

## Kaupae Rautaki 8: Te Wāwāhi Tau Pānga Riterite

E whai ake nei ētahi pātai āpiti-hanga hei aromatawai mēnā kua eke te ākongā ki te Kaupae Rautaki 8. Kei te taha matau he tauira rautaki me te whakamārama.

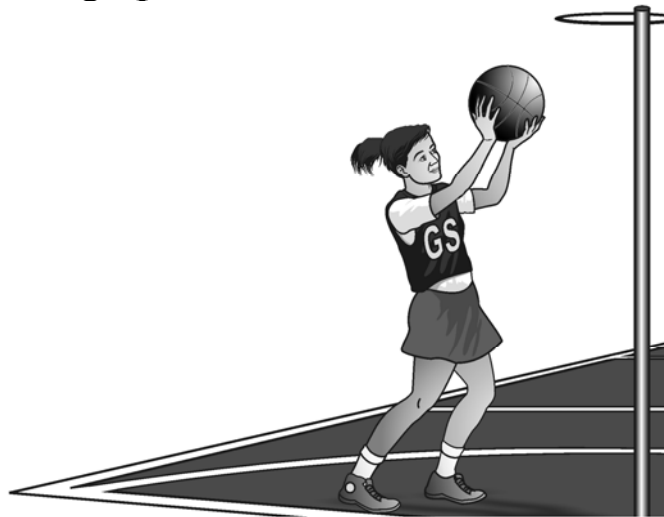
Pātai	Tauira Rautaki
1. 108 ngā porotiti a Hineora, ko te 5:1 te ōwehenga o ngā porotiti whero ki ngā porotiti pango. E hia ngā porotiti whero?	<ul style="list-style-type: none"> <li>• Ko te 5:1 te ōwehenga, nō reira e 5 ngā porotiti whero o roto i te 6 (5/6)</li> <li>• Whiriwhiria te 1/6 o te 108:               <ul style="list-style-type: none"> <li>○ <math>54 \div 6 = 9</math>, nō reira <math>108 \div 6 = 18</math></li> </ul> </li> <li>• Whiriwhiria te 5/6 o te 108:               <ul style="list-style-type: none"> <li>○ <math>18 \times 5 = 90</math></li> </ul> </li> </ul>
2. Nā Waiora te kotahi hauwhā (1/4) o ngā piro o tana tīma poitarawhiti. Kotahi hauroru (1/3) nā Kahurangi. Nā Mereana te toenga o ngā piro. Mēnā e 72 katoa ngā piro a tēnei tīma, e hia ngā piro a Mereana?	<ul style="list-style-type: none"> <li>• Whiriwhiria te hautau o ngā piro a Mereana:               <ul style="list-style-type: none"> <li>○ <math>1 - (1/4 + 1/3) = 12/12 - 7/12 = 5/12</math></li> </ul> </li> <li>• Whiriwhiria te 5/12 o te 72:               <ul style="list-style-type: none"> <li>○ <math>1/12</math> o te 72 = 6</li> <li>○ <math>5/12</math> o te 72 = 30</li> </ul> </li> </ul>
3. 0.3 mita te roa o te papanga hei tuitui i tētahi hāte. Mēnā e 5.4 mita te roa o te papanga, e hia ngā hāte ka taea te tuitui?	<ul style="list-style-type: none"> <li>• Wehea te 5.4 ki te 0.3:               <ul style="list-style-type: none"> <li>○ <math>5.4 \div 0.3 = \square</math></li> <li>○ Huri kōrarotia: <math>0.3 \times \square = 5.4</math></li> <li>○ <math>0.6 \times 9 = 5.4</math> (tau rearua)</li> <li>○ nō reira <math>0.3 \times 18 = 5.4</math></li> </ul> </li> </ul>
4. E \$240 kei te pūtea pēke a Apirana. Ka pau i a ia te 65% o tana pūtea ki te utu i tana haere ki te whakataetae kapa haka. E hia te toenga o tana pūtea?	<ul style="list-style-type: none"> <li>• Whiriwhiria te 65% o te 240:               <ul style="list-style-type: none"> <li>○ 50% o te 240 = 120</li> <li>○ 10% o te 240 = 24</li> <li>○ 5% o te 240 = 12</li> <li>○ nō reira 65% o te 240 = <math>120 + 24 + 12 = 156</math></li> </ul> </li> </ul>
5. 12 ngā pātara wai māori i hokona e Matua Hemi, e \$8 te utu. E hia ngā pātara ka taea te hoko mō te \$28?	<ul style="list-style-type: none"> <li>• Whiriwhiria te pānga o te \$8 me te \$28:               <ul style="list-style-type: none"> <li>○ <math>8 \times 3 \frac{1}{2} = 28</math></li> </ul> </li> <li>• Whakareatia te 12 ki te <math>3 \frac{1}{2}</math>:               <ul style="list-style-type: none"> <li>○ <math>12 \times 3 \frac{1}{2} = 36 + 6 = 42</math></li> </ul> </li> </ul>

108 ngā porotiti a Hineora, ko te 5:1 te ōwehenga o ngā porotiti whero ki ngā porotiti pango. E hia ngā porotiti whero?



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Nā Waiora te kotahi hauwhā ( $\frac{1}{4}$ ) o ngā piro o tana tīma poitarawhiti. Kotahi hautoru ( $\frac{1}{3}$ ) nā Kahurangi. Nā Mereana te toenga o ngā piro. Mēnā e 72 katoa ngā piro a tēnei tīma, e hia ngā piro a Mereana?



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0.3 mita te roa o te papanga hei tuitui i tētahi hāte. Mēnā e 5.4 mita te roa o te papanga, e hia ngā hāte ka taea te tuitui?



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E \$240 kei te pūtea pēke a Apirana. Ka pau i a ia te 65% o tana pūtea ki te utu i tana haere ki te whakataetae kapa haka. E hia te toenga o tana pūtea?



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12 ngā pātara wai māori i hokona e Matua Hemi, e \$8 te utu. E hia ngā pātara ka taea te hoko mō te \$28?



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