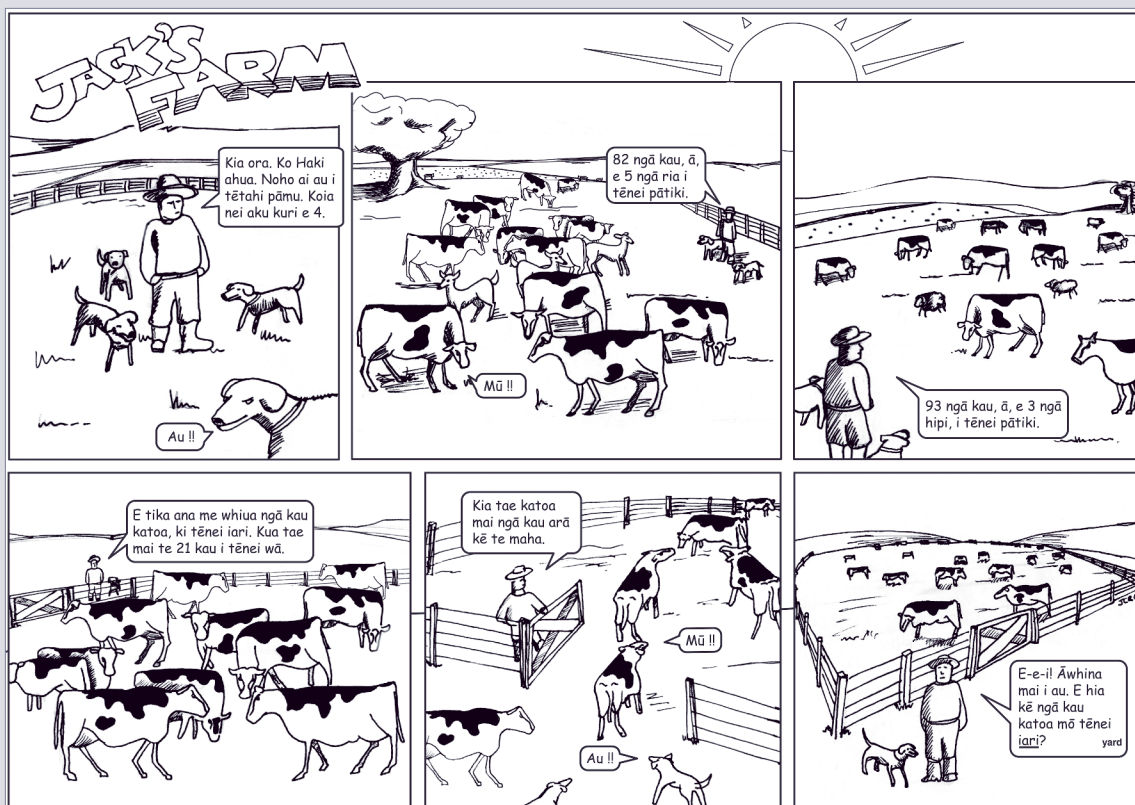
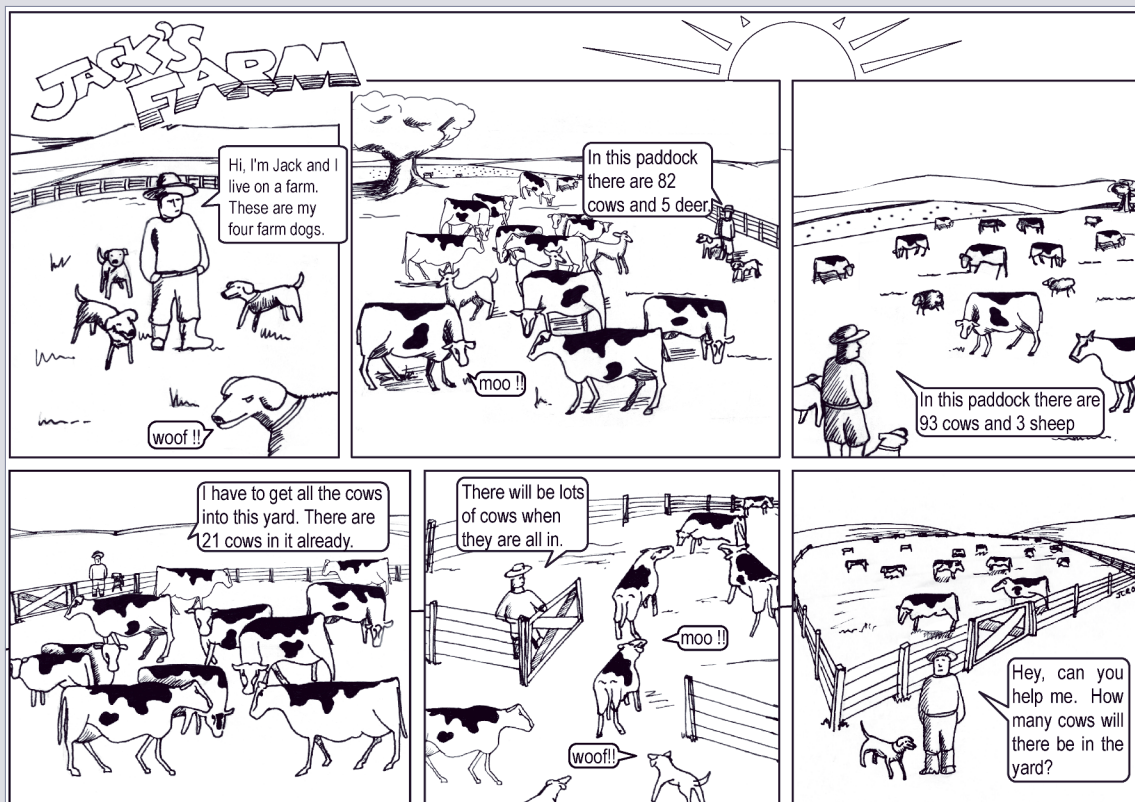




