Year 6 Extension Arithmetic Test 2

1	494,009 + 10,000 + 10,000 =		1 mark

2	$0.9 = \dfrac{?}{100}$		1 mark

3	567,621 + 7,091 =		1 mark

4	7,082 × 9 =		1 mark

5	$\begin{array}{r} 500,679 \\ -\ 299,735 \\ \hline \end{array}$		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	$60 \times 900 =$		1 mark
20	$300.01 \times 1000 =$		1 mark
21	$34.6 \div 100 =$		1 mark
22	$523.56 - 45.056 =$		1 mark
23	$\begin{array}{r} 957 \\ \times \quad 86 \\ \hline \end{array}$		2 marks
24	$34\% = \dfrac{?}{50}$		1 mark

testbase

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	$\dfrac{5}{6} + \dfrac{7}{12} =$		1 mark
30	$\begin{array}{r} 2{,}971 \\ \times \quad 38 \\ \hline \end{array}$		2 marks
31	$\dfrac{5}{8} \times 12 =$		1 mark
32	$42\overline{)5675} =$		2 marks

testbase

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

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Mark scheme

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

2. $\dfrac{90}{100}$ **[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. $849\dfrac{2}{9}$

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:

```
        957
  ×      86
       5742

      76560
      82302
```

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

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

25. 95 **[1]**

26. 45.6 **[1]**

27. 15.24 **[1]**

28. 4.4 **[1]**

29. $1\dfrac{5}{12}$ or equivalent **[1]**
e.g. $\dfrac{17}{12}$

testbase

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

For 1 mark:

```
      2971
  ×     38
     23768

    89130
   112898
```

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.* $1\frac{19}{12}$