

## Ngā Whāinga Paetae: Te Tau, Taumata 4

Mahere Tau	0	1	2	3	4	5	6	7	8
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## 4.1 (Mātauranga Tau)

Ka mōhio ki: ngā meka whakawehe matua; te whakaawhiwhi tauoti, tau ā-ira hoki.

## 4.2 (Mātauranga Tau)

Ka mōhio ki ngā tikanga o: te tau tōraro me te tau tōrunga; te tau toitū; te ōwehenga; te uara tū o ngā tau ā-ira; te maha o ngā haumano, ngā haurau, ngā hautekau, ngā tahi, ngā tekau, ngā rau me ngā mano kei roto i tētahi tau ā-ira (tae atu kia 3 ngā mati ā-ira).

## 4.3 (Mātauranga Tau)

Ka mōhio ki te kimi mai i ngā taurea me ngā tauwehe o tētahi tau.

## 4.4 (Mātauranga Tau)

Ka mōhio ki ngā hautau, ngā tau ā-ira, ngā ōrau me ngā ōwehenga māmā: ngā huringa hautau ↔ tau ā-ira ↔ ōrau; ngā raupapa tatauranga tau ā-ira (haumano, haurau, hautekau); te raupapa hautau, tau ā-ira, ōrau hoki; te whiriwhiri hautau ōrite.

## 4.5 (Rautaki Tau)

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, te ōrau, te ōwehenga, te tau tōpū me te taupū māmā: rautaki tatau; rautaki tāpiripiri; rautaki whakarea; rautaki pānga riterite māmā.

## 4.6 (Rautaki Tau)

Ka mārāma ki te whaitakenga o te otinga o tētahi rapanga.

Te Mātauranga	Ngā Rauemi e Hāngai ana
Ka raupapahia ngā tau ā-ira, kia toru ngā mati ā-ira. Hei tauira: 6.25 < 6.3	<p><i>TPT, Pukapuka 4:</i></p> <ul style="list-style-type: none"> <li>• Kōwhiuwhiu Tau (wh.36)</li> <li>• He Whare Uara Tū (wh.38)</li> <li>• Ko Wai ka Toa? (wh.48)</li> <li>• Te Hautanga ā-Ira (wh.63)</li> <li>• Hautau Ōrite Huhua (wh.73)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Taumata 3:</i></p> <ul style="list-style-type: none"> <li>• Te Tātai Tau ā-ira (wh.15)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuarua, Taumata 3:</i></p> <ul style="list-style-type: none"> <li>• He Tārai Tauākī (wh.20)</li> </ul>
Ka raupapahia ngā hautau, pērā i ngā haurua, ngā hautoru, ngā hauwhā, ngā haurima me ngā hautekau.	<p><i>TPT, Pukapuka 4:</i></p> <ul style="list-style-type: none"> <li>• Raupapahia ngā Kāri (wh.10)</li> <li>• Raupapahia (wh.17)</li> <li>• He Aho Pirepire (wh.23)</li> <li>• Kei a Wai te Keke Nui? (wh.42)</li> <li>• Te Raupapa Hautau (wh.49)</li> <li>• Te Hautau ki te Papa Tīrau 1 (wh.56)</li> <li>• Te Hautau ki te Papa Tīrau 2 (wh.58)</li> <li>• Ngā Hautau Waetahi-kore (wh.59)</li> <li>• He Pākete Rare (wh.60)</li> <li>• Te Hautanga ā-Ira (wh.63)</li> </ul> <p><i>He Tau Anō Te Tau: Ngā Tau, Taumata 2-3:</i></p> <ul style="list-style-type: none"> <li>• Wāhanga Porohita (wh.17)</li> <li>• Hautau Hirahira (wh.18)</li> <li>• E Hia? (wh.20)</li> </ul>

