

He Rautaki Tāpiritanga, Tangohanga Hoki: Ngā Tau Tapeke Māmā o te Rua Tekau

4

5

6

7

8

E ako ana ahau i ngā tau tapeke māmā mō te rua tekau.

Hei Mahi 1:

Ngā tohutohu:

Ko te 20 te tapeke o ētahi o ēnei tāpiritanga. He tau māmā te 20. Tuhia ngā tāpiritanga ko te 20 te tapeke.

- | | | |
|--------------|---------------|----------------|
| 1) $14 + 6$ | (2) $3 + 17$ | (3) $5 + 13$ |
| 4) $16 + 5$ | (5) $11 + 9$ | (6) $6 + 12$ |
| 7) $14 + 3$ | (8) $10 + 10$ | (9) $9 + 12$ |
| 10) $1 + 19$ | (11) $14 + 7$ | (12) $13 + 7$ |
| 13) $12 + 9$ | (14) $18 + 2$ | (15) $14 + 8$ |
| 16) $20 + 0$ | (17) $6 + 15$ | (18) $7 + 13$ |
| 19) $9 + 8$ | (20) $15 + 6$ | (21) $11 + 12$ |

Ngā tohutohu:

Tuhia ēnei tāpiritanga, me te tohu anō mēnā e TIKA ana, e HĒ ana rānei te tāpiritanga.

- | | | |
|-------------------|--------------------|---------------------|
| 22) $5 + 16 = 20$ | (23) $11 + 9 = 20$ | (24) $15 + 7 = 20$ |
| 25) $8 + 12 = 20$ | (26) $5 + 15 = 20$ | (27) $7 + 9 = 20$ |
| 28) $16 + 4 = 20$ | (29) $8 + 13 = 20$ | (30) $10 + 10 = 20$ |
| 31) $2 + 19 = 20$ | (32) $11 + 7 = 20$ | (33) $18 + 2 = 20$ |
| 34) $13 + 7 = 20$ | (35) $6 + 14 = 20$ | (36) $3 + 16 = 20$ |
- 37) Kāore ētahi o ngā tāpiritanga 22 ki te 36 i runga nei i eke ki te 20 te tapeke. He aha tētahi rautaki e tere mōhio ai koe mēnā i eke ki te 20, kāore rānei. Whakawhitiwhiti kōrero me tō kaiako.

Kua tuhia te tapeke o ēnei tāpiritanga i te tīmatanga. Māu e tuhi ngā tāpiritanga ki tō pukapuka, me te tohu anō mēnā e TIKA ana, e HĒ ana rānei.

38) $20 = 3 + 17$

(39) $20 = 6 + 16$

(40) $20 = 9 + 11$

41) $20 = 4 + 16$

(42) $20 = 14 + 5$

(43) $20 = 0 + 20$

44) $20 = 7 + 13$

(45) $20 = 12 + 9$

(46) $20 = 1 + 19$

Hei Mahi 2:

Ngā tohutohu:

He nui ake i te 20, he ōrite ki te 20, he iti iho rānei i te 20 ngā tāpiritanga e whai ake nei. Tuhia ngā tāpiritanga me te tohu e tika ana, ara, te <, te =, te > rānei.

1) $6 + 12$ 20

(2) $3 + 18$ 20

(3) $9 + 7$ 20

4) $5 + 15$ 20

(5) $2 + 18$ 20

(6) $6 + 17$ 20

7) $7 + 15$ 20

(8) $19 + 1$ 20

(9) $7 + 12$ 20

10) $16 + 4$ 20

(11) $13 + 6$ 20

(12) $7 + 13$ 20

13) $17 + 6$ 20

(14) $15 + 5$ 20

(15) $0 + 20$ 20

Kua tuhia te tapeke (20) o ēnei tāpiritanga i te tīmatanga. Māu e tuhi ngā tāpiritanga ki tō pukapuka me te tohu e tika ana, arā, ko te <, te =, te > rānei.

