## Trend Task: How Much Could It Hold?

Approach: Station Year: 4 & 8

Focus: Capacity estimation

Resources: 4 containers: milk bottle, yoghurt pottle, juice packet, medicine container; answer booklet

## Questions / instructions:

Here are four containers.

Write down how much each container holds using litres (L) or millilitres (ml).



- 1. How many mls of milk do you think the bottle could hold?
  - ✓ 800 1200 ml 22 (24) 48 (53) 1201 – 2000 ml 6 (5) 7 (6) more than 2 litres 10 (8) 0 (2) 500 to less than 800 ml 6 (2) 11 (6) less than 500 ml 42 (46) 24 (28)

year 4 year 8

2. How much yoghurt do you think the pottle could hold?

old?		
✓ 120–180 ml	2 (1)	17 (16
181–300 ml	5 (3)	16 (21
more than 300 ml	18 (17)	6 (7)
75–119 ml	7 (6)	14 (14
less than 75 ml	42 (52)	26 (27

- 3. How much juice do you think the packet [juice box] could hold?
  - ✓ 200–300 ml
     9 (7)
     40 (46)

     301–500 ml
     7 (4)
     12 (12)

     more than 500 ml
     13 (16)
     5 (6)

     125–199 ml
     2 (2)
     6 (6)

     less than 125ml
     46 (51)
     22 (21)

year 4

year 8

4. How much medicine do you think the container could hold?

ld hold?		
<b>√</b> 40–60ml	10 (7)	26 (24)
61-100ml	6 (5)	15 (18)
more than 100ml	15 (15)	9 (13)
25-39ml	3 (4)	8 (8)
less than 25ml	38 (47)	19 (21)

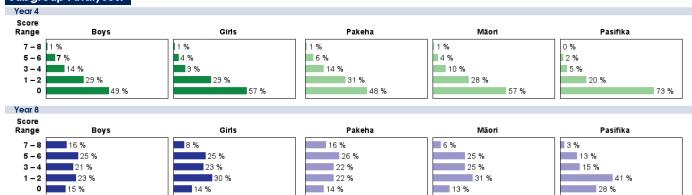
Total Score:

7–8 1 (1) 12 (15) 5–6 5 (4) 25 (26) 3–4 12 (8) 22 (24) 1–2 29 (31) 26 (18)

53 (56)

15 (17)

Subgroup Analyses:



## Commentary:

The volume estimates on this task were handled poorly, with about half of year 4 students and one quarter of year 8 students estimating more than double or less than half of the actual capacity of the containers. At both levels, students performed very similarly in 2005 and 2009.