

Approach: Station

Year: 4 & 8

Focus: Recall basic facts

Resources: Computer program on laptop computer, answer booklet

### Questions / instructions:

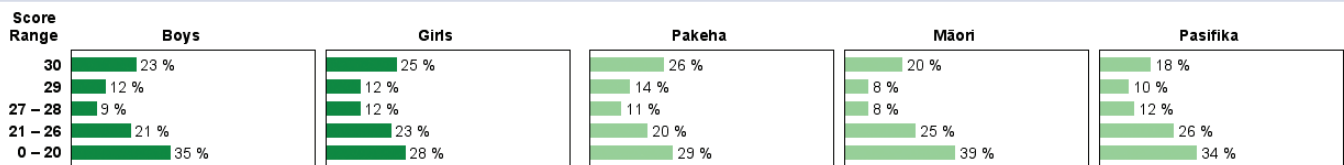
**This activity uses the computer.**

*[Problems were presented on a computer screen, with sound track, at four-second intervals. Students responded in answer booklets that showed each problem and had a blank for entering the response.]*

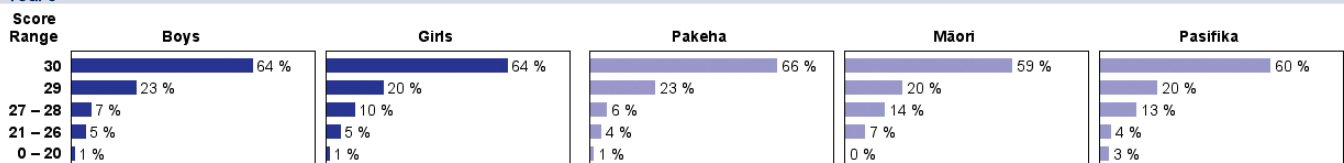
	Linked to 2005 & 2001		Linked to 2005 & 2001			
	% response 2009 ('05) ['01]		% response 2009 ('05) ['01]			
	year 4	year 8	year 4	year 8		
3 + 6 =	9	88 (85) [91]	99 (99) [99]	9 + 9 = 18	83 (79) [88]	97 (98) [99]
4 + 2 =	6	91 (87) [93]	98 (96) [95]	6 + 6 = 12	92 (87) [94]	99 (98) [99]
5 + 7 =	12	71 (72) [85]	96 (94) [97]	5 + 9 = 14	67 (66) [88]	98 (97) [98]
3 + 0 =	3	93 (93) [93]	99 (98) [97]	7 + 6 = 13	57 (61) [88]	96 (95) [97]
8 + 9 =	17	65 (63) [83]	96 (95) [97]	8 + 3 = 11	82 (80) [93]	97 (97) [98]
0 + 5 =	5	89 (87) [87]	97 (95) [95]	0 + 4 = 4	90 (86) [87]	98 (95) [96]
4 + 6 =	10	82 (78) [89]	98 (98) [98]	6 + 9 = 15	60 (60) [85]	96 (96) [98]
6 + 8 =	14	57 (58) [84]	94 (95) [97]	8 + 0 = 8	93 (90) [94]	99 (98) [96]
2 + 6 =	8	85 (85) [93]	99 (99) [98]	8 + 5 = 13	70 (68) [87]	97 (96) [97]
7 + 8 =	15	57 (56) [81]	93 (93) [98]	4 + 3 = 7	80 (76) [93]	97 (97) [99]
1 + 7 =	8	91 (91) [93]	97 (98) [99]	8 + 4 = 12	72 (70) [90]	97 (98) [99]
0 + 6 =	6	89 (88) [86]	97 (95) [96]	3 + 9 = 12	78 (76) [90]	98 (98) [99]
9 + 7 =	16	63 (61) [85]	97 (96) [98]	7 + 4 = 11	67 (66) [89]	98 (96) [97]
2 + 8 =	10	88 (89) [92]	99 (98) [99]	4 + 9 = 13	65 (68) [88]	97 (97) [99]
5 + 4 =	9	85 (85) [91]	98 (97) [98]	3 + 7 = 10	75 (74) [91]	98 (98) [99]
		<b>Total Score:</b>		30	24 (22) [43]	64 (64) [68]
				29	12 (12) [19]	22 (22) [19]
				27-28	10 (11) [15]	8 (7) [9]
				24-26	9 (14) [7]	5 (4) [3]
				21-23	13 (7) [6]	0 (1) [0]
				15-20	19 (18) [3]	1 (1) [1]
				0-14	13 (16) [7]	0 (1) [0]

### Subgroup Analyses:

Year 4



Year 8



### Commentary:

This task, focusing on knowledge of basic facts, was used previously in both 2001 and 2005. Both at year 4 and year 8 level, there was very little change in performance from 2005 to 2009, which means that the marked drop in performance for year 4 students from 2001 to 2005 had been maintained in 2009. That drop is particularly evident where neither number added is 0, 1 or 2, and the sum is more than 12. Pasifika students performed similarly to Pakeha students at both year levels, as did year 8 Māori students.