Te Poutama Tau
Āpitihanga Uiui Rautaki 4

Rauemi:
kia 20 ngā porotiti, kia 2 ngā kāri he A5 te rahi

Ngā Pātai	Ngā Tohutohu	Te Whakautu a te Ākonga me te Rautaki	Te Whakatau
1. Homai kia 10 ngā porotiti	Whakatakotoria ngā porotiti 20 ki mua i te ākonga.		If the student could not count 10 items rate the student as Stage 0 on operational strategies. Stop the interview. Otherwise proceed to Question 2
2. Anei ētahi porotiti e 3. Anei ētahi atu porotiti e 4. E hia katoa ngā porotiti?	Hoatu ētahi porotiti e 3 ki tētahi ringaringa o te ākonga. Hoatu kia 4 ki tērā o ngā ringaringa.		If the student is unable to solve 3 + 4 correctly rate them at stage 1 and stop the interview. If the student solves 3 + 4 by physically counting all the counters rate her/him at stage 2 and stop the interview. Otherwise proceed to Question 3
3. E 9 ngā porotiti kei raro i tēnei kāri. E 6 kei raro i tēnei. E hia katoa ngā porotiti?	Whakatakotoria kia 9 ngā porotiti ki raro i tētahi o ngā kāri, kia 6 ki raro i tētahi.		If the student solves the task by a Part-Whole method (e.g. 9 + 1 + 5 = 10 + 5) proceed to Question 4. If the student solves the task by "counting on" rate them at stage 4 and stop the interview. If the student could not solve the problem rate them at stage 3 and stop the interview.
4a. 71 ngā motukā tākaro a Mikaire. 38 ka ngaro i a ia. E hia ngā motukā tākaro e toe ana?	Whakaaturia te kāri rapanga ki te ākonga.		If the student gets 2 or 3 of problems correct, using at least two different partwhole strategies, proceed to Question 5. Otherwise rate the student at stage 5 and stop the interview.
4e. 259 ngā pepa rare i kohia mai e Kataraina mō tētahi whakataetae. 257 i kohia mai e Hirini. E hia katoa ā rāua pepa rare?	Whakaaturia te kāri rapanga ki te ākonga.		
4i. $602 kei roto i te pūtea pēke a Keriana. $299 ka pau i a ia ki te hoko pūrere kōpae. E hia tāra ka toe mai i tana pūtea?	Whakaaturia te kāri rapanga ki te ākonga.		

5a E 9 ngā tīma kua uru atu ki tētahi whakataetae whutupōro. 18 ngā tāngata o ia tīma. Tokohia katoa ngā tāngata?	Whakaaturia te kāri rapanga ki te ākonga.		If the student gets both questions correct, using at least two different part-whole strategies, proceed to Question 6. Otherwise rate the student at stage 6 and stop the interview.
5e. 154 ngā tīrau tēneti kei roto i te pēke hei whakatū i ngā tēneti e 7. E hia ngā tīrau hei whakatū i te tēneti kotahi?	Whakaaturia te kāri rapanga ki te ākonga.		
6a. E 6 mita papanga hei tuitui i ngā ārai e 8. E hia mita papanga hei tuitui i ngā ārai 20?	Whakaaturia te kāri rapanga ki te ākonga.		If the student gets both questions correct, using at least two different part-whole strategies, rate them at stage 8. Otherwise rate the student at stage 7.
6e. He pouaka tiakareti tā Matiu. Ka kainga e ia te 5 hau 9 o ngā tiakareti. 16 anake ngā tiakareti i toe mai mā tōna hoa, mā Inia. E hia ngā tiakareti i roto i te pouaka i te tīmatanga?	Whakaaturia te kāri rapanga ki te ākonga.		

