Year 6 Extension Arithmetic Test 2

testbase

1	494,009 + 10,000 + 10,000 =	1 mark
2	$0.9 = \frac{?}{100}$	1 mark
3	567,621 + 7,091 =	1 mark
4	7,082 × 9 =	1 mark
5	500,679 − 299,735	1 mark
6	? + 30,500 = 80,400	1 mark
7	7,643 ÷ 9 =	1 mark
8	3,600 ÷ 4 =	1 mark

9	−8 − 5 =	1 mark
10	36 + 22 × 4 =	1 mark
11	60 × 90 − 80 =	1 mark
12	48,000 ÷ 80 =	1 mark
13	91.37 × 6	1 mark
14	94.37 + 8.184 =	1 mark
15	99,999 + 50 =	1 mark
16	30 × 110 =	1 mark

17	$3^2 + 2^3 + 5^2 =$	1 mark
18	840,000 − 48,000 =	1 mark
19	60 × 900 =	1 mark
20	300.01 × 1000 =	1 mark
21	34.6 ÷ 100 =	1 mark
22	523.56 − 45.056 =	1 mark
23	$\begin{array}{r} 957 \\ \times\ 86 \\ \hline \end{array}$	2 marks
24	$34\% = \frac{?}{50}$	1 mark

25	$100 - 26 \div 2 + 8 =$	1 mark
26	76% of 60 =	1 mark
27	$76.2 \div 5 =$	1 mark
28	$0.4 \times 11 =$	1 mark
29	$\frac{5}{6} + \frac{7}{12} =$	1 mark
30	$\begin{array}{r} 2{,}971 \\ \times \quad 38 \\ \hline \end{array}$	2 marks
31	$\frac{5}{8} \times 12 =$	1 mark
32	$42\overline{)5675} =$	2 marks

33	$\frac{3}{5} \times \frac{4}{5} =$	1 mark
34	$\frac{7}{6} \div 2 =$	1 mark
35	$\frac{3}{4} - \frac{3}{10} =$	1 mark
36	$2\frac{1}{3} \times 3 =$	1 mark
37	$3\frac{5}{6} - 1\frac{1}{4} =$	1 mark

Mark scheme

1. 514,009 **[1]**

2. $\frac{90}{100}$ **[1]**

3. 574,712 **[1]**

4. 63,738 **[1]**

5. 200,944 **[1]**

6. 49,900 **[1]**

7. 849 rem 2 or equivalent **[1]**

e.g. $849\frac{2}{9}$

8. 900 **[1]**

9. −13 **[1]**

10. 124 **[1]**

11. 5,320 **[1]**

12. 600 **[1]**

13. 548.22 **[1]**

14. 102.554 **[1]**

15. 100,049 **[1]**

16. 3,300 **[1]**

17. 42 **[1]**

18. 792,000 **[1]**

19. 54,000 **[1]**

20. 300,010 **[1]**

21. 0.346 **[1]**

22. 478.504 **[1]**

23. *For 2 marks*: 82,302 **[2]**

For 1 mark:

$$\begin{array}{r} 957 \\ \times\ 86 \\ \hline 5742 \\ \\ \underline{76560} \\ 82302 \end{array}$$

An error in one *row, then added correctly,* ***or*** *an error in the addition*

24. $\frac{17}{50}$ **[1]**

25. 95 **[1]**

26. 45.6 **[1]**

27. 15.24 **[1]**

28. 4.4 **[1]**

29. $1\frac{5}{12}$ or equivalent **[1]**

e.g. $\frac{17}{12}$

30. *For 2 marks*: 112,898 **[2]**

For 1 mark:

$$\begin{array}{r} 2971 \\ \times \quad 38 \\ \hline 23768 \\ \\ 89130 \\ \hline 112898 \end{array}$$

An error in one *row, then added correctly,* ***or*** *an error in the addition*

31. $7\frac{1}{2}$ or equivalent **[1]**

e.g. $\frac{60}{8}$

Do not *accept unconventional mixed numbers e.g.* $6\frac{12}{8}$

32. *For 2 marks*: **[2]**

135 rem 5 or equivalent

For 1 mark:

Evidence of either long division or short division method with only one error (carry figures must be seen in a short division method).

33. $\frac{12}{25}$ or equivalent **[1]**

34. $\frac{7}{12}$ or equivalent **[1]**

35. $\frac{9}{20}$ **[1]**

36. 7 or equivalent **[1]**

e.g. $\frac{21}{3}$

Do not *accept unconventional mixed numbers e.g.* $6\frac{3}{3}$

37. $2\frac{7}{12}$ or equivalent **[1]**

e.g. $\frac{31}{12}$

Do not *accept unconventional mixed numbers e.g.* $1\frac{19}{12}$