16) 20 $14 + 9$

(17) 20 $12 + 5$

(18) 20 $8 + 12$

19) 20 $10 + 10$

(20) 20 $9 + 9$

(21) 20 $11 + 10$

22) 20 $0 + 19$

(23) 20 $6 + 12$

(24) 20 $18 + 2$

25) 20 $7 + 13$

(26) 20 $9 + 13$

(27) 20 $5 + 13$

28) 20 $5 + 18$

(29) 20 $6 + 14$

(30) 20 $20 + 0$

31) E mōhio ana a Mātene i ana meka tāpiritanga matua ki te 10, arā, ngā tāpiritanga pēnei i te $7 + 3 = 10$ me te $4 + 5 = 9$. He āwhina nui tēnei hei tuhi māna i te tohu e tika ana ki ngā tāpiritanga i runga ake nei. He aha ai? Whakawhitiwhiti kōrero me tō kaiako.

Hei Mahi 3

Ngā tohutohu:

Tuhia te tau e tika ana ki te pouaka, kia tika ai te tāpiritanga. Tuhia te katoa o te tāpiritanga ki tō pukapuka.

- | | | |
|-------------------------|--------------------------|-------------------------------|
| 1) $9 + \square = 20$ | (2) $15 + \square = 20$ | (3) $1 + \square = 20$ |
| 4) $18 + \square = 20$ | (5) $\square + 8 = 20$ | (6) $17 + \square = 20$ |
| 7) $\square + 1 = 20$ | (8) $6 + 14 = \square$ | (9) $\square + 7 = 20$ |
| 10) $20 + \square = 20$ | (11) $\square + 2 = 20$ | (12) $15 + 5 = \square$ |
| 13) $7 + \square = 20$ | (14) $3 + 17 = \square$ | (15) $\square + 0 = 20$ |
| 16) $14 + \square = 20$ | (17) $\square + 18 = 20$ | (18) $\square + \square = 20$ |

Hei Mahi 4

- 1) $\square + \triangle = 20$ Ko te tikanga o tēnei rerenga kōrero e mea ana, e rua ngā tau e tāpirihia ana, ā, ko te 20 te tapeke. Tuhia ngā tau tāpiri takirua katoa e taea ana.
- 2) E tika ana kia ōrite te tau ka tuhia ki ngā pouaka e rua o tēnei tāpiritanga: $\square + \square = 10$. Ka taea te tuhi hei whakareatanga: $2 \times \square = 10$. He whakareatanga hoki tēnei: $2\square = 10$
Tuhia ēnei tāpiritanga hei whakareatanga:
- | | | |
|----------------------------------------|-----------------------------------------|--------------------------------------------------|
| (a) $\square + \square = 20$ | (e) $\square + \square = 40$ | (h) $\square + \square = 60$ |
| (i) $\square + \square = 30$ | (k) $\square + \square = 50$ | (m) $\square + \square = 70$ |
| (n) $\square + \square + \square = 30$ | (ng) $\square + \square + \square = 60$ | (o) $\square + \square + \square + \square = 40$ |
- 3) Tuhia ēnei whakareatanga hei tāpiritanga:
- | | | |
|---------------------|----------------------|---------------------|
| (a) $2\square = 10$ | (e) $2\square = 20$ | (h) $2\square = 60$ |
| (i) $2\square = 30$ | (k) $2\square = 50$ | (m) $3\square = 30$ |
| (n) $5\square = 50$ | (ng) $3\square = 60$ | (o) $4\square = 40$ |

Hei Mahi 5

Ngā tohutohu:

Tuhia te tau e tika ana ki te pouaka kia tika ai te tangohanga. Tuhia te katoa o te tangohanga ki tō pukapuka.

