

Te Whakarea

RAUTAKI PĀNGA RITERITE

4

5

6

7

8

E ako ana ahau i ngā rautaki 'pānga riterite' hei whakamāmā rapanga whakarea.

Hei Mahi 1

Ngā tohutohu:

Whakamahia te rautaki 'rearua me te haurua' hei whakamāmā i ngā whakareatanga nei, ka whakaoti ai.

- | | | |
|---------------------|----------------------|------------------------|
| 1) 4×18 | (2) 5×16 | (3) 3×16 |
| 4) 3×24 | (5) 4×32 | (6) 5×48 |
| 7) 55×4 | (8) 28×5 | (9) 68×5 |
| 10) 20×34 | (11) 36×5 | (12) 26×4 |
| 13) 14×8 | (14) 18×40 | (15) 40×25 |
| 16) 16×25 | (17) 360×50 | (18) 24×50 |
| 19) 50×14 | (20) 25×16 | (21) 68×50 |
| 22) 28×500 | (23) 34×500 | (24) 286×5000 |

Hei Mahi 2

Ngā tohutohu:

E tino hāngai ana te rautaki 'rearua me te haurua' hei whakamāmā i ētahi o ngā whakareatanga nei, kāore e hāngai ana mō ētahi. Ko ēhea ngā whakareatanga e hāngai ana tēnei rautaki?

- | | | |
|------------------|--------------------|-------------------|
| 1) 2×24 | (2) 8×54 | (3) 7×21 |
| 4) 4×24 | (5) 5×64 | (6) 6×27 |
| 7) 8×25 | (8) 5×125 | (9) 9×42 |
- 10) Whakamāramatia he aha e hāngai ai te rautaki 'rearua me te haurua' hei whakamāmā i tētahi whakareatanga.

Hei Mahi 3

Ngā tohutohu:

Whakamahia te rautaki 'rearua me te haurua', te 'reatoru me te hautoru', tētahi atu rautaki rānei e pēnei ana, hei whakamāmā i ngā whakareatanga nei, ka whakaoti ai.

1) 3×27 (2) 40×15 (3) 36×3

4) 4×16 (5) 25×32 (6) 9×33

7) 250×48 (8) 20×98 (9) 12×33

10) Ko ēhea ngā whakareatanga i Hei Mahi 1, he māmā ake te whakaoti mā te whakamahi i tētahi rautaki pēnei i te 'reatoru me te hautoru'?

11) Mā te whakamahi rautaki pēnei i te 'rearua me te haurua', te 'reatoru me te hautoru' tētahi atu rautaki rānei e pēnei ana, tuhia ētahi atu whakareatanga e hāngai ana ki te $45 \times 18 = 810$.

Hei Mahi 4

Ngā tohutohu:

Whakamahia te rautaki 'rearua me te haurua', te 'reatoru me te hautoru', tētahi atu rautaki rānei e pēnei ana, ka tuhi ai i te tau e tika ana mō roto i te pouaka.

1) $15 \times 8 = 30 \times \square$ (2) $24 \times 12 = 48 \times \square$ (3) $36 \times 5 = \square \times 10$

4) $45 \times \square = 90 \times 9$ (5) $48 \times \square = 12 \times 12$ (6) $\square \times 16 = 8 \times 8$

7) $23 \times \square = 46 \times 10$ (8) $65 \times 12 = \square \times 6$ (9) $35 \times 14 = 70 \times \square$

Ko te rautaki 'rearua me te haurua' e hāngai ana ki ngā whakareatanga e whai ake nei. Whiriwhiria ngā tau e tika ana mō roto i te pouaka me te porowhita.

10) $16 \times \square = \circ \times 10$ (11) $\square \times 7 = 100 \times \circ$ (12) $25 \times \square = \circ \times 50$

Hei Mahi 5

Ngā tohutohu:

Whakamahia te rautaki 'rearua me te haurua', te 'reatoru me te hautoru', tētahi atu rautaki rānei e pēnei ana, hei whakamāmā i ēnei whakareatanga, ka whakaoti ai.

1) 0.5×16 (2) 0.1×160 (3) 0.25×16

4) 0.3×150 (5) 1.8×4 (6) 0.5×38

- 7) 4×1.6 (8) 6×3.5 (9) 3×2.4
- 10) 5×15.6 (11) 0.4×0.16 (12) 0.8×7.5
- 13) 3.2×20 (14) 30×0.29 (15) 200×0.32
- 16) Whakamāramatia he aha e whaihua ai te rautaki 'rearua me te haurua' hei whakaoti i ngā whakareatanga tau ā-ira.

Hei Mahi 6

Ngā touhtohu:

Tuhia te whārite e hāngai ana ki te rapanga. Whakamahia te rautaki 'rearua me te haurua', te 'reatoru me te hautoru', tētahi atu rautaki rānei e pēnei ana, hei whakamāmā i ngā whārite, ka whakaoti ai.

