

## Trend Task: Addition (Y8)

Approach: Independent  
Focus: Adding without a calculator  
Resources: Answer booklet

Year: 8

### Questions / instructions:

Work out the answers to the addition questions. Show how you work out your answers.

1.  $4 + 2 + 9 + 5 + 3 =$  23 correct  
incorrect with clear computational error  
incorrect/any other response

**Working used:** horizontal algorithm  
vertical algorithm

2.  $21 + 54 =$  75 correct  
incorrect with clear computational error  
incorrect/any other response

**Working used:** horizontal algorithm  
vertical algorithm

3.  $76 + 48 =$  124 correct  
incorrect with clear computational error  
incorrect/any other response

**Working used:** horizontal algorithm  
vertical algorithm

4.  $389 + 217 =$  606 correct  
incorrect with clear computational error  
incorrect/any other response

**Working used:** horizontal algorithm  
vertical algorithm

5.  $49 + 103 + 51 + 97 + 260 =$  560 correct  
incorrect with clear computational error  
incorrect/any other response

**Working used:** horizontal algorithm  
vertical algorithm

% response  
2009 ('05)

year 8

90 (85)

4 (5)

6 (10)

49 (44)

5 (13)

95 (95)

2 (1)

3 (4)

37 (23)

18 (32)

82 (80)

5 (5)

13 (15)

36 (22)

21 (35)

77 (78)

7 (5)

16 (17)

35 (20)

26 (40)

60 (62)

15 (12)

25 (26)

39 (23)

25 (39)

**Total Score:** 10

8–9

6–7

4–5

0–3

% response  
2009 ('05)

year 8

38 (43)

42 (34)

14 (13)

5 (6)

1 (4)

### Subgroup Analyses:

Year 8

Score

Range

Boys

Girls

Pakeha

Māori

Pasifika

10

38 %

37 %

39 %

30 %

43 %

8–9

42 %

43 %

41 %

44 %

47 %

6–7

12 %

15 %

15 %

12 %

10 %

4–5

7 %

3 %

3 %

13 %

0 %

0–3

1 %

2 %

2 %

1 %

0 %

### Commentary:

This task is notable for the high performance of Pasifika students. Overall, performance in 2009 is very similar to performance in 2005.