- | | | |
|------------------------|-------------------------|-------------------------|
| 1) $20 - 1 = \square$ | (2) $20 - \square = 18$ | (3) $20 - 19 = \square$ |
| 4) $20 - \square = 7$ | (5) $20 - \square = 5$ | (6) $20 - 4 = \square$ |
| 7) $20 - \square = 16$ | (8) $20 - \square = 12$ | (9) $20 - 6 = \square$ |
| 10) $\square - 15 = 5$ | (11) $20 - \square = 7$ | (12) $\square - 9 = 11$ |

Ngā tohutohu:

Tuhia ēnei tangohanga, ka tohu ai mēnā e TIKĀ ana, e HĒ ana rānei.

- | | | |
|-------------------|--------------------|--------------------|
| 13) $20 - 1 = 18$ | (14) $20 - 5 = 15$ | (15) $20 - 12 = 9$ |
| 16) $20 - 14 = 6$ | (17) $20 - 7 = 12$ | (18) $20 - 6 = 14$ |
| 19) $20 - 13 = 6$ | (20) $20 - 8 = 12$ | (21) $20 - 3 = 17$ |
- 22) He meka tāpiritanga te $19 + 1 = 20$. E taea ana te huri hei tangohanga. E rua ngā tangohanga e hāngai ana, arā, ko te $20 - 1 = 19$ me te $20 - 19 = 1$. Tuhia ētahi meka tāpiritanga e ono mō te 20, me ngā tangohanga e rua e hāngai ana ki tēnā me tēnā o ngā tāpiritanga.

Hei Mahi 6

Ngā tohutohu:

Hurihia ēnei tangohanga hei tāpiritanga.

- | | | |
|--------------|----------------|---------------|
| 1) $20 - 10$ | (2) $20 - 5$ | (3) $20 - 8$ |
| 4) $20 - 6$ | (5) $20 - 19$ | (6) $20 - 15$ |
| 7) $20 - 13$ | (8) $20 - 2$ | (9) $20 - 9$ |
| 10) $20 - 7$ | (11) $20 - 16$ | (12) $20 - 1$ |
- 13) Tuhia ngā otinga ki ngā tangohanga 1 ki te 12.
- 14) He aha te take e hurihia ai tētahi tangohanga hei tāpiritanga? Whakawhitiwhiti kōrero me tō kaiako.

Hei Mahi 7

What to do

Tuhia te tāpiritanga, te tangohanga rānei o ia rapanga i raro iho nei. Ko ēhea ngā rapanga he māmā te whakaoti mēnā e mōhio ana koe ki ngā tau tapeke māmā o te 20.

- 1) E 20 ngā 'peke whetū' hei whakaoti mā Hinerau i tana mahi whakapakari tinana. Mēnā 12 kua oti, e hia e toe mai ana?
- 2) E 8 ngā pihikete ka kainga e te kurī a Wiremu i ia ata. 15 ka kainga e te kurī a tōna hoa. E hia katoa ngā pihikete ka kainga e ngā kurī e rua nei?
- 3) E 9 ngā kāri a Roimata, 11 ā Taika. E hia katoa ā rāua kāri?
- 4) E tākaro poitarawhiti ana te kura o Awahou me te kura o Hiwiroa. I te wā haurua, ko te 25 ki te 15 te kaute, ko Awahou kei mua. E hia ngā piro kei waenganui i ngā tīma e rua nei?
- 5) 17 ngā kuku i kohia e Whaiora, 13 i kohia e Matewai. E hia katoa ā rāua kuku?
- 6) 17 ngā māpere a Hirere. E 3 te nuinga ake i tēnā, ngā māpere a Aroha. E hia katoa ā rāua māpere?
- 7) Kei te tuku ī mera a Kui ki āna mokopuna 20. Kua tukuna ngā ī mera 11. E hia kei te toe hei tuku māna?
- 8) E 9 ngā āporo i katoa e Hirini. E 2 te nuinga ake i tēnei, ngā āporo i katoa e Ellie. E hia katoa ā rāua āporo?
- 9) Kei te hiahia a Whaea Wini ki te hoatu tātaitai ki āna ākongā katoa. E 20 āna ākongā, e 8 āna tātaitai. E hia atu anō ngā tātaitai hei kimi māna?
- 10) E 20 katoa ngā pene a ngā tamariki tokotoru nei. E 7 ā Kiri, e 8 ā Pua. E hia ngā pene a Hirini?
- 11) E 7 ngā ārani, e 6 ngā panana, e 9 ngā āporo kei roto i te paepae. E hia katoa ngā hua rākau nei?
- 12) 18 ngā kēmu i toa ai te tīma poiwhana o Matiu. E 2 te nuinga ake i tēnei, i toa ai te tīma o Rāwiri. E hia katoa ngā kēmu i toa ai ngā tīma e rua nei?