<p>Ka mōhio ki ngā huringa hautau ↔ tau ā-ira ↔ ōrau mō ngā haurau, ngā hauroru, ngā hauwhā, ngā haurima me ngā hautekau.</p>	<p><i>TPT, Pukapuka 4:</i></p> <ul style="list-style-type: none"> <li>• Hautanga Ōrite (wh.51)</li> <li>• He Aho Pirepire (wh.23)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Taumata 3:</i></p> <ul style="list-style-type: none"> <li>• Te Hautau hei Tau ā-ira (wh.13)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Taumata 3-4:</i></p> <ul style="list-style-type: none"> <li>• Tirohia te Pepa (wh.11)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuarua, Taumata 3-4:</i></p> <ul style="list-style-type: none"> <li>• He Tūhonohono Hautau (wh.15)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuatoru, Taumata 3-4:</i></p> <ul style="list-style-type: none"> <li>• Ai e Hika e! (wh.24)</li> </ul> <p><i>He Tau Anō Te Tau: Ngā Meka Matua, Taumata 3-4:</i></p> <ul style="list-style-type: none"> <li>• Te Whiriwhiri Tau ā-Ira (wh.21)</li> <li>• Te Toa Tau ā-Ira (wh.24)</li> </ul>	
<p>Ka mōhio ki ngā hautau ōrite mō ngā haurua, ngā hauroru, ngā hauwhā, ngā haurima me ngā hautekau.</p>	<p><i>TPT, Pukapuka 4:</i></p> <ul style="list-style-type: none"> <li>• He Nui Ake te Hauwhā i te Haurua! (wh.44)</li> <li>• Ngā Hautanga ki te Rārangi Tau (wh.46)</li> <li>• Hautanga Ōrite (wh.51)</li> <li>• Hautau Ōrite Huhua (wh.73)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuatahi, Taumata 3:</i></p> <ul style="list-style-type: none"> <li>• Ka Hau ngā Hautau (wh.9)</li> <li>• He Hautau Anō (wh.10)</li> <li>• Kei Ngoungou Haere (wh.11)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuatoru, Taumata 3:</i></p> <ul style="list-style-type: none"> <li>• He Rerekē, engari he Rite (wh.22)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuarua, Taumata 3-4:</i></p> <ul style="list-style-type: none"> <li>• He Hautau Hanawiti (wh.11)</li> </ul>	
<p>Ka whakaawhiwhi tau ā-ira (tae atu kia rua ngā mati ā-ira), ki te tauoti, ki te hautekau rānei e pātata ana.</p>	<p><i>TPT, Pukapuka 4:</i></p> <ul style="list-style-type: none"> <li>• Whakaawhiwhinga Whaitake (wh.70)</li> <li>• Whakaawhiwhia ki te Tekau (wh.94)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuatoru, Taumata 3-4:</i></p> <ul style="list-style-type: none"> <li>• Hoes, Hoes Rā (wh.6)</li> </ul>	
Ngā Rautaki	Te Panuku o ngā Rapanga	Ngā Rauemi e Hāngai ana
<p>Ka wāwāhi hautanga hei whiriwhiri hautau ōrite. Hei tauira: <math>\frac{3}{4} = \frac{15}{20}</math>, mā te wāwāhi i ia hauwhā kia 5 ngā wehenga ōrite.</p>	<p>Wāwāhia te <math>\frac{1}{3}</math> kia 4 ngā wehenga ōrite. He aha te hautau ōrite? (<math>\frac{1}{3} = \frac{4}{12}</math>)</p> <p>Wāwāhia te <math>\frac{1}{5}</math> kia 3 ngā wehenga ōrite. He aha te hautau ōrite? (<math>\frac{1}{5} = \frac{3}{15}</math>)</p> <p>Wāwāhia te <math>\frac{1}{6}</math> kia 2 ngā wehenga ōrite. He aha te hautau ōrite? (<math>\frac{1}{6} = \frac{2}{12}</math>)</p> <p>Wāwāhia te <math>\frac{1}{2}</math> kia 6 ngā wehenga ōrite. He aha te hautau ōrite? (<math>\frac{1}{2} = \frac{6}{12}</math>)</p>	<p><i>TPT, Pukapuka 7:</i></p> <ul style="list-style-type: none"> <li>• Ngā kōrero whakataki mō te Kaupae 6-7 (wh.57)</li> </ul> <p><i>TPT, Pukapuka 8:</i></p> <ul style="list-style-type: none"> <li>• Te Hautau Ōrite (wh.46)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Taumata 3:</i></p> <ul style="list-style-type: none"> <li>• Ka Hau ngā Hautau (wh.9)</li> <li>• He Hautau Anō (wh.10)</li> <li>• Kia Tere te Piki! (wh.14)</li> </ul>

