

Te Tāpiri me te Tango Hautau: He Wāhanga Ōrite

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E ako ana ahau ki te tāpiri hautau māmā.

Hei Mahi 1

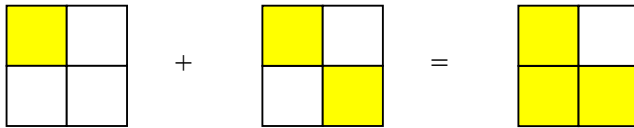
Ngā tohutohu:

Whakamahia he tohu hautau, ka tuhi ai i te tāpiritanga e hāngai ana ki ēnei rapanga.

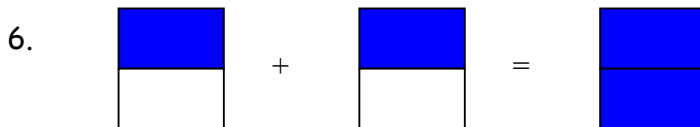
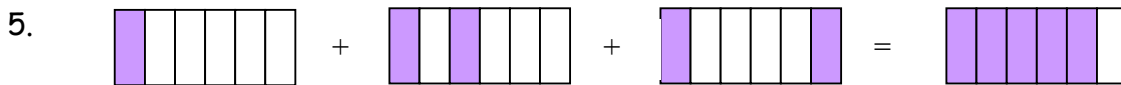
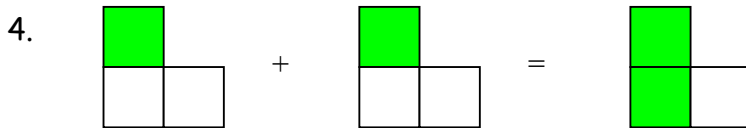
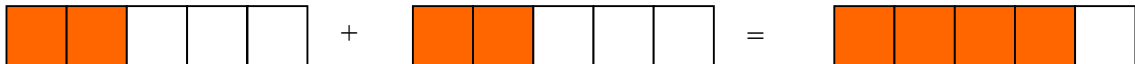
1. Ka kainga e Terehia te kotahi hautoru o te keke. Kotahi hautoru anō ka kainga e Ani. Hui katoa, pēhea nei te rahi o te keke ka kainga e rāua tahi?



2. Kua oti i a Hemi te kotahi hauwhā o te panga. E rua hauwhā kua oti i a Arihia. Hui katoa, pēhea nei te rahi o te panga kua oti i a rāua tahi?



3. E rua haurima o te pūtea moni kua pau i a Hariata, e rua haurima anō kua pau i a Iriaka. Hui katoa, pēhea nei te rahi o te pūtea kua pau i a rāua tahi?



7. Koia nei te tāpiritanga e hāngai ana ki te pātai tuatahi: $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$. Āta tirohia ngā tāpiritanga mō ērā atu o ngā pātai, ka whiriwhiri i tētahi tikanga mō te tāpiri hautau. Tuhia he whakamārama mō tēnei tikanga.

8. Whakamahia te tikanga mō te tāpiri hautau, ka whakaoti ai i ēnei tāpiritanga.

(a) $\frac{3}{5} + \frac{1}{5}$

(b) $\frac{3}{8} + \frac{1}{8}$

(c) $\frac{5}{13} + \frac{4}{13}$

(d) $\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

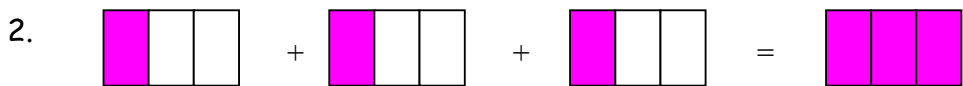
(e) $\frac{3}{8} + \frac{1}{8} + \frac{3}{8}$

(f) $\frac{8}{19} + \frac{3}{19} + \frac{2}{19}$

9. Tuhia tēnei whakamārama ki tō pukapuka, ka whakaoti ai i ngā kupu e ngaro ana.
 Ko te tikanga o te tauraro o tētahi hautau, ko te _____
 Ko te tikanga o te taurunga o tētahi hautau, ko te _____
 Koinei te take ka tāpirihia ko ngā taurunga anake o tētahi tāpiritanga hautau, arā, ko te tāpiri i ngā wāhanga hautanga katoa. Kāore e tāpirihia te momo hautanga e whakaaturia ana ki te tauraro o ngā hautau.

Hei Mahi 2

1. Tuhia tēnei rerenga kōrero, ka whakaoti ai:
 Ko tā te pātai 6 (Hei Mahi 1), he whakaatu i te tikanga:
 E _____ ngā haurua kei roto i te kotahi.