Hei Mahi 8

Ngā tohutohu:

Tuhia te tāpiritanga te tangohanga rānei o ia rapanga, ka whakaoti ai. Ko ēhea ngā rapanga e taea ana te whakaoti mā te whakamahi i ngā tau tapeke māmā o te 10?

- 1) He kohikohi pōro hahau te mahi a Hāmi rāua ko Rangi. Kia eke ki te 50 ngā pōro ka kohia e rāua, mā te pāpā o Hāmi e hoatu te \$10. E 30 ngā pōro kua kohia e Hāmi, e 20 kua kohia e Rangi. Ka riro i a rāua te \$10, kāore rānei?

- 2) He kohikohi pōro hahau hoki te mahi a Ana rāua ko Hera. E 41 ngā pōro kua kohia e Ana, e 7 kua kohia e Hera. Ka riro i a rāua te \$10?
- 3) I tētahi Rāhoroi, ka whakakotahitia ngā pōro i kohia e rātou katoa, arā, ngā pōro 10 i kohia e Hāmi, ngā pōro 25 a Rangi, ngā pōro 15 a Ana me ngā pōro 10 a Hera. E hia ngā moni ka riro i a rāua?
- 4) E 35 ngā pōro hahau kua kohia e Hāre. E hia atu anō hei kohi māna kia riro i a ia te \$10?
- 5) Kua kainga ngā tiakareti 31 o ngā tiakareti 40 i tētahi pouaka. E hia ngā tiakareti e toe mai ana?
- 6) E 47 ngā kau a Tame hei miraka māna 13 ngā kau a Hine. E hia katoa ā rāua kau?
- 7) Kei te tunu pihikete a Kui. E 24 ngā pihikete i tunua i te ata, 16 i tunua i te ahiahi. E hia katoa ngā pihikete nā Kui i tunu?
- 8) E 70 ngā pirepire a Mihi. E 25 he kahurangi, e 30 he kākārīki, ko te toenga he pango. E hia āna pirepire pango?
- 9) E 70 meneti te wā i omaoma ai a Hinehou i te roanga atu o ētahi rangi e 4. E 20 meneti i te rā tuatahi. E 20 meneti anō i te rā tuarua. 18 meneti i te rā tuatoru. E hia meneti te roa o te omaoma a Hinehou i te rā tuawhā?
- 10) E 90 katoa ngā ākonga. E 69 e ako ana i te kaupapa Toi, ko te toenga e ako ana i te kaupapa Hangarau. Tokohia e ako ana i te Hangarau?

Exercise 9

- 1) $a + e = 20$ He rerekē ngā tau e tohua ana e te 'a' me te 'e' i tēnei tāpiritanga. Tuhia ngā tau takirua katoa e taea ana, kia eke ki te 20 te tapeke.