Description of Strategy Stages

	Stage & Behavioural Indicator
0	**Emergent** The student has no reliable strategy to count an unstructured collection of items.
1	**One to One Counting** The student has a reliable strategy to count an unstructured collection of items.
2	**Counting from One on Materials** The student's most advanced strategy is counting from one on materials to solve addition problems.
3	**Counting from One by Imaging** The student's most advanced strategy is counting from one without the use of materials to solve addition problems.
4	**Advanced Counting** The student's the most advanced strategy is counting-on, or counting-back to solve addition or subtraction tasks.
5	**Early Additive Part-Whole Thinking** The student shows any Part-Whole strategy to solve addition or subtraction problems mentally by reasoning the answer from basic facts and/or place value knowledge.
6	**Advanced Additive Part-Whole Thinking** The student is able to use at least two different mental strategies to solve addition or subtraction problems with multi-digit numbers.
7	**Advanced Multiplicative Part-Whole** The student is able to use at least two different mental strategies to solve multiplication and division problems with whole numbers.
8	**Advanced Proportional Part-Whole** The student uses at least two different strategies to solve problems that involve equivalence with and between fractions, ratios and proportions.

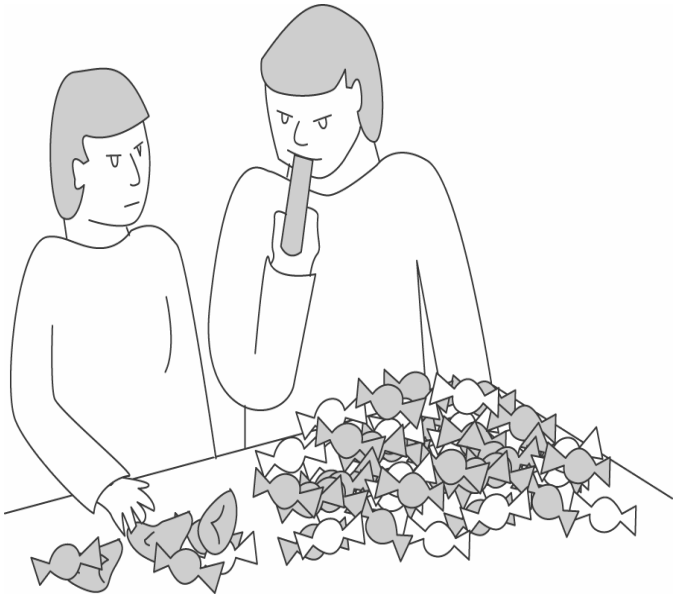
$3 + 4$

$9 + 6$

71 ngā motukā tākaro a Mikaire.

38 ka ngaro i a ia.

E hia ngā motukā tākaro e toe ana?



259 ngā pepa rare i kohia mai e Kataraina mō tētahi whakataetae.

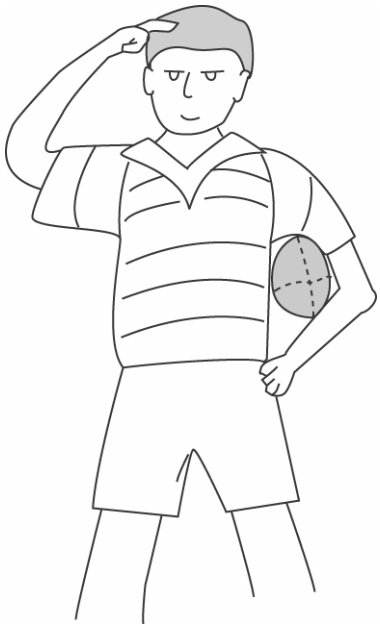
257 i kohia mai e Hirini.

E hia katoa ā rāua pepa rare?

$602 kei roto i te pūtea pēke a Keriana.

$299 ka pau i a ia ki te hoko pūrere kōpae.

E hia tāra ka toe mai i tana pūtea?