Ngā Kau a Haki — Jack's Cows

Approach: One to one

Focus: Analysing a task and adding.

Resources: Comic strip card, calculator, recording book.

Questions/instructions:	% responses	
	GE	MI
Place comic strip in front of student.		
Here is a maths problem about a farmer and his farm animals. It is written as a comic strip. Follow the words as I read it to you.		
Read comic strip to student.		
Whakatakotonga te waituhi whakakata i mua o te ākonga.		
Anei tētahi rapanga Pāngarau mō tētahi kaiahuwhenua me āna kararehe.		
I tuhia hei waituhi whakakata. Me whai haere i ngā kupu i ahau e pānui ana.		
Pānuitia te waituhi whakakata ki te ākonga.		
1. What is the farmer asking you to do?		
He aha te pātai a te kaipāmu ki a koe?		
find total number of cows (add up all the cows)	27	29
find how many cows will be in the yard	49	47
2. What information does he give you to work this out?		
He aha ngā mōhiotanga kua hoatu e ia ki te āwhina i a koe?		
the number of cows in each place	47	30
3. What information does he give you that you don't need for working out the answer?		
He aha ngā mōhiotanga kua hoatu e ia engari kāhore he take mō te āwhina i a koe ki te whakaoti pātai?		
The number of dogs, deer and sheep in various places		
all three	32	14
two of three	29	11
one of three	10	8
"other animals"	4	3

Commentary

The results achieved by Māori students in general education (GE) settings and students in Māori immersion (MI) settings were not statistically significantly different.

	% responses	
	GE	MI
The farmer wants to know how many cows there will be in the yard.		
Kei te hiahia te kaipāmu ki te mōhio e hia ngā kau ki roto i te <u>iari</u> [yard].		
4. How would you work out the answer?		
Ka pēhea tō whakaoti?		
add up the three numbers for cows	43	17
Give the student pencil, calculator, and recording sheet.		
Hoatu he pene rākau, he tātai me te pepa tuhinga ki te ākonga.		
5. Now try to work out the answer.		
You can use any of these things.		
Māu e whakaoti. Whakamahia ngā taputapu nei ki te āwhina i a koe.		
Adding numbers:		
using the calculator	42	73
using pencil/paper	49	22
mentally	8	5
6. What is the answer?		
He aha te otinga?		
correct	70	81