	$\frac{1}{4} = \frac{\square}{16}$ $\frac{1}{6} = \frac{\square}{36}$ $\frac{3}{4} = \frac{\square}{28}$ $\frac{3}{5} = \frac{9}{\square}$ $\frac{7}{8} = \frac{28}{\square}$ $\frac{9}{10} = \frac{\square}{1,000}$	<p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuatoru, Taumata 3:</i></p> <ul style="list-style-type: none"> <li>• He Rerekē, Engari he Rite (wh.22)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Taumata 3-4:</i></p> <ul style="list-style-type: none"> <li>• Te Moana Nui a Tīpa (wh.3)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuarua, Taumata 3-4:</i></p> <ul style="list-style-type: none"> <li>• He Hautau Hanawiti (wh.11)</li> </ul>
<p>Ka whakamahia ngā hautau māmā e mōhiotia ana me ngā hautau ōrite, hei raupapa hautau. Hei tauira:</p> <p><math>\frac{2}{5} &lt; \frac{7}{16}</math> nā te mea <math>\frac{2}{5} = \frac{4}{10}</math>, ā, <math>\frac{1}{10}</math> te itinga ake o tērā i te <math>\frac{1}{2}</math>, engari <math>\frac{1}{16}</math> te itinga ake o te <math>\frac{7}{16}</math> i te <math>\frac{1}{2}</math>.</p>	<p>Ko tēhea te hautau rahi ake? He pēhea nei te rahinga ake?</p> <p>te <math>\frac{3}{4}</math>, te <math>\frac{2}{3}</math> rānei</p> <p>te <math>\frac{4}{5}</math>, te <math>\frac{3}{4}</math> rānei</p> <p>te <math>\frac{5}{8}</math>, te <math>\frac{2}{3}</math> rānei</p> <p>te <math>\frac{5}{8}</math>, te <math>\frac{7}{12}</math> rānei</p> <p>te <math>\frac{3}{8}</math>, te <math>\frac{4}{10}</math> rānei</p> <p>te <math>\frac{5}{6}</math>, te <math>\frac{3}{4}</math> rānei</p> <p>te <math>\frac{17}{12}</math>, te <math>\frac{5}{4}</math> rānei</p> <p>te <math>\frac{7}{3}</math>, te <math>\frac{11}{5}</math> rānei</p>	<p><i>TPT Pukapuka 8:</i></p> <ul style="list-style-type: none"> <li>• Te Whakatau Tata i ngā Hautau (wh.44)</li> <li>• Te Hautau Ōrite (wh.46)</li> </ul>
<p>Ka whakamahia ngā meka whakarea, whakawehe hoki, hei whiriwhiri i te hautanga o tētahi tauoti. Hei tauira:</p> <p><math>\frac{2}{3}</math> o te 36 = <math>2 \times \frac{1}{3}</math> o te 36  = <math>2 \times 36 \div 3</math>  = <math>2 \times 12</math>  = 24</p>	<p><math>\frac{3}{5}</math> o te 60 = <math>\square</math></p> <p><math>\frac{5}{8}</math> o te 64 = <math>\square</math></p> <p><math>\frac{5}{6}</math> o te 42 = <math>\square</math></p> <p><math>\frac{4}{7}</math> o te 56 = <math>\square</math></p> <p><math>\frac{3}{5}</math> o te <math>\square</math> = 27</p> <p><math>\frac{4}{9}</math> o te <math>\square</math> = 16</p> <p><math>\frac{7}{10}</math> o te <math>\square</math> = 84</p> <p><math>\frac{\square}{8}</math> o te 72 = 27</p> <p><math>\frac{\square}{12}</math> o te 48 = 28</p>	<p><i>TPT, Pukapuka 8:</i></p> <ul style="list-style-type: none"> <li>• Te Whakarea i te Hautau ki te Tauoti (wh.65)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuarua, Taumata 3:</i></p> <ul style="list-style-type: none"> <li>• Ka Huri te Ihu ki te Wā Kāinga (wh.24)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuatoru, Taumata 3:</i></p> <ul style="list-style-type: none"> <li>• He Māpere Miharo (wh.21)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuarua, Taumata 3-4:</i></p> <ul style="list-style-type: none"> <li>• Te Waihanga Hautau (wh.12)</li> <li>• Tēnā Inea! (wh.13)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuatoru, Taumata 3-4:</i></p> <ul style="list-style-type: none"> <li>• He Hautau Hākinakina (wh.16)</li> </ul>
<p>Ka whakaoti rapanga e whai wāhi mai ana te whakareatanga hautau ki te hautau. Hei tauira:</p> <p><math>\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}</math></p>	<p><math>\frac{1}{2} \times \frac{3}{4} = \square</math></p> <p><math>\frac{2}{3} \times \frac{3}{5} = \square</math></p> <p><math>\frac{3}{4} \times \frac{2}{5} = \square</math></p> <p><math>\frac{5}{8} \times \frac{1}{2} = \square</math></p> <p><math>\frac{2}{3} \times \frac{1}{5} = \square</math></p> <p><math>\frac{5}{6} \times \frac{2}{3} = \square</math></p>	<p><i>TPT, Pukapuka 8:</i></p> <ul style="list-style-type: none"> <li>• Te Whakarea i te Hautau ki te Hautau (wh.67)</li> <li>• He Whakanui, he Whakaiti rānei te Whakarea (wh.69)</li> </ul>