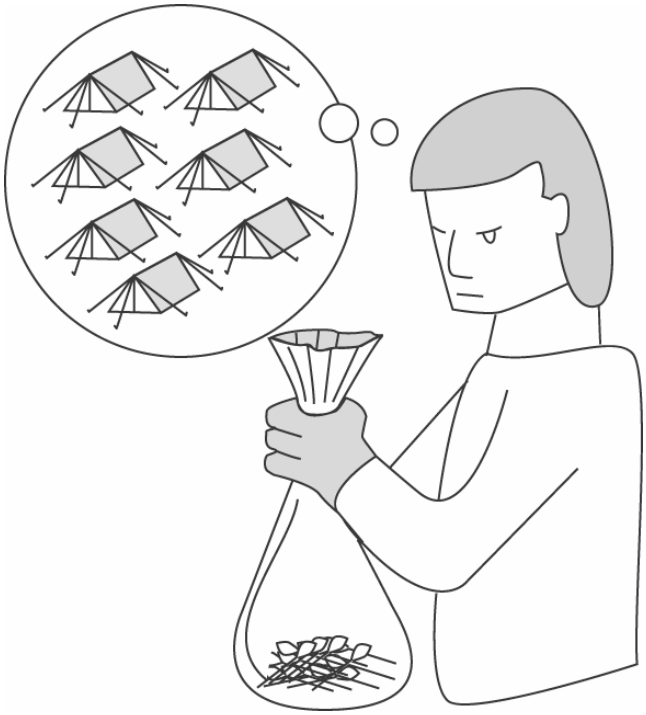
E 9 ngā tīma kua uru atu ki tētahi whakataetae whutupōro.

18 ngā tāngata o ia tīma.

Tokohia katoa ngā tāngata?

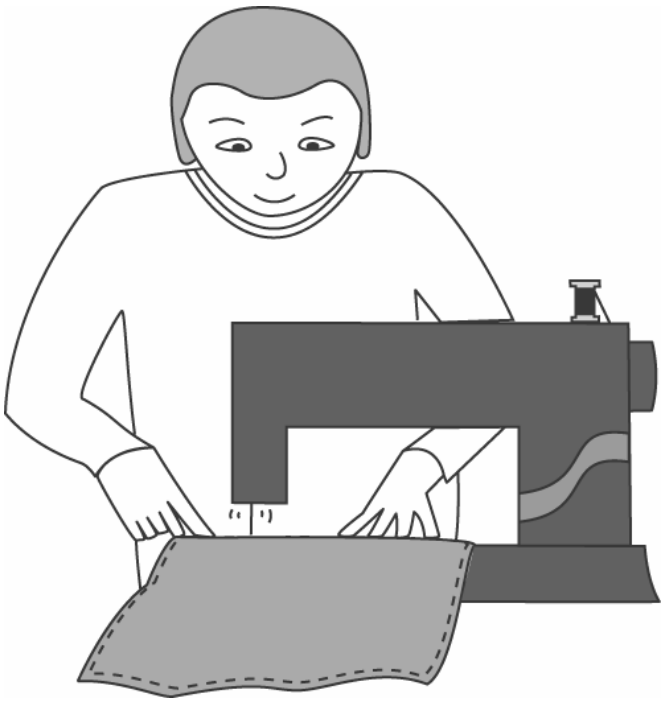
154 ngā tīrau tēneti kei roto i te pēke hei whakatū i ngā tēneti e 7.

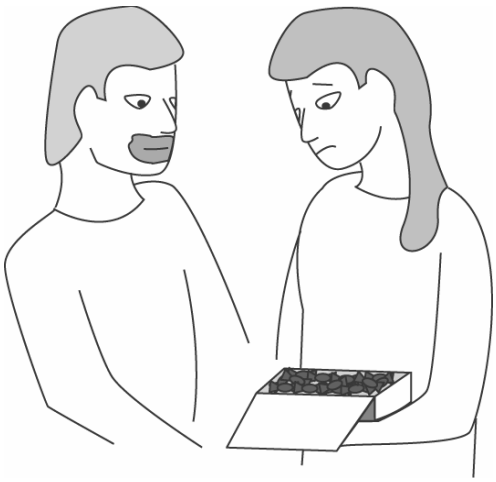
E hia ngā tīrau hei whakatū i te tēneti kotahi?



E 6 mita papanga hei tuitui i ngā ārai e 8.

E hia mita papanga hei tuitui i ngā ārai 20?





He pouaka tiakareti tā Matiu. Ka kainga e ia te 5 hau 9 o ngā tiakareti.

16 anake ngā tiakareti i toe mai mā tōna hoa, mā Inia.

E hia ngā tiakareti i roto i te pouaka i te tīmatanga?