

**Ihumanea Pāngarau**  
**Te Tauwehe**  
**MĀ TE KAIKO**

**Kia Mōhio te Ākonga ki:**

- ngā meka whakareatanga
- te kimi tauwehe o tētahi tau

**Kupu Matua:**

tauwehe

**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 pene whai kano, kia rerekē te tae mā ia kaitākaro

**Ngā tohutohu**

1. Ka whai tētahi kaitākaro i tētahi.
2. Ka kōwhiria e te kaitākaro tuatahi tētahi o ngā tau, ka porowhitatia.
3. Ko tā te kaitākaro tuarua, he porowhita i ngā tauwehe katoa o taua tau e whakaaturia ana ki te papa tākaro (kāore ia e porowhita i te tau, nā te mea kua oti kē tērā te porowhita e te kaitākaro tuatahi).
4. Ināianei ka kōwhiria tētahi tau e te kaitākaro tuarua, me te porowhita anō i taua tau. Ka porowhitatia e te kaitākaro tuarua ngā tauwehe katoa o taua tau.
5. Ka pēnei te hohoko haere o te kēmu, kia oti rā anō ngā tauwehe o ngā tau te porowhita.
6. Ka tāpiria ngā tau i porowhitatia e tēnā kaitākaro, e tēnā. Ko te kaitākaro he rahi rawa te tapeke o āna tau, ko ia te toa.
7. Mēnā ka porowhitatia tētahi tau, ā, kua oti kē ngā tauwehe katoa o taua tau te porowhita, kāore taua porowhita e tatauria hei whakawhiwhinga mā taua kaitākaro.

Hei tauria o ētahi nekeneke e rima o tēnei kēmu:

Te Mahi	Te Papa Tākaro	Ngā Whiwiringa																																										
Ka porowhitatia e Tama te 24. Ko tā Hine, he porowhita i ngā tauwehe o te 24, arā, te 1, te 2, te 3, te 4, te 6, te 8 me te 12.	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr> <tr><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	<table border="1"> <tr><td>Tama</td><td>Hine</td></tr> <tr><td>24</td><td>36</td></tr> </table>	Tama	Hine	24	36								
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Ka porowhitatia e Tama te 27. Ko tā Hine, he porowhita i ngā tauwehe o te 27 kāore anō kia porowhitatia, arā, te 9.	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr> <tr><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	<table border="1"> <tr><td>Tama</td><td>Hine</td></tr> <tr><td>24</td><td>36</td></tr> <tr><td>21</td><td>38</td></tr> <tr><td>27</td><td>9</td></tr> </table>	Tama	Hine	24	36	21	38	27	9				
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Ka porowhitatia e Hine te 30. Ko tā Tama, he porowhita i ngā tauwehe o te 30 kāore anō kia porowhitatia, arā, te 5, te 10 me te 15.	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr> <tr><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	<table border="1"> <tr><td>Tama</td><td>Hine</td></tr> <tr><td>24</td><td>36</td></tr> <tr><td>21</td><td>38</td></tr> <tr><td>27</td><td>9</td></tr> <tr><td>30</td><td>30</td></tr> </table>	Tama	Hine	24	36	21	38	27	9	30	30		
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### Hei Whakaaroaro mā te Kaiako

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

Ākene pea, ka tuhia ki tētahi tūtohi, ngā kōwhiringa e taea ana e te kaitākaro tuatahi, me ngā hua ka puta i tēnā kōwhiringa i tēnā. Hei tauria:

Te kōwhiringa tuatahi	Ngā tauwehe hei porowhita	Te whiwiringa a te kaitākaro	Te whiwiringa a taku hoariri
1	karekau	0	0
2	1	2	1
3	1	3	1
4	1, 2	4	3
5	1	5	1
6	1, 2, 3	6	6
...			

Whakawhitiwhiti kōrero mō te tauira e kitea mai ana i te tūtohi.

Ko tēhea te kōwhiringa tuatahi pai rawa atu? He aha ai?

(Ko te 29 nā te mea, he tau toitū, ko te 1 noa iho te tauwehe hei porowhita mā te hoariri, nō reira e 29 te whiwhinga a tēnei kaitākaro, 1 te whiwhinga a te hoariri.)

Ko tēhea te kōwhiringa tuatahi tino kore nei e whaihua? He aha ai?

(Ko te 24, nā te mea he maha ngā tauwehe – te 1, 2, 3, 4, 6, 8, 12, ā, ko te 36 te tapeke. Nō reira he rahi kē atu te whiwhinga a te hoariri (te 36), i te whiwhinga a te kaitākaro (te 24).