Year 6 Extension Arithmetic Test 6

testbase

1	−9 + 15 =	1 mark
2	301,900 − 1,000 − 1,000 =	1 mark
3	888,777 + 55,555 =	1 mark
4	780,003 − 279,154	1 mark
5	3092 × 7	1 mark
6	? + 58,100 = 63,000	1 mark
7	6,789 ÷ 7 =	1 mark
8	40 × 800 =	1 mark

9	440,000 + 95,000 =	1 mark
10	9,900 − 2 =	1 mark
11	50 × 120 =	1 mark
12	32,000 ÷ 80 =	1 mark
13	50 + 20 × 33 =	1 mark
14	3,600 ÷ 4 + 90 =	1 mark
15	5,869.1 × 100 =	1 mark
16	48,000 ÷ 400 =	1 mark

17	$1^3 + 9^2 - 3^2 =$	1 mark
18	$45.6 \div 1000 =$	1 mark
19	$0.03 \times 7 =$	1 mark
20	$178.6 + 1.512 =$	1 mark
21	$\begin{array}{r} 93.78 \\ \times \quad 5 \\ \hline \end{array}$	1 mark
22	$\frac{1}{8} \times \frac{1}{6} =$	1 mark
23	$\frac{3}{4} - \frac{5}{12} =$	1 mark
24	$40 - 36 \div 3 + 5 =$	1 mark

25	$385.1 - 8.112 =$	1 mark
26	$\begin{array}{r} 497 \\ \times\ 83 \\ \hline \end{array}$	2 marks
27	$0.2 = \frac{?}{50}$	1 mark
28	$12\% = \frac{?}{25}$	1 mark
29	$\frac{5}{6} \times 8 =$	1 mark
30	$\begin{array}{r} 1{,}298 \\ \times\ 47 \\ \hline \end{array}$	2 marks
31	$98.8 \div 8 =$	1 mark
32	34% of 460 =	1 mark

33	$\frac{1}{5} \div 2 =$	1 mark
34	$\frac{2}{3} + \frac{3}{4} =$	1 mark
35	$34\overline{)5869} =$	2 marks
36	$3\frac{5}{6} \times 4 =$	1 mark
37	$6\frac{1}{6} - 2\frac{1}{7} =$	1 mark

Mark scheme

1. 6 **[1]**

2. 299,900 **[1]**

3. 944,332 **[1]**

4. 500,849 **[1]**

5. 21,644 **[1]**

6. 4,900 **[1]**

7. 969 rem 6 or equivalent **[1]**

e.g. $969\frac{6}{7}$

8. 32,000 **[1]**

9. 535,000 **[1]**

10. 9,898 **[1]**

11. 6,000 **[1]**

12. 400 **[1]**

13. 710 **[1]**

14. 990 **[1]**

15. 586,910 **[1]**

16. 120 **[1]**

17. 73 **[1]**

18. 0.0456 **[1]**

19. 0.21 **[1]**

20. 180.112 **[1]**

21. 468.9 **[1]**

22. $\frac{1}{48}$ **[1]**

23. $\frac{1}{3}$ or equivalent **[1]**

e.g. $\frac{4}{12}$

24. 33 **[1]**

25. 376.988 **[1]**

26. *For 2 marks*: 41,251 **[2]**

For 1 mark:

$$\begin{array}{r} 497 \\ \times\ 83 \\ \hline 1491 \\ \underline{39760} \\ 41251 \end{array}$$

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

27. $\frac{10}{50}$ **[1]**

28. $\frac{3}{25}$ **[1]**

29. $6\frac{2}{3}$ or equivalent **[1]**

e.g. $\frac{40}{6}$, $6\frac{4}{6}$

30. *For 2 marks*: 61,006 **[2]**

For 1 mark:

$$\begin{array}{r} 1298 \\ \times\ 47 \\ \hline 9086 \\ \underline{51920} \\ 61006 \end{array}$$

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

31. 12.35 **[1]**

32. 156.4 **[1]**

33. $\frac{1}{10}$ or equivalent **[1]**

34. $1\frac{5}{12}$ or equivalent **[1]**

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

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

172 rem 21 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).

36. $15\frac{1}{3}$ or equivalent **[1]**

e.g. $15\frac{2}{6}$

Do not *accept unconventional mixed numbers e.g.* $12\frac{20}{6}$

37. $4\frac{1}{42}$ or equivalent **[1]**

Do not *accept unconventional mixed numbers e.g.* $3\frac{43}{42}$