Te Poutama Tau
Āpitihanga Uiui Rautaki 1

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 7 ngā porotiti	Whakatakotoria ngā porotiti 20 ki mua i te ākonga.		If the student could not count 7 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 5. E hia katoa ngā porotiti?	Hoatu ētahi porotiti e 3 ki tētahi ringaringa o te ākonga. Hoatu kia 5 ki tērā o ngā ringaringa.		If the student was unable to solve 3 + 5 correctly, rate them at Stage 1 and stop the interview. If the student solves 3 + 5 by physically counting all the counters rate him/her at Stage 2 and stop the interview. Otherwise proceed to Question 3.
3. E 9 ngā porotiti kei raro i tēnei kāri. E 7 kei raro i tēnei. E hia katoa ngā porotiti?	Whakatakotoria kia 7 ngā porotiti ki raro i tētahi o ngā kāri, kia 9 ki raro i tētahi.		If the student solves the question by a part-whole method (e.g. 9 + 1 + 6 = 10 + 6) proceed to Question 4. If the student solves the question 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. 62 ngā pihikete kei roto i te ipu. 37 ngā pihikete i kainga. E hia ngā pihikete e toe mai ana?	Whakaaturia te kāri rapanga ki te ākonga.		PĀTAI 4a, 4e, 4i If the student gets 2 or 3 of the problems correct using at least **2 different** partwhole strategies, proceed to Question 5. Otherwise rate the student at Stage 5 and stop the interview.
4e. 284 ngā piro netipōro a Hoana. 67 atu anō ana piro. E hia katoa ana piro?	Whakaaturia te kāri rapanga ki te ākonga.		
4i. 312 ngā ika mōkai a Anaru. 198 ka hokona atu ki te toa mōkai. E hia ana ika mōkai e toe mai ana?	Whakaaturia te kāri rapanga ki te ākonga.		

5a 27 kirokaramu (27 kg) te taumaha o tētahi kaho. E 7 ngā kaho. E hia te taumaha o ngā kaho katoa?	Whakaaturia te kāri rapanga ki te ākonga.		PĀTAI 5a, 5e If the student gets both questions correct using at least **2 different** part-whole strategies, proceed to Question 6. Otherwise rate the student at Stage 6 and stop the interview.
5e. 114 ngā pounamu waireka e hokona ana e Hone. E 6 ngā pounamu ki ia pūhera. E hia ngā pūhera waireka ka hokona e Hone?	Whakaaturia te kāri rapanga ki te ākonga.		
6a. $6.00 te utu mō ngā *avacado* e 8. E hia ngā *avacado* ka taea te hoko mō te $15.00.	Whakaaturia te kāri rapanga ki te ākonga.		PĀTAI 6a, 6e If the student gets both questions correct, using at least **2 different** partwhole strategies, rate them at Stage 8. Otherwise rate the student at Stage 7.
6e. 60 ngā pātai mō te raihana taraiwa motukā. 48 ngā whakautu a Pita i tika. He aha te ōrau o ana pātai tika?	Whakaaturia te kāri rapanga ki te ākonga.		

Description of Strategy Stages

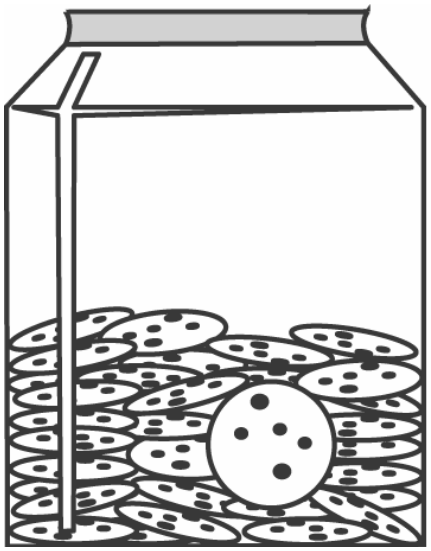
	Stage & Behavioural Indicator
0	**Emergent** The student has no reliable strategy to count an unstructured collection of items.
1	**One to One Counting** The student has a reliable strategy to count an unstructured collection of items.
2	**Counting from One on Materials** The student's most advanced 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.

$3 + 5$

$9 + 7$

62 ngā pihikete kei roto i te ipu.

