

# Trend Task: Algorithms (Division)

Approach: Independent

Year: 4 & 8

Focus: Dividing without a calculator

Resources: Answer booklet

## Questions / instructions:

Write your answers in the white boxes.  
You can use the shaded area to do your working.

1.  $6 \div 2 =$

3 67 (62) 95 (92)

2.  $3 \overline{) 9}$

3 50 (50) 90 (92)

3.  $12 \div 4 =$

3 53 (53) 91 (90)

4.  $7 \overline{) 21}$

3 38 (36) 88 (89)

5.  $3 \overline{) 135}$

45 6 (6) 45 (55)

6.  $5 \overline{) 8}$

1.6 0 (0) 9 (13)  
1 r 3 6 (10) 49 (57)

## YEAR 8 ONLY:

7.  $3 \overline{) 14}$

4.6 or 4.7 only • 8 (12)  
4 r 2 • 49 (52)

8.  $8 \overline{) 26}$

3.2 • 14 (16)  
3 r 2 • 44 (45)

9.  $7 \overline{) 83}$

11.8 or 11.9 only • 7 (11)  
11 r 6 • 40 (39)

10.  $6 \overline{) 7208}$

1201.3 • 9 (13)  
1201 r 2 • 26 (34)

<b>Total score:</b>	14–15	•	4 (5)	
	12–13	•	3 (4)	
	10–11	•	14 (21)	
	8–9	•	27 (28)	
	6–7	1 (3)	19 (18)	
	4–5	31 (29)	19 (13)	
	2–3	28 (27)	11 (8)	
	0–1	40 (41)	3 (5)	
	<i>[Note: Maximum score of 7 for year 4]</i>			

## Commentary:

Students at year 4 level had difficulty with division, especially with remainders. Year 8 students had mastered the basics but had problems with division with remainders. Performance at year 4 level was similar between 2001 and 2005. Performance at year 8 level has declined somewhat.