<p>Ka whakaoti whakawehenga hei huri i ngā hautau nui ake i te tahi hei tau hanumi.</p> <p>Ka whakanoho hautau nui ake i te tahi ki te rārangi tau.</p>	<p>Hurīhia ēnei hautau hei tau hanumi, ka whakaatu ai ki tētahi rārangi tau:</p> $\frac{27}{4} \quad \frac{43}{5} \quad \frac{23}{3} \quad \frac{65}{9} \quad \frac{76}{8} \quad \frac{100}{3}$	<p><i>TPT, Pukapuka 8:</i></p> <ul style="list-style-type: none"> <li>• He Hautau Nui Ake i te Kotahi (wh.49)</li> </ul>
<p>Ka whakaoti rapanga whakawehe e whai wāhi mai ana te otinga hautanga. Hei tauira: <math>8 \div 3 = 2\frac{2}{3}</math></p> <p>Ka tūhonoa te whakawehenga ki te taurunga me te tauraro o tētahi hautau. Hei tauira: <math>4 \div 5 = \frac{4}{5}</math></p>	$5 \div 4 = \square$ $8 \div 3 = \square$ $12 \div 5 = \square$ $5 \div 6 = \square$ $3 \div 7 = \square$ $13 \div 8 = \square$ $1 \div \square = \frac{1}{7}$ $7 \div \square = \frac{21}{3}$ $2 \div \square = \frac{2}{5}$ $17 \div \square = 1\frac{7}{10}$ $\square \div 3 = 3\frac{1}{3}$ $\square \div 5 = 1\frac{4}{5}$ $\square \div 6 = 1\frac{5}{6}$ $\square \div 9 = 4\frac{8}{9}$	<p><i>He Tau Anō Te Tau: Te Tau, Taumata 3:</i></p> <ul style="list-style-type: none"> <li>• Te Hautau hei Tau ā-Ira (wh.13)</li> </ul>
<p>Ka whakaotia ngā huringa hautau <math>\leftrightarrow</math> tau ā-ira <math>\leftrightarrow</math> ōrau.</p>	$3 \div 2 = 1\frac{1}{2} = 1.5 = 150\%$ $5 \div 4 = 1\frac{1}{4} = 1.25 = 125\%$ $3 \div 8 = \frac{3}{8} = 0.375 = 37.5\%$ $2 \div 3 = \frac{2}{3} = 0.6 = 66.6\%$ $\frac{7}{5} = 1\frac{2}{5} = 1.4 = 140\%$ $\frac{5}{7} = \square$	<p><i>TPT, Pukapuka 7:</i></p> <ul style="list-style-type: none"> <li>• Te Papa Hautanga ā-Ira (wh.67)</li> </ul> <p><i>He Tau Anō Te Tau: Ngā Meka Matua, Taumata 3-4:</i></p> <ul style="list-style-type: none"> <li>• Te Whiriwhiri Tau ā-Ira (wh.21)</li> <li>• Te Toa Tau ā-Ira (wh.24)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Taumata 3-4:</i></p> <ul style="list-style-type: none"> <li>• Ngā Ākinga a te Tai (wh.8)</li> <li>• Huripokia (wh.10)</li> <li>• Tirohia te Pepa (wh.11)</li> </ul>
<p>Ka whakamahia ngā ōrau māmā e mōhiotia ana hei whakatau tata, hei whiriwhiri i te ōrau o tētahi tauoti. Hei tauira:</p> $65\% \text{ o te } \$80 = (50\% \text{ o te } \$80) + (10\% \text{ o te } \$80) + (5\% \text{ o te } \$80)$ $= \$40 + \$8 + \$4$ $= \$52$	$10\% \text{ o te } 48 \leftrightarrow 30\% \text{ o te } 48$ $50\% \text{ o te } 64 \leftrightarrow 25\% \text{ o te } 64$ $10\% \text{ o te } 28 \leftrightarrow 5\% \text{ o te } 28$ $50\% \text{ o te } 56, 10\% \text{ o te } 56 \leftrightarrow 60\% \text{ o te } 56$ $10\% \text{ o te } 35, 5\% \text{ o te } 35 \leftrightarrow 15\% \text{ o te } 35$ $50\% \text{ o te } 140, 10\% \text{ o te } 140, 5\% \text{ o te } 140 \leftrightarrow 65\% \text{ o te } 140$	<p><i>TPT Pukapuka 7:</i></p> <ul style="list-style-type: none"> <li>• Ringa Tītere (wh.82)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuarua, Taumata 3:</i></p> <ul style="list-style-type: none"> <li>• Te Toa Pukapuka Utupai (wh.18)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuatoru, Taumata 3:</i></p> <ul style="list-style-type: none"> <li>• Whakaheke Utu, Whakaheke Ngaru (wh.24)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Taumata 3-4:</i></p> <ul style="list-style-type: none"> <li>• Te Ringa Tītere (wh.12)</li> </ul>