- 1) E \$5 te utu mō tētahi haerenga mā ia ākonga. Mēnā 18 ngā ākonga, e hia katoa te moni ka utua e rātou?
- 2) E 6 ngā tūranga pukapuka, e 24 ngā pukapuka ki ia tūranga. E hia katoa ngā pukapuka?
- 3) E 20 ngā haenga parāoa o ia rohi. Mēnā 120 ngā rohi, e hia katoa ngā haenga?
- 4) E 24 ngā iari poaka a Kaipāmu Horomona. Mēnā e 3 ngā poaka ki ia iari, e hia katoa ngā poaka?
- 5) 18 ngā kaupae i te ara piki mai i tētahi papa ki tētahi o te whare tororangi. Ka piki ake a Hiria mai i te papa whenua ki te papa 15. E hia katoa ngā kaupae i hīkoia e ia?
- 6) E 25 mita te roa o te hōpua kauhoe. Ka oti i a Neitana ngā roanga e 6. Pēhea nei te tawhiti o tana kauhoe?
- 7) 15 ngā tēpu i te whare kai, tokoono ngā tāngata ka taea ki ia tēpu. E hia katoa ngā nōhanga?
- 8) E 5 ngā pouaka tiakareti, 15 ngā tiakareti kei ia pouaka. E hia katoa ngā tiakareti?
- 9) Ka pau i a Paora te 2244 mL miraka te inu i ia rangi. E hia te rōrahi miraka ka pau i a ia i ngā rangi e 5?
- 10) E 22 ngā pihikete kei te pākete kotahi. E hia katoa ngā pihikete i ngā pākete 15?

Hei Mahi 7

Ngā tohutohu:

Āta whakaarohia ngā kōrero nei, ka whakawhitiwhiti kōrero ai me tō rōpū mahi me tō kaiako.

- 1) Ko te \square hei tohu i tētahi tau. He aha ētahi kīanga pāngarau hei whakaatu i te rearua o taua tau?
- 2) Ko te \square hei tohu i tētahi tau. He aha ētahi kīanga pāngarau hei whakaatu i te haurua o taua tau?
- 3) Ko te x hei tohu i tētahi tau. He aha ētahi kīanga pāngarau hei whakaatu i te rearua o taua tau?
- 4) Ko te x hei tohu i tētahi tau. He aha ētahi kīanga pāngarau hei whakaatu i te haurua o taua tau?

Hei Mahi 8

E whakamahia ana te rautaki ‘rearua me te haurua’ hei whakarea i te x me te y . Ka rearuatia te x , ka hauruatia te y .

- 1) Tuhia he kīanga pāngarau hei whakaatu i tēnei rautaki.
- 2) Whakamāramatia mai, he aha e ōrite ai te otinga o te whakareatanga o te x me te y , me te whakareatanga o te rearua o te x me te haurua o te y .

Hei Mahi 9

Whakamahia te rautaki ‘rearua me te haurua’, te ‘reatoru me te hautoru’, tētahi atu rautaki rānei e pēnei ana, hei whiriwhiri i ngā tauwehe katoa o ngā tau e whai ake nei.

- | | | |
|---------|----------|----------|
| 1) 16 | (2) 20 | (3) 40 |
| 4) 24 | (5) 30 | (6) 36 |
| 7) 44 | (8) 56 | (9) 60 |
| 10) 52 | (11) 64 | (12) 84 |
| 13) 27 | (14) 51 | (15) 45 |
| 16) 130 | (17) 124 | (18) 123 |
| 19) 300 | (20) 215 | (21) 141 |

**Te Whakarea
RAUTAKI PĀNGA RITERITE
NGĀ OTINGA**

Hei Mahi 1

- | | | | |
|------------------------------|-------------------------------|-------------------------------|-----------------------------------|
| 1) $8 \times 9 = 72$ | (2) $10 \times 8 = 80$ | (3) $6 \times 8 = 48$ | (4) $6 \times 12 = 72$ |
| 5) $2 \times 64 = 128$ | (6) $10 \times 24 = 240$ | (7) $2 \times 110 = 220$ | (8) $14 \times 10 = 140$ |
| 9) $10 \times 34 = 340$ | (10) $10 \times 68 = 680$ | (11) $18 \times 10 = 180$ | (12) $52 \times 2 = 104$ |
| 13) $56 \times 2 = 112$ | (14) $36 \times 20 = 720$ | (15) $10 \times 100 = 1000$ | (16) $4 \times 100 = 400$ |
| 17) $180 \times 100 = 18000$ | (18) $12 \times 100 = 1200$ | (19) $100 \times 7 = 700$ | (20) $100 \times 4 = 400$ |
| 21) $34 \times 100 = 3400$ | (22) $14 \times 1000 = 14000$ | (23) $17 \times 1000 = 17000$ | (24) $143 \times 10000 = 1430000$ |

