka. Nō reira e hia manokaramu (kg) te taumaha o tētahi pouaka kotahi?”</b></p>	<p>Mēnā ka whakamahia he rautaki wāwāhi tau me ngā meka whakarea:</p> <ul style="list-style-type: none"> <li>Kei te Kaupae 7 (tōmua) o te Mahere Tau, mō te whakarea me te whakawehe, kei tua atu rānei.</li> <li>Kei te Taumata 4a o Ngā Whanaketanga.</li> </ul> <p>Haere tonu ki te Pātai 17.</p>	<p><math>30 \div 3 = 10; 15 \div 3 = 5; 2 \div 3 = \frac{2}{3}</math>, no reira <math>47 \div 3 = 15 \frac{2}{3}</math>.  <math>3 \times 10 = 30; 3 \times 5 = 15</math>, nō reira <math>3 \times 15 = 45</math>. Nō reira <math>15 \frac{2}{3}</math> kg te taumaha o te pouaka kotahi.</p>

Patai 17	<p><b>Pānga Riterite</b> Kaupae 7 Whanaketanga 4a</p> $\frac{5}{8} \text{ o te } 32$	<p>Whakaaturia te rapanga mō tēnei pātai, ka pānui ai.</p> <p><b>“E 32 ngā mokopuna a Hīria. He tama te <math>\frac{5}{8}</math> o ēnei mokopuna. E hia ngā mokopuna tamatāne?”</b></p>	<p>Mēnā ka whakamahia he rautaki pānga riterite:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 7 (tōmua) o te Mahere Tau, mō te pānga riterite, kei tua atu rānei.</li> <li>• Kei te Taumata 4a o Ngā Whanaketanga.</li> </ul> <p>Haere tonu ki te Pātai 18.</p>	$\frac{1}{8}$ o te 32 = $32 \div 8 = 4$ ; $4 \times 5 = 20$ , nō reira $\frac{5}{8}$ o te 32 = 20 $\frac{1}{2}$ o te 32 = 16; $\frac{1}{8}$ o te 32 = 4; $16 + 4 = 20$ , nō reira $\frac{5}{8}$ o te 32 = 20
Patai 18	<p><b>Tāpiri/Tango</b> Kaupae 7/8 Whanaketanga 4e</p> $0.87 + \square = 1.5$	<p>Whakaaturia te rapanga mō tēnei pātai, ka pānui ai.</p> <p><b>“0.87 mita (0.87m) te tāroaroa o Tama. 1.5 mita (1.5m) te tāroaroa o Hine. E hia mita te tāroaroa ake o Hine?”</b></p>	<p>Mēnā ka whakamahia he rautaki wāwāhi tau:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 7 o te Mahere Tau, mō te tāpiri me te tango, kei tua atu rānei.</li> <li>• Kei te Taumata 4e o Ngā Whanaketanga.</li> </ul> <p>Haere tonu ki te Pātai 19.</p>	$0.87 + 0.03 = 0.9$ ; $0.9 + 0.6 = 1.5$ , nō reira $0.87 + \mathbf{0.63} = 1.5$ $1.5 - \mathbf{0.5} = 1$ ; $1 - \mathbf{0.1} = 0.9$ ; $0.9 - \mathbf{0.03} = 0.87$ , nō reira $1.5 - \mathbf{0.63} = 0.87$ $0.87 + \mathbf{0.7} = 1.57$ ; $1.57 - \mathbf{0.07} = 1.50$ , nō reira $0.87 + \mathbf{0.63} = 1.5$ $0.87 + \square = 1.5 \Rightarrow 1.0 + \square = 1.63$ ; nō reira $\square = 0.63$
Patai 19	<p><b>Whakarea/Whakawehe</b> Kaupae 7/8 Whanaketanga 4e</p> $12 \times \square = 180$	<p>Whakaaturia te rapanga mō tēnei pātai, ka pānui ai.</p> <p><b>“Tekau mā rua (12) ngā hēki kei te pouaka hēki kotahi. E hiahiatia ana te 180 hēki hei mahi parakuihi i te marae. E hia ngā pouaka hēki e hiahiatia ana?”</b></p>	<p>Mēnā ka whakamahia he rautaki wāwāhi tau me ngā meka whakarea:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 7 o te Mahere Tau, mō te whakarea me te whakawehe, kei tua atu rānei.</li> <li>• Kei te Taumata 4e o Ngā Whanaketanga.</li> </ul> <p>Haere tonu ki te Pātai 20.</p>	$12 \times 10 = 120$ ; $12 \times 5 = 60$ , nō reira $12 \times 15 = 180$ $12 \times \square = 180 \Rightarrow 6 \times \square = 90 \Rightarrow 3 \times \square = 45$ , nō reira $\square = 15$ $12 \times \square = 180 \Rightarrow 3 \times \square = 60$ , nō reira $\square = 15$ $180 \div 12 = (60 \div 12) + (60 \div 12) + (60 \div 12) = 5 + 5 + 5 = 15$
Patai 20	<p><b>Pānga Riterite</b> Kaupae 7/8 Whanaketanga 4e</p> $16:12 = \square:3$	<p>Whakaaturia te rapanga mō tēnei pātai, ka pānui ai.</p> <p><b>“Ka whakaranua te 16 rita (16l) wai māori me te 12 rita (12l) wai ārani hei mahi i tētahi inu. E whai ana a Hēni kia rite tonu te tāwara o te inu, engari e 3 rita (3l) noa iho tana wai ārani. Kia hia ngā rita wai māori hei whakaranu māna?”</b></p>	<p>Mēnā ka whakamahia he rautaki pānga riterite:</p> <ul style="list-style-type: none"> <li>• Kei te Kaupae 7 o te Mahere Tau, mō te pānga riterite, kei tua atu rānei.</li> <li>• Kei te Taumata 4e o Ngā Whanaketanga.</li> </ul>	$12 \div 4 = 3$ (wai ārani), nō reira $16 \div 4 = 4$ (rita wai māori)