Ngā Otinga

Hei Mahi 1

Koia nei ngā tāpiritanga ko te 20 te tapeke: 1, 2, 5, 8, 10, 12, 14, 16, 18

- 22) Hē (23) Tika (24) Hē
25) Tika (26) Tika (27) Hē (28) Tika
29) Hē (30) Tika (31) Hē (32) Hē
33) Tika (34) Tika (35) Tika (36) Hē
37) Whakawhitiwhiti kōrero me tō kaiako.
38) Tika (39) Hē (40) Tika (41) Tika
42) Hē (43) Tika (44) Tika (45) Hē
46) Tika

Hei Mahi 2

- 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) =
31) Whakawhitiwhiti kōrero me tō kaiako.

Hei Mahi 3

- 1) □ = 11 (2) □ = 5 (3) □ = 19 (4) □ = 2
5) □ = 12 (6) □ = 3 (7) □ = 19 (8) □ = 20
9) □ = 13 (10) □ = 0 (11) □ = 18 (12) □ = 20

13) 10, 15, 12, 14, 1, 5, 7, 18, 11, 13, 4, 19

14) Whakawhitiwhiti kōrero me tō kaiako.

Hei Mahi 7

- 1) $20 - 12$ or $20 - 12 = \square$ or $12 + \square = 20$ tapeke māmā: 20
- 2) $8 + 15$ or $8 + 15 = \square$ Kāore e eke ki te 20. Ehara i te tapeke māmā.
- 3) $9 + 11$ or $9 + 11 = \square$ tapeke māmā: 20
- 4) $25 - 15$ or $25 - 15 = \square$ or $15 + \square = 25$ Kāore e eke ki te 20. Ehara i te tapeke māmā.
- 5) $17 + 13$ or $17 + 13 = \square$ tapeke māmā: 30
- 6) $17 + 3 = 20$, $17 + 20 = \square$ tapeke māmā: 20 (wāhanga tuatahi)
- 7) $20 - 11$ or $20 - 11 = \square$ or $11 + \square = 20$ tapeke māmā: 20
- 8) $9 + 2 = 11$, $9 + 11 = \square$ tapeke māmā: 20 (wāhanga tuarua)
- 9) $20 - 8$ or $20 - 8 = \square$ or $8 + \square = 20$ tapeke māmā: 20
- 10) $7 + 8 + \square = 20$ or $20 - 8 - 7 = \square$ tapeke māmā: 20
- 11) $7 + 6 + 9$ or $7 + 6 + 9 = \square$ Kāore e eke ki te 20. Ehara i te tapeke māmā.
- 12) $18 + 2 = 20$, $20 + 18 = \square$ tapeke māmā: 20 (wāhanga tuatahi)

Hei Mahi 8

- 1) $30 + 20 = 50$, āe, ka riro i a rāua te \$10
- 2) $41 + 7 < 50$, kāore e riro i a rāua te \$10
- 3) $10 + 25 + 15 + 10 = 60$, ka riro i a rātou te \$10
- 4) $50 - 35$ $50 - 35 = \square$ $35 + \square = 50$ Nō reira, 15 atu anō hei kohi māna.
- 5) $40 - 31$ $40 - 31 = \square$ $31 + \square = 40$ Nō reira, e 9 e toe mai ana.
- 6) $47 + 13$ $47 + 13 = \square$ Nō reira, e 60 katoa ngā kau.
- 7) $24 + 16$ $24 + 16 = \square$ Nō reira, e 40 ngā pihikete a Kui.
- 8) $70 - 25 - 30$ $70 - 25 - 30 = \square$ $\square + 25 + 30 = 70$ Nō reira, 15 ngā pirepire pango.
- 9) $70 - 20 - 20 - 18$ $70 - 20 - 20 - 18 = \square$ $20 + 20 + 18 + \square = 70$
Nō reira, 12 meneti te roa o tana omaoma i te rā tuawhā.

10) $90 - 69$ $90 - 69 = \square$ $69 + \square = 90$ Nō reira, e 21 ngā ākonga e ako ana i te Hangarau

Hei Mahi 9

Tirohia te otinga o Hei Mahi 4, Nama 1