		<p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuarua, Taumata 3-4:</i></p> <ul style="list-style-type: none"> <li>• Ka Piki Tonu te Utu (wh.16)</li> </ul>
<p>Ka whakaoti tāpiritanga hautau, tangohanga hautau hoki mēnā e whai pānga ana ngā tauraro. Hei taurira:</p> $\frac{3}{4} + \frac{5}{12} = \frac{14}{12} = 1\frac{2}{12} = 1\frac{1}{6}$	$\frac{3}{4} + \frac{3}{4} = \frac{6}{4} = 1\frac{1}{2}$ $\frac{2}{3} + \frac{4}{3} = \frac{6}{3} = 2$ $\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$ $\frac{3}{4} + \frac{5}{8} = \frac{11}{8} = 1\frac{3}{8}$ $\frac{9}{10} - \frac{3}{5} = \frac{3}{10}$ $\frac{2}{3} + \frac{5}{6} = \frac{9}{6} = 1\frac{1}{2}$ $\frac{7}{8} - \frac{1}{2} = \frac{3}{8}$	<p><i>TPT Pukapuka 7:</i></p> <ul style="list-style-type: none"> <li>• Hautau Tāpiripiri, Hautau Tangotango (wh.111)</li> </ul> <p><i>TPT Pukapuka 8:</i></p> <ul style="list-style-type: none"> <li>• Te Whakatau Tata i ngā Hautau (wh.44)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuatoru, Taumata 3:</i></p> <ul style="list-style-type: none"> <li>• Te Whakaapaapa Haere (wh.20)</li> </ul>
<p>Ka whakaoti rapanga e whai wāhi mai ana te tāpiri me te tango hautau.</p>	$1.2 + 3.8 = 4$ $0.75 + 1.25 = 2$ $5 - 2.25 = 2.75$ $0.5 + 1.25 = 1.75$ $2.5 - 1.75 = 0.75$ $0.375 + 1.625 = 2$ $3 - 0.001 = 2.999$ $2.673 + 1.327 = 4$ $5.2 - 1.68 = 3.52$	<p><i>TPT Pukapuka 5:</i></p> <ul style="list-style-type: none"> <li>• Te Tāpiri Hautau ā-Ira (1) (wh.158)</li> <li>• Te Tango Hautau ā-Ira (1) (wh.160)</li> </ul> <p><i>TPT Pukapuka 7:</i></p> <ul style="list-style-type: none"> <li>• He Paipa ā-Ira (wh.61)</li> <li>• Tāpiritanga Tau ā-Ira Māmā (wh.74)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuarua, Taumata 3:</i></p> <ul style="list-style-type: none"> <li>• Te Tapeke hei Whakamaunga Atu (wh.16)</li> <li>• Te Tāitanga Tau ā-Ira (wh.17)</li> </ul> <p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuatoru, Taumata 3-4:</i></p> <ul style="list-style-type: none"> <li>• Te Eke Ngaru (wh.2)</li> </ul>
