

Ihumanea Pāngarau
Te Whakarea Tauwehe
MĀ TE KAI AKO

Kia Mōhio te Ākongā ki:

- ngā meka whakareatanga
- te kimi tauwehe o tētahi tau

Kupu Matua:

tauwehe, whakarea, otinga

Whāinga Paetae:

Taumata 4, Te Tau me te Taurangi

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

Hei Mahi:

He kēmu tēnei hei whakapakari i te mōhio ki ngā tauwehe o tētahi tau. Kia rua ngā kaitākaro.

Ngā Rauemi

- he papa tākaro (kei te whārangi o muri mai hei tārua ina hiahiatia)
- he porotiti, kia rerekē te tae mā ia kaitākaro
- kia rua ngā kini pepa

Ngā tohutohu

1. Ka whai tētahi kaitākaro i tētahi.
2. Ka kōwhiria e te kaitākaro tuatahi tētahi o ngā tauwehe kei raro iho o te papa tākaro, ka whakatakotoria he kini pepa ki runga.
3. Ka kōwhiria e te kaitākaro tuarua tētahi atu o ngā tauwehe kei raro iho o te papa tākaro, ka whakatakotoria he kini pepa ki runga. Kua rua ināianeī ngā tauwehe e tohua ana. Kātahi te kaitākaro tuarua, ka whakarea i ngā tauwehe e rua, ā, ka whakatakoto i tētahi o ana porotiti ki runga i te otinga o te whakareatanga i te papa tākaro.
4. Ka huri ki te kaitākaro tuatahi ināianeī. Ko tāna, he nuku i tētahi o ngā kini pepa ki tētahi atu tauwehe. E rua tonu ngā tauwehe e tohua ana. Ka whakareatia aua tauwehe e rua, ā, ka whakatakotoria tētahi o āna porotiti ki runga i te otinga o te whakareatanga i te papa tākaro.
5. Ka pēnei te hohoko haere o te kēmu, kia noho rārangi mai ai ētahi porotiti e whā o tētahi kaitākaro. Ko ia te toa. E pai ana te rārangi huapae, te rārangi poutū, te rārangi tītaha (hauroki) rānei.

Hei taurira o ētahi nekeneke e rima o tēnei kēmu:

Te Mahi	Te Papa Tākaro																																				
<p>Ka tohua e Tama te tauwehe 8 ki tētahi kini pepa.</p>	<table border="1" data-bbox="727 331 946 554"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td><td>10</td><td>12</td><td>14</td></tr> <tr><td>15</td><td>16</td><td>18</td><td>20</td><td>21</td><td>24</td></tr> <tr><td>25</td><td>27</td><td>28</td><td>30</td><td>32</td><td>35</td></tr> <tr><td>36</td><td>40</td><td>42</td><td>45</td><td>48</td><td>49</td></tr> <tr><td>54</td><td>56</td><td>63</td><td>64</td><td>72</td><td>81</td></tr> </table> <p data-bbox="727 562 946 611">Ngā Tauwehe: 1 2 3 4 5 6 7 8 9</p>	1	2	3	4	5	6	7	8	9	10	12	14	15	16	18	20	21	24	25	27	28	30	32	35	36	40	42	45	48	49	54	56	63	64	72	81
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<p>Ka nukua e Tama tētahi o ngā kini pepa mai i te 8 ki te 2, me te whakatakoto i tētahi o āna porotiti ki runga i te 16, nā te mea $2 \times 6 = 12$.</p>	<table border="1" data-bbox="727 1029 946 1251"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td><td>10</td><td>12</td><td>14</td></tr> <tr><td>15</td><td>16</td><td>18</td><td>20</td><td>21</td><td>24</td></tr> <tr><td>25</td><td>27</td><td>28</td><td>30</td><td>32</td><td>35</td></tr> <tr><td>36</td><td>40</td><td>42</td><td>45</td><td>48</td><td>49</td></tr> <tr><td>54</td><td>56</td><td>63</td><td>64</td><td>72</td><td>81</td></tr> </table> <p data-bbox="727 1260 946 1308">Ngā Tauwehe: 1 2 3 4 5 6 7 8 9</p>	1	2	3	4	5	6	7	8	9	10	12	14	15	16	18	20	21	24	25	27	28	30	32	35	36	40	42	45	48	49	54	56	63	64	72	81
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<p>Ka nukua e Hine tētahi o ngā kini pepa mai i te 2 ki te 5, me te whakatakoto i tētahi o āna porotiti ki runga i te 30, nā te mea $5 \times 6 = 30$.</p>	<table border="1" data-bbox="727 1413 946 1635"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td><td>10</td><td>12</td><td>14</td></tr> <tr><td>15</td><td>16</td><td>18</td><td>20</td><td>21</td><td>24</td></tr> <tr><td>25</td><td>27</td><td>28</td><td>30</td><td>32</td><td>35</td></tr> <tr><td>36</td><td>40</td><td>42</td><td>45</td><td>48</td><td>49</td></tr> <tr><td>54</td><td>56</td><td>63</td><td>64</td><td>72</td><td>81</td></tr> </table> <p data-bbox="727 1644 946 1692">Ngā Tauwehe: 1 2 3 4 5 6 7 8 9</p>	1	2	3	4	5	6	7	8	9	10	12	14	15	16	18	20	21	24	25	27	28	30	32	35	36	40	42	45	48	49	54	56	63	64	72	81
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Hei Whakaaroaro mā te Kaiako

Tonoa ngā ākonga kia āta whakaaro ki te rautaki e toa ai rātou i tēnei kēmu.

Ākene pea, ka tukuna ētahi tauira nekeneke hei wānanga mā ngā ākongā. Hei tauira:
E pēnei ana te papa tākaro. Kei a Kahurangi te nekeneke.

1	2	3	4	5	6
7	8	9	10	12	14
15	16	18	20	21	24
25	27	28	30	32	35
36	40	42	45	48	49
54	56	63	64	72	81

Ngā Tauwehe:

1 2 3 4 5 6 7 8 9



1. He aha ngā nekeneke e taea ana e Kahurangi?

Te neke i tētahi o ngā kini pepa	Te whakatakoto i te porotiti
$5 \rightarrow 1$	$6 \times 1 = 6$
$5 \rightarrow 2$	$6 \times 2 = 12$
$5 \rightarrow 3$	$6 \times 3 = 18$ He nekeneke koretake noa iho, ina kua uhia kētia te 18.
$5 \rightarrow 4$	$6 \times 4 = 24$
...	
$6 \rightarrow 1$	ki te 5 ($5 \times 1 = 5$)
...	

2. He aha ngā nekeneke e hua mai ai te rārangitanga o ētahi porotiti kahurangi e 3?
3. He aha te nekeneke hei aukati i a Whero?
4. Ko tēhea te nekeneke whaihua rawa atu mō Kahurangi? He aha ai?

E rua ngā papa tākaro kei ngā whārangi e rua e whai mai ana. Ko tētahi, ko ngā tauoti, ko tētahi ko ngā tau tōpū.

1	2	3	4	5	6
7	8	9	10	12	14
15	16	18	20	21	24
25	27	28	30	32	35
36	40	42	45	48	49
54	56	63	64	72	81

Ngā Tauwehe:

1 2 3 4 5 6 7 8 9

-36	-30	-25	-24	-20	-18
-16	-15	-12	-10	-9	-8
-6	-5	-4	-3	-2	-1
1	2	3	4	5	86
8	9	10	12	15	16
18	20	24	25	30	36

Ngā Tauwehe:

1 2 3 4 5 6 7 8 9