- (a) Whakamahia he tohu hautau, ka tuhi ai i tēnei tāpiritanga.
 - (b) E hia ngā haurua kei roto i te kotahi?
3. (a) E hia ngā hauwhā kei roto i te kotahi?
 (b) E hia ngā hauono kei roto i te kotahi?
 (c) E hia ngā hautekau kei roto i te kotahi?
 (d) Tuhia kia whā ngā tāpiritanga hautau, kia eke ko te kotahi te otinga o ia tāpiritanga.

4. Ko ēhea o ēnei hautau he ōrite ki te kotahi?

(a) $\frac{9}{9}$ (b) $\frac{12}{12}$ (c) $\frac{x}{x}$

Hei Mahi 3

Whakaotia ēnei tāpiritanga hautau.

1. $\frac{3}{7} + \frac{1}{7}$

2. $\frac{2}{9} + \frac{3}{9}$

3. $\frac{1}{4} + \frac{2}{4}$

4. $\frac{1}{10} + \frac{7}{10}$

Hei Āta Whakaaro Māu

He nui ake i te kotahi te otinga o ngā tāpiritanga e whai ake nei. Pēhea nei te āhua o tētahi hautau nui ake i te kotahi?

Tuhia tētahi hautau nui ake i te kotahi. Whakaaturia tō hautau ki tētahi hoa, ka whakawhitiwhiti kōrero ai.

5. $\frac{6}{7} + \frac{2}{7}$

6. $\frac{4}{7} + \frac{5}{7}$

7. $\frac{2}{3} + \frac{2}{3}$

8. $\frac{5}{6} + \frac{3}{6}$

9. $\frac{9}{4} + \frac{1}{4}$

10. $\frac{12}{11} + \frac{6}{11}$

11. $\frac{15}{8} + \frac{9}{8}$

12. $\frac{7}{3} + \frac{2}{3}$

13. $\frac{11}{9} + \frac{4}{9}$

14. $\frac{17}{15} + \frac{22}{15}$

15. $\frac{16}{13} + \frac{5}{13}$

16. $\frac{17}{4} + \frac{1}{4}$

17. Māu anō e whakaaro ētahi tāpiritanga hautau e rima, ka tuhi ai. Whakaotia ō tāpiritanga.

Hei Tūhura

Āta whakaarohia tēnei rapanga:

E rima hauwaru parehe (pīta) i tukuna ki a Heni. E whā o ēnei hauwaru ka kainga e ia. Pēhea nei te rahi o te parehe (pīta) e toe mai ana?

1. Tuhia he pikitia hei whakaatu i tēnei rapanga.
2. Tuhia te rerenga tohu hautau e hāngai ana ki tēnei rapanga.
3. Māu anō e whakaaro ētahi pakitau e toru, e whai wāhi mai ana te tangohanga hautau. Tuhia he pikitia hei whakaatu i ēnei pakitau, tuhia hoki te rerenga tohu hautau e hāngai ana.
4. He aha te tikanga mō te tangohanga hautau māmā?

Hei Mahi 4

Whakaotia ēnei tangohanga hautau.

1. $\frac{7}{11} - \frac{3}{11}$

2. $\frac{6}{10} - \frac{5}{10}$

3. $\frac{3}{8} - \frac{2}{8}$

4. $\frac{3}{4} - \frac{1}{4}$

5. $\frac{9}{5} - \frac{6}{5}$

6. $\frac{10}{8} - \frac{3}{8}$

7. $\frac{11}{9} - \frac{4}{9}$

8. $\frac{10}{7} - \frac{6}{7}$

9. $\frac{14}{5} - \frac{6}{5}$

10. $\frac{17}{3} - \frac{10}{3}$

11. $\frac{17}{11} - \frac{6}{11}$

12. $\frac{14}{6} - \frac{2}{6}$

13. Māu anō e whakaaro ētahi tangohanga hautau e rima, ka tuhi ai. Whakaotia ō tangohanga.

Hei Mahi 5

Mēnā e mōhio ana koe ki te huri i te hautau nui ake i te kotahi hei tau hanumi, me āta tiro tiro ngā otinga mō ngā Hei Mahi 1 ki te 4. Mēnā he huatau nui ake i te kotahi te otinga, hurihia hei tau hanumi.

Mēnā e mōhio ana koe ki te whakamāmā hautau, me āta tiro tiro ngā otinga mō ngā Hei Mahi 1 ki te 4, ka whakamāmā ai i ngā otinga mēnā e taea ana.