37 ngā pihikete i kainga. E hia ngā pihikete e toe mai ana?

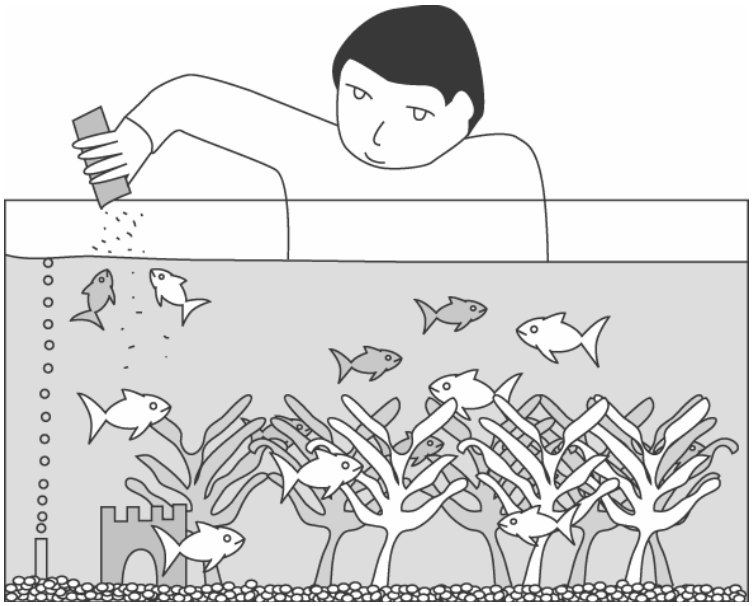


284 ngā piro netipōro a Hoana.

67 atu anō ana piro. E hia katoa ana piro?

312 ngā ika mōkai a Anaru.

198 ka hokona atu ki te toa mōkai.



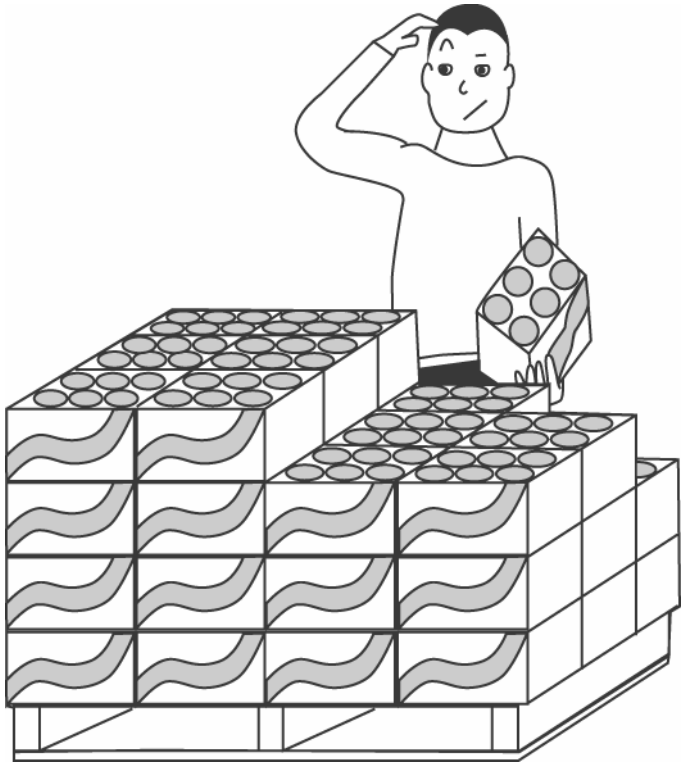
E hia ana ika mōkai e toe mai ana?

27 kirokaramu (27 kg) te taumaha o tētahi kaho. E 7 ngā kaho. E hia te taumaha o ngā kaho katoa?

114 ngā pounamu waireka e hokona ana e Hone.

E 6 ngā pounamu ki ia pūhera.

E hia ngā pūhera waireka ka hokona e Hone?



\$6.00 te utu mō ngā *avacado* e 8. E hia ngā *avacado* ka taea te hoko mō te \$15.00.

60 ngā pātai mō te raihana taraiwa motukā.

48 ngā whakautu a Pita i tika.

He aha te ōrau o ana pātai tika?