Year 6 Extension Arithmetic Test 9

testbase

1	210,100 − 10,000 − 10,000 =	1 mark
2	− 20 + 17 =	1 mark
3	333,333 + 8,888 =	1 mark
4	3,621 × 6 =	1 mark
5	804,307 − 266,690	1 mark
6	250,000 − ? = 200,500	1 mark
7	9,727 ÷ 4 =	1 mark
8	24,000 ÷ 4=	1 mark

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9	230,000 + 90,000 =	1 mark
10	100,000 − 9 =	1 mark
11	700 × 70 =	1 mark
12	72,000 ÷ 900 =	1 mark
13	$12^2 + 7^2 - 5^3$ =	1 mark
14	2.8 ÷ 100 =	1 mark
15	345 − 30 × 4 =	1 mark
16	3,200 ÷ 8 + 120 =	1 mark

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17	80 × 70 × 20 =	1 mark
18	88.51 × 1000 =	1 mark
19	0.3 = ?%	1 mark
20	65.71 + 1.296 =	1 mark
21	$\begin{array}{r} 93.59 \\ \times \quad 7 \\ \hline \end{array}$	1 mark
22	$0.8 = \frac{?}{25}$	1 mark
23	0.07 × 8 =	1 mark
24	$\begin{array}{r} 974 \\ \times \quad 68 \\ \hline \end{array}$	2 marks

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25	$3 + 7 \times 9 - 17 =$	1 mark
26	$524.1 - 8.508 =$	1 mark
27	$\frac{4}{5} \div 2 =$	1 mark
28	$98.52 \div 4 =$	1 mark
29	$\begin{array}{r} 2806 \\ \times \quad 79 \\ \hline \end{array}$	2 marks
30	$\frac{3}{4} - \frac{5}{8} =$	1 mark
31	71% of 80 =	1 mark
32	$25\overline{)8615} =$	2 marks

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33	$\frac{3}{8} \times 7 =$	1 mark
34	$\frac{3}{7} \times \frac{4}{5} =$	1 mark
35	$\frac{2}{3} + \frac{4}{5} =$	1 mark
36	$4\frac{3}{8} - 1\frac{1}{2} =$	1 mark
37	$3\frac{5}{6} \times 7 =$	1 mark

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Mark scheme

1. 190,100 **[1]**

2. −3 **[1]**

3. 342,221 **[1]**

4. 21,726 **[1]**

5. 537,617 **[1]**

6. 49,500 **[1]**

7. 2,431 r3 or equivalent e.g. 2,431.75 **[1]**

8. 6,000 **[1]**

9. 320,000 **[1]**

10. 99,991 **[1]**

11. 49,000 **[1]**

12. 80 **[1]**

13. 68 **[1]**

14. 0.028 **[1]**

15. 225 **[1]**

16. 520 **[1]**

17. 112,000 **[1]**

18. 88,510 **[1]**

19. 30% **[1]**

20. 67.006 **[1]**

21. 655.13 **[1]**

22. $\frac{20}{25}$ **[1]**

23. 0.56 **[1]**

24. *For 2 marks*: 66,232 **[2]**

For 1 mark:

$$\begin{array}{r} 974 \\ \times \quad 68 \\ \hline 7792 \\ \\ \underline{58440} \\ 66232 \end{array}$$

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

25. 49 **[1]**

26. 515.592 **[1]**

27. $\frac{2}{5}$ or equivalent **[1]**

28. 24.63 **[1]**

29. *For 2 marks*: 221,674 **[2]**

For 1 mark:

$$\begin{array}{r} 2806 \\ \times \quad 79 \\ \hline 25254 \\ \\ \underline{196420} \\ 221674 \end{array}$$

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

30. $\frac{1}{8}$ or equivalent **[1]**

31. 56.8 **[1]**

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

344 rem 15 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. $2\frac{5}{8}$ or equivalent **[1]**

e.g. $\frac{21}{8}$

34. $\frac{12}{35}$ or equivalent **[1]**

35. $1\frac{7}{15}$ or equivalent **[1]**

e.g. $\frac{22}{15}$

36. $2\frac{7}{8}$ or equivalent **[1]**

e.g. $\frac{23}{8}$

Do not *accept unconventional mixed numbers e.g.* $1\frac{15}{8}$

37. $26\frac{5}{6}$ or equivalent **[1]**

e.g. $\frac{161}{6}$

Do not *accept unconventional mixed numbers e.g.* $21\frac{35}{6}$

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