Hei Mahi 2

- | | | | |
|---|---------------------------------------|---|---|
| 1) <input checked="" type="checkbox"/> 4×12 | (2) <input type="checkbox"/> \times | (3) <input type="checkbox"/> \times | (4) <input checked="" type="checkbox"/> 8×12 |
| 5) <input checked="" type="checkbox"/> 10×32 | (6) <input type="checkbox"/> \times | (7) <input checked="" type="checkbox"/> 4×50 | (8) <input type="checkbox"/> \times |
| 9) <input type="checkbox"/> \times | | | |
| 10) Me whakawhitiwhiti kōrero me tō kaiako. | | | |

Hei Mahi 3

- | | | | |
|---|--------------------------|------------------------------|----------------------------|
| 1) $9 \times 9 = 81$ | (2) $20 \times 30 = 600$ | (3) $12 \times 9 = 108$ | (4) $8 \times 8 = 64$ |
| 5) $100 \times 8 = 800$ | (6) $3 \times 99 = 297$ | (7) $1000 \times 12 = 12000$ | (8) $10 \times 196 = 1960$ |
| 9) $4 \times 99 = 396$ | | | |
| 10) Me whakawhitiwhiti kōrero me tō kaiako. | | | |
| 11) Me whakawhitiwhiti kōrero me tō kaiako. | | | |

Hei Mahi 4

- | | | | |
|------------------|----------------------------------|-------------------------------------|-------------------------------------|
| 1) $\square = 4$ | (2) $\square = 6$ | (3) $\square = 18$ | (4) $\square = 18$ |
| 5) $\square = 3$ | (6) $\square = 4$ | (7) $\square = 20$ | (8) $\square = 130$ |
| 9) $\square = 7$ | (10) $\square = 5$ $\bullet = 8$ | (11) $\square = 200$ $\bullet = 14$ | (12) $\square = 100$ $\bullet = 50$ |

Hei Mahi 5

- | | | | |
|--------------------------|-----------------------------|--------------------------------|--------------------------|
| 1) $1 \times 8 = 8$ | (2) $1 \times 16 = 16$ | (3) $1 \times 4 = 4$ | (4) $3 \times 15 = 45$ |
| 5) $0.9 \times 8 = 7.2$ | (6) $1 \times 19 = 19$ | (7) $8 \times 0.8 = 6.4$ | (8) $3 \times 7 = 21$ |
| 9) $9 \times 0.8 = 7.2$ | (10) $10 \times 7.8 = 78$ | (11) $0.8 \times 0.08 = 0.064$ | (12) $0.2 \times 30 = 6$ |
| 13) $6.4 \times 10 = 64$ | (14) $10 \times 0.87 = 8.7$ | (15) $100 \times 0.64 = 64$ | |
| (16) | | | |

Hei Mahi 6

- | | | |
|---|--|--|
| 1) $18 \times 5 \rightarrow 9 \times 10 = 90$ | (2) $6 \times 24 \rightarrow 12 \times 12 = 144$ | (3) $120 \times 20 \rightarrow 240 \times 10 = 2400$ |
| 4) $3 \times 24 \rightarrow 9 \times 8 = 72$ | (5) $18 \times 15 \rightarrow 9 \times 30 = 270$ | (6) $6 \times 25 \rightarrow 3 \times 50 = 150$ |
| 7) $15 \times 6 \rightarrow 30 \times 3 = 90$ | (8) $5 \times 14 \rightarrow 10 \times 7 = 70$ | (9) $2244 \times 5 \rightarrow 1122 \times 10 = 11220 \text{ml}$ |
| 10) $15 \times 22 \rightarrow 30 \times 11 = 330$ | | |

Hei Mahi 7

- | | | |
|---------------|---|----------|
| 1) $2\square$ | (2) $\square/2$ or $\frac{1}{2}\square$ | (3) $2x$ |
|---------------|---|----------|

4) $\frac{x}{2}, \frac{1}{2}x, x \div 2$ rānei

Hei Mahi 8

1) $2x \times \frac{y}{2}, 2x \times \frac{1}{2}y$ rānei

(2) $2x \times \frac{1}{2}y = 2 \times \frac{1}{2} \times x \times y = x \times y$

Hei Mahi 9

1) 16,8,4,2,1

(2) 20,10,5 & 4,1

(3) 40,20,10,5 & 8,4,2,1

4) 24,12,6,3 & 8,4,2,1

(5) 30,15 & 10,5,3,1

(6) 36,18,9 & 12,4 & 6,1

7) 44,22,11 & 4,2,1

(8) 56,28,14,7 & 8,4,2,1

(9) 60,30,20,15,12,10,6,5,4,3,2,1

10) 52,26,13,4,2,1

(11) 64,32,16,8,4,2,1,

(12) 84,42,21,28,14,12,7,6,3,4,2,1

13) 27,9,3,1

(14) 51,17,3,1

(15) 45,15,5,9,3,1

16) 130,65,26,5,2,1

(17) 124,62,31,4,2,1

(18) 123,41,3,1

19) $1 \times 300, 2 \times 150, 4 \times 75, 12 \times 25, 60 \times 5, 30 \times 10, 15 \times 20, 3 \times 100$

20) 5×43

(21) 3×47