## Working With 1,3,4,18

## Approach: Station

Level: Year 4 and year 8
Resources: 4 yellow number cards containing the numbers $1,3,4,18$;
3 each of cards containing symbols,+- .

## Questions/instructions

You have 6 minutes to do this activity. Start the timer now. Use the yellow and blue cards to make number sentences.

## RULES

1. Use each card only one time for each number sentence.
2. You don't have to use all of the cards for each number sentence.

Write your answers beside the numbers. The first one is done for you.

## \% responses

$\begin{array}{ll}y 4 & y 8\end{array}$

| $4-3=1$ | Number correct: 5 | 16 | 52 |
| :---: | :---: | :---: | :---: |
| $=2$ | 4 | 23 | 24 |
| = 3 | 3 | 17 | 10 |
| =4 | 2 | 15 | 4 |
| $=5$ | 1 | 13 | 4 |
| $=6$ | 0 | 16 | 6 |
| $=10$ | Number correct: 3 | 6 |  |
| $=11$ | 2 | 7 |  |
| $=12$ | 1 | 8 |  |
|  | 0 | 79 |  |

This time do not use the cards.

## RULES

1. You can use multiplication, division and/or fractions as well as addition and subtraction to make the number sentences.
2. Use the numbers $1,3,4$, and 18 .
3. Use as many different numbers for each number sentence as you can.

The second one is done for you.
\% responses
$y 8$
$=1 \quad$ correct
57
$>3$ elements
20
$(18 \div 3)-4=2$
correct55
$=3>3$ elements 20
correct 50
$=4>3$ elements 13
correct 48
$=5>3$ elements $\quad 22$
$=6 \quad$ correct
49
$>3$ elements 27

## Commentary

Year 4 students succeeded reasonably well where they did not need to use the number 18 . Year 8 students handled the initial task well, but only about 25 percent of them were able to accurately create complex responses to the second part.