<p>Ka whakaoti rapanga whakawehe e whai wāhi mai ana he hautau, e whai pānga ana ngā tauraro. Hei taurira:</p> <p>E hia ngā hauono kei roto i te <math>1\frac{1}{2}</math>?</p> $1\frac{1}{2} \div \frac{1}{6} = \frac{9}{6} \div \frac{1}{6} = 9$	<p>E hia ngā:</p> $\frac{1}{4} \text{ kei roto i te } \frac{3}{2} \left( \frac{3}{2} \div \frac{1}{4} = \frac{6}{4} \div \frac{1}{4} = 6 \right)$ $\frac{1}{10} \text{ kei roto i te } \frac{4}{5} \left( \frac{4}{5} \div \frac{1}{10} = \frac{8}{10} \div \frac{1}{10} = 8 \right)$ $\frac{1}{6} \text{ kei roto i te } \frac{5}{3} \left( \frac{5}{3} \div \frac{1}{6} = \frac{10}{6} \div \frac{1}{6} = 10 \right)$ $\frac{3}{4} \text{ kei roto i te } 4\frac{1}{2} \left( \frac{9}{2} \div \frac{3}{4} = \frac{18}{4} \div \frac{3}{4} = 6 \right)$ $\frac{3}{8} \text{ kei roto i te } \frac{9}{4} \left( \frac{9}{4} \div \frac{3}{8} = \frac{18}{8} \div \frac{3}{8} = 6 \right)$ $\frac{5}{12} \text{ kei roto i te } \frac{10}{3} \left( \frac{10}{3} \div \frac{5}{12} = \frac{40}{12} \div \frac{5}{12} = 8 \right)$	<p><i>TPT, Pukapuka 8:</i></p> <ul style="list-style-type: none"> <li>• Te Whakawehe Hautau (wh.62)</li> </ul>
<p>Ka rauapapahia ngā tau ā-ira ki tētahi rārangi tau.</p>	<p>Tuhia he rārangi tau mai i te 0 ki te 5, ka whakaatu ai i ēnei:</p> <p>2.5, 1.25, 4.9, 3.75, 0.67</p> <p>Tuhia he rārangi tau mai i te 0 ki te 2, ka whakaatu ai i ēnei:</p> <p>0.2, 1.8, 0.66, 1.95, 1.125</p>	<p><i>TPT, Pukapuka 8:</i></p> <ul style="list-style-type: none"> <li>• Te Āwhata i te Rārangi Tau (wh.54)</li> <li>• Te Whakaawhiwhi Tauoti (wh.57)</li> <li>• He Hautau, he Tau ā-Ira Pōraruru (wh.59)</li> </ul>

