Trend Task: Fractious Fractions (Y8)

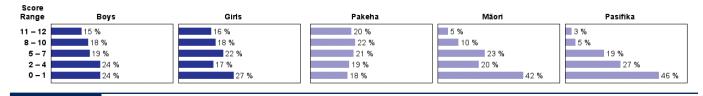
Approach:	One to one
Focus:	Fractions of an amount
Resources:	24 multilink blocks, 4 cards

Questions / instructions:	% response 2009 ('05)		% response 2009 ('05)
Hand students 24 multilink blocks and card 1. \sim	year 8		year 8
Here are 24 blocks.			
4		Hand student card 3. 56	
		3. What is $\frac{5}{6}$ of 24? 20	56 (59)
		Tell me how you worked this out. You can use the blocks if you want to.	
		Calculation strategy:	
		$24 \div 6 = 4$ and $5 \times 4 = 20$	22 (24)
		$6 \times 4 = 24$ and $5 \times 4 = 20$	12 (8)
		6 equal groups with blocks,	
1. What is $\frac{1}{4}$ of 24? 6	79 (85)	count 5 groups	17 (25)
Tell me how you worked this out. You can use the blocks if you want to.		any other appropriate strategy	5 (5)
Calculation strategy: $24 \div 4 = 6$ $4 \times 6 = 24$	26 (28) 20 (21)	Remove the blocks from the student but leave them in sight. $1\frac{1}{2}$ Hand student card 4.	
4 equal groups with blocks, count 1 group any other appropriate strategy	13 (16) 20 (18)	 If you had to find 1¹/₂ lots of these blocks, how many would you need? 36 	53 (48)
Hand student card 2. $\frac{2}{3}$		Tell me how you worked this out. You can use the blocks if you want to.	
2. What is $\frac{2}{3}$ of 24? 16	56 (51)	Calculation strategy: 24 ÷ 2 = 12 and 12 + 24 = 36; OR	
Tell me how you worked this out.		$\frac{1}{2} \times 24 = 12$ and $12 + 24 = 36$	46 (47)
You can use the blocks if you want to.		2 × 12 = 24 and 12 + 24 = 36	1 (0)
Calculation strategy: $24 \div 3 = 8$ and $2 \times 8 = 16$	24 (23)	found $\frac{1}{2}$ of 24 blocks, added to 24	4 (0)
$3 \times 8 = 24$ and $2 \times 8 = 16$	14 (8)		4 (4)
3 equal groups with blocks,		any other appropriate strategy	4 (4)
count 2 groups	14 (19)		
any other appropriate strategy	5 (3)	Total Score: 11–12	15 (11)
		8–10	18 (23)
		5–7	21 (19)
		2-4	20 (27)
		0–1	26 (20)

NEMP Access Task

Year:

8



Commentary:

There was no meaningful change in performance from 2005 to 2009. Both Māori and Pasifika students averaged substantially lower than Pakeha students.

Year 8

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