Fractions

Approach: Independent   *Level:* Year 4 and year 8
Focus: Calculations with fractions.
Resources: None.

Questions/instructions:

% responses

Instructions:
Write your answers in the white boxes.
You can use the shaded area to do your working.

			y4	y8
1.	$\frac{1}{4} + \frac{1}{4} =$	$\frac{1}{2}$	24	33
2.	$\frac{2}{3} + \frac{1}{3} =$	1	7	36
3.	$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} =$	$1\frac{1}{2}$	19	49
4.	$\frac{2}{4} + \frac{3}{4} =$	$1\frac{1}{4}$	•	40
5.	$\frac{1}{2} + \frac{1}{4} =$	$\frac{3}{4}$	•	44
6.	$\frac{3}{4} + 4 =$	$4\frac{3}{4}$	•	56
7.	$3\frac{1}{3} + 2\frac{1}{3} =$	$5\frac{2}{3}$	11	45
8.	$\frac{3}{4} - \frac{1}{4} =$	$\frac{1}{2}$	5	24
9.	$\frac{1}{2} - \frac{1}{4} =$	$\frac{1}{4}$	13	44
10.	$6 - \frac{1}{2} =$	$5\frac{1}{2}$	17	45
11.	$\frac{3}{4} - \frac{1}{2} =$	$\frac{1}{4}$	•	43
12.	$5 \times \frac{1}{2} =$	$2\frac{1}{2}$	•	39
13.	$\frac{2}{3} \times 3 =$	2	•	19
14.	$\frac{1}{4} \times \frac{1}{2} =$	$\frac{1}{8}$	•	25
15.	$2\frac{1}{4} \times 3 =$	$6\frac{3}{4}$	•	25
16.	$\frac{1}{2} \div 2 =$	$\frac{1}{4}$	•	23
17.	$6 \div \frac{1}{3} =$	18	•	10
18.	$1\frac{1}{2} \div \frac{1}{2} =$	3	•	24

• *not asked for year 4*

Commentary
The percentages recorded here are for getting the correct answer reduced to standard form (eg. 1/2 rather than 2/4). A few of the success rates would have been almost doubled if unsimplified correct answers had been included, but no more than 62 percent would have succeeded with any of the tasks.