## 12 Bears

Year: 4 & 8

## Trend Task:

One to one

Understanding fractions Packet of 12 bears, recording book

Questions / instructions: % response 2005 ('01) year 4 year 8 Place 12 bears on the table. 1. Here are 12 bears. You can have half of them. Show me, and tell me, how many bears that is. Record student response. 6 97 (97) 99 (100) Place 12 bears on the table. 2. Here are the 12 bears again. This time you can have one third of them. Show me, and tell me, how many bears that is. Record student response. 73 (66) 4 38 (25) Place 12 bears on the table. Here are the 12 bears again. This time 3. you can have two thirds of them. Show me, and tell me, how many bears that is. Record student response. 21 (15) 65 (54) 8 Put the bears to the side. Imagine there were 20 bears, and you 4. could have one quarter of them. How many bears would that be? 5 51 (51) 88 (83) Record student response. 5. Imagine there were 20 bears, and you could have three guarters of them. How many bears would that be? 38 (42) 81 (73) Record student response. 15 Total score: 5 15 (10) 59 (48) 6 (5) 4 10 (10) 3 23 (29) 17 (22) 2 22 (19) 7 (10) 32 (35) 8 (10) 1 0 2 (2) 0 (0)

## Commentary:

Students at year 8 level showed a strong command of these concepts, whereas year 4 students had difficulty with all but the simplest components of the task. Large gains were seen from year 4 to year 8, with solid gains from 2001 to 2005.