

## Bear mixes

Approach: Station

Level: Year 4 and year 8

Resources: 20 yellow bears, 20 blue bears.

Questions/instructions			% responses		
	Blue	Yellow	year 4	year 8	
Write the number of blue bears and yellow bears in the boxes. The first one has been done for you.					
1. There are 4 bears altogether. 2 are yellow. How many are blue?	2	2			
2. There are 10 bears altogether. 6 are yellow. How many are blue?		6	4	79	95
3. There are 10 bears altogether. There are 2 more blue bears than yellow bears. How many of each colour are there?			6 4	38 36	65 65
4. There are 12 bears altogether. There are twice as many yellow as blue bears. How many of each colour are there?			4 8	26 27	60 60
5. There are 3 blue bears. For each blue bear there are 3 yellow bears. How many yellow bears are there?	3		9	31	78
6. There are 15 yellow bears. For each blue bear there are 3 yellow bears. How many blue bears are there?		15	5	28	69
7. There are 16 bears altogether. For each blue bear there are 3 yellow bears. How many of each colour are there?			4 12	22 20	63 60
8. A quarter of the bears are blue. There are 3 blue bears. How many yellow bears are there?	3		9	14	42
9. A quarter of the bears are blue. There are 12 yellow bears. How many blue bears are there?		12	4	13	34
10. There are 20 bears altogether. A quarter of the bears are blue. How many of each colour are there?			5 15	27 25	71 68
11. There are 15 bears altogether. 20% are blue. How many of each colour are there?			3 12		33 32

### Commentary

Year 8 students struggled with three of the four items involving fractions and percentages. Year 4 students succeeded well with only one item, which involved a simple subtraction.