Trend Task: Division Facts

Approach:	Station
Focus:	Division facts
Resources:	Computer program on laptop computer, answer booklet

Year: 4 & 8

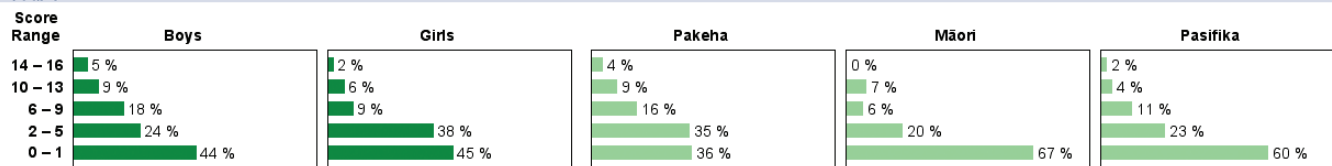### Questions / instructions:

This activity uses the computer.

[The problems were presented on the computer screen and soundtrack at eight-second intervals. The answer sheets did not show the problem again.]

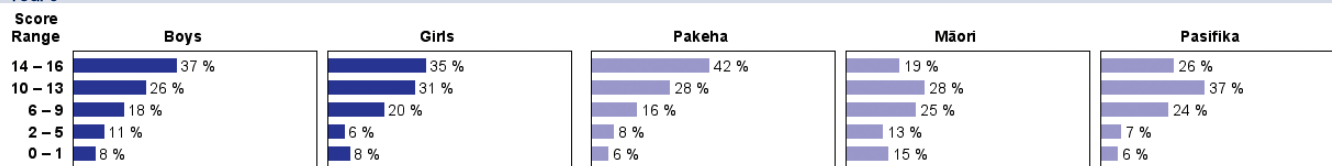If you cannot answer a question, put an "x" where you would write the answer.

	% response 2009 ('05)	
	year 4	year 8
1. $36 \div 6 = \boxed{6}$	23 (17)	76 (78)
2. $27 \div 3 = \boxed{9}$	15 (15)	65 (69)
3. $4 \div 4 = \boxed{1}$	40 (41)	83 (89)
4. $36 \div 9 = \boxed{4}$	19 (17)	73 (78)
5. $12 \div 3 = \boxed{4}$	36 (34)	84 (87)
6. $54 \div 6 = \boxed{9}$	15 (11)	59 (63)
7. $8 \div \boxed{8} = 1$	38 (35)	81 (84)
8. $42 \div \boxed{6} = 7$	17 (10)	67 (70)
9. $10 \div \boxed{5} = 2$	36 (39)	81 (81)
10. $32 \div \boxed{4} = 8$	15 (15)	65 (67)
11. $50 \div \boxed{5} = 10$	45 (46)	83 (90)
12. $21 \div \boxed{3} = 7$	27 (25)	77 (81)
13. $\boxed{25} \div 5 = 5$	8 (9)	41 (45)
14. $\boxed{8} \div 4 = 2$	11 (9)	47 (55)
15. $\boxed{48} \div 6 = 8$	2 (1)	34 (39)
16. $\boxed{63} \div 9 = 7$	5 (2)	45 (48)

Total Score:		% response 2009 ('05)	
		year 4	year 8
	14–16	3 (1)	36 (42)
	10–13	8 (8)	28 (26)
	6–9	14 (12)	19 (17)
	2–5	30 (35)	9 (12)
	0–1	45 (44)	8 (3)

Subgroup Analyses:

Year 4

Score Range	Boys	Girls	Pakeha	Māori	Pasifika
14 – 16	5 %	2 %	4 %	0 %	2 %
10 – 13	9 %	6 %	9 %	7 %	4 %
6 – 9	18 %	9 %	16 %	6 %	11 %
2 – 5	24 %	38 %	35 %	20 %	23 %
0 – 1	44 %	45 %	36 %	67 %	60 %

Year 8

Score Range	Boys	Girls	Pakeha	Māori	Pasifika
14 – 16	37 %	35 %	42 %	19 %	26 %
10 – 13	26 %	31 %	28 %	28 %	37 %
6 – 9	18 %	20 %	16 %	25 %	24 %
2 – 5	11 %	6 %	8 %	13 %	7 %
0 – 1	8 %	8 %	6 %	15 %	6 %

Commentary:

This task focused on quick recall or derivation of basic division facts. Between 2005 and 2009 there was little change in performance for year 4 students and a small reduction for year 8 students. Year 8 Pasifika students performed similarly to Pakeha students.