Te Tāpiri me te Tango Hautau NGĀ OTINGA

Hei Mahi 1

1) $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$ (2) $\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$ (3) $\frac{2}{5} + \frac{2}{5} = \frac{4}{5}$ (4) $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$

5) $\frac{1}{6} + \frac{2}{6} + \frac{2}{6} = \frac{5}{6}$ (6) $\frac{1}{2} + \frac{1}{2} = \frac{2}{2}$

7) Ka tāpirihia ngā taurunga o ngā hautau, ka waiho noa iho te tauraro. Hei taurira:

$$\frac{4}{17} + \frac{7}{17} = \frac{4+7}{17} = \frac{11}{17}$$

8) (a) $\frac{4}{5}$ (b) $\frac{4}{8}$ (c) $\frac{9}{13}$ (d) $\frac{3}{4}$ (e) $\frac{7}{8}$ (f) $\frac{13}{19}$

9) Ko tā te tauraro o tētahi hautau, he whakaatu i te maha o ngā wāhanga ōrite kei roto i te mea tūtahi. Ko tā te taurunga, he whakaatu i te maha o aua wāhanga ōrite e kōrerohia ana. Nā tēnei tikanga, mēnā e tāpirihia ana ētahi hautau (he ōrite te tauraro), ka tāpirihia ngā taurunga anake o ngā hautau, ka waiho noa iho te tauraro.

Hei Mahi 2

1) Ko te te patai 6 (Hei Mahi 1), he whakaatu i te tikanga e rua ngā haurua kei roto i te kotahi.

2) (a) $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} = \frac{3}{3}$

(b) E toru ngā haurua kei roto i te kotahi.

3) (a) E whā ngā hauwhā kei roto i te kotahi.

(b) E ono ngā hauono kei roto i te kotahi.

(c) Tekau ngā hautekau kei roto i te kotahi.

(d) He nui tonu ngā whakautu tika, engari kia ōrite te taurunga me te tauraro o ia hautau.

4) He ōrite ēnei hautau katoa ki te kotahi, nā te mea he ōrite te taurunga me te tauraro o ia hautau.

Hei Mahi 3

1) $\frac{4}{7}$ (2) $\frac{5}{9}$ (3) $\frac{3}{4}$ (4) $\frac{8}{10}$

Mō te hautau iti iho i te kotahi: Kia iti iho te taurunga i te tauraro.

Mō te hautau ōrite ki te kotahi: Kia ōrite te taurunga me te tauraro.

Mō te hautau nui ake i te kotahi: Kia nui ake te taurunga i te tauraro.

5) $\frac{8}{7}$

(6) $\frac{9}{7}$

(7) $\frac{4}{3}$

(8) $\frac{8}{6}$

9) $\frac{10}{4}$

(10) $\frac{18}{11}$

(11) $\frac{24}{8}$

(12) $\frac{9}{3}$

13) $\frac{15}{9}$

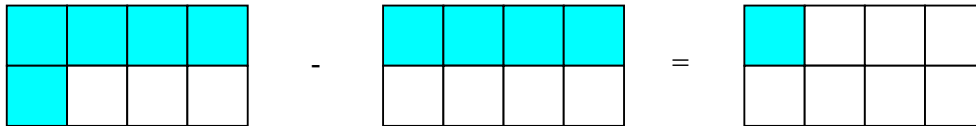
(14) $\frac{39}{15}$

(15) $\frac{21}{13}$

(16) $\frac{18}{4}$

Hei Āta Whakaaro Māu

1)



2) $\frac{5}{8} - \frac{4}{8} = \frac{1}{8}$

4) Mēnā he ōrite te tauraro o ngā hautau, ko ngā taurunga anake ka tangohia. Hei taurira:

$$\frac{5}{6} - \frac{4}{6} = \frac{5-4}{6}$$

$$= \frac{1}{6}$$

Hei Mahi 4

1) $\frac{4}{11}$

(2) $\frac{1}{10}$

(3) $\frac{1}{8}$

(4) $\frac{2}{4}$

5) $\frac{3}{5}$

(6) $\frac{7}{8}$

(7) $\frac{7}{9}$

(8) $\frac{4}{7}$

9) $\frac{8}{5}$

(10) $\frac{7}{3}$

(11) $\frac{11}{11}$

(12) $\frac{12}{6}$

Hei Mahi 5

Mai i Hei Mahi 1:

6) 1

8) (b) $\frac{1}{2}$

Mai i Hei Mahi 2

$$\frac{3}{3} = 1$$

He  rite ng  otinga katoa ki te kotahi.

Mai i Hei Mahi 3

4) $\frac{1}{2}$ (5) $1\frac{1}{7}$ (6) $1\frac{2}{7}$ (7) $1\frac{1}{3}$ (8) $1\frac{2}{6} = 1\frac{1}{3}$ (9) $2\frac{2}{4} = 2\frac{1}{2}$

10) $1\frac{7}{11}$ (11) 3 (12) 3 (13) $1\frac{6}{9} = 1\frac{2}{3}$ (14) $2\frac{9}{15} = 2\frac{3}{5}$

15) $1\frac{8}{13}$ (16) $4\frac{2}{4} = 4\frac{1}{2}$

Mai i Hei Mahi 4

4) $\frac{1}{2}$ (9) $1\frac{3}{5}$ (10) $2\frac{1}{3}$ (11) 1 (12) 2