<p>Ka whakaoti rapanga ōwehenga māmā, mā te whakareatanga. Hei tauira: He ōrite te utu i te \$7 mō te <math>\frac{1}{2}</math> kg me te utu i te \$21 mō te <math>1\frac{1}{2}</math> kg.</p>	<p>Te hoko waiārani: E \$4 mō te 1 rita = \$32 mō te 8 rita E \$7 mō te 2 rita = \$35 mō te 10 rita E \$3 mō te <math>\frac{1}{2}</math> rita = \$18 mō te 3 rita E \$9 mō te <math>1\frac{1}{2}</math> rita = \$36 mō te 6 rita E \$5 mō te <math>\frac{3}{4}</math> rita = \$40 mō te 6 rita</p>	<p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuatoru, Taumata 3:</i> • Ngā Tau Rererua (wh.2)</p> <p><i>He Tau Anō Te Tau: Te Tau, Taumata 3-4:</i> • He Rā Anō, he Rapanga Anō (wh.21)</p> <p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuarua, Taumata 3-4:</i> • He Piko, he Taniwha! (wh.19)</p> <p><i>He Tau Anō Te Tau: Te Tau, Pukapuka Tuatoru, Taumata 3-4:</i> • He Tākiri Hinengaro (wh.4) • Kakapa Ana te Manawa (wh.11)</p>
<p>Ka whakamahia te whakarea me te whakawehe hei whiriwhiri ōwehenga ōrite, me te whakaatu anō hei hautau ōrite. Hei tauira: 16:8 = 8:4 = 4:2 = 2:1, me te rite ki: <math>\frac{16}{24} = \frac{8}{12} = \frac{4}{6} = \frac{2}{3}</math></p>	<p>10:15 = 2:3 <math>\leftrightarrow \frac{10}{25} = \frac{2}{5}</math> 20:10 = 10:5 = 2:1 <math>\leftrightarrow \frac{20}{30} = \frac{10}{15} = \frac{2}{3}</math> 12:36 = 6:18 = 3:9 = 1:3 <math>\leftrightarrow \frac{12}{48} = \frac{6}{24} = \frac{3}{12} = \frac{1}{4}</math> 18:27 = 6:9 = 2:3 <math>\leftrightarrow \frac{18}{45} = \frac{6}{15} = \frac{2}{5}</math> 45:15 = 9:3 = 3:1 <math>\leftrightarrow \frac{45}{60} = \frac{9}{12} = \frac{3}{4}</math> 16:48 = 8:24 = 4:12 = 2:6 = 1:3 <math>\leftrightarrow \frac{16}{64} = \frac{8}{32} = \frac{4}{16} = \frac{2}{8} = \frac{1}{4}</math></p>	<p><i>TPT, Pukapuka 7:</i> • Ranunga Peita (wh.87)</p> <p><i>He Tau Anō Te Tau: Te Tau, Taumata 3-4:</i> • Nā Kukume, ko Roroa (wh.4) • He Kākano Whaikano (wh.9)</p>