Year 6 Extension Arithmetic Test 8

testbase

1	198,116 + 378,999	1 mark
2	900,900 − 10,000 − 10,000 =	1 mark
3	−15 − 6 =	1 mark
4	3,683 × 5 =	1 mark
5	812,392 − 98,505 =	1 mark
6	? + 25,100 = 40,050	1 mark
7	4,555 ÷ 6 =	1 mark
8	$3^3 + 7^2 - 4^2 =$	1 mark

9	0.06 × 7 =	1 mark
10	$0.71 = \frac{?}{1000}$	1 mark
11	260,000 + 75 000 =	1 mark
12	20,001 − 4 =	1 mark
13	70 × 800 =	1 mark
14	24,000 ÷ 30 =	1 mark
15	3,200 ÷ 40 + 400 =	1 mark
16	28.6 × 100 =	1 mark

17	20 + 25 × 40 =	1 mark
18	$\frac{1}{6} \times \frac{1}{3} =$	1 mark
19	8 × 60 × 20=	1 mark
20	42,000 ÷ 600 =	1 mark
21	33.1 ÷ 1000 =	1 mark
22	678 × 94	2 marks
23	36.88 + 4.123 =	1 mark
24	9.784 × 3	1 mark

25	$60 - 48 \div 4 + 6 =$	1 mark
26	$782.4 - 3.735 =$	1 mark
27	$0.625 = ?\%$	1 mark
28	35% of 98 =	1 mark
29	$\begin{array}{r} 1609 \\ \times \quad 78 \\ \hline \end{array}$	2 marks
30	$\frac{19}{20} - \frac{4}{5} =$	1 mark
31	$\frac{1}{6} \div 2 =$	1 mark
32	$\frac{4}{5} \times 7 =$	1 mark

33	$87.6 \div 6 =$	1 mark
34	$1\frac{6}{7} \times 5 =$	1 mark
35	$\frac{2}{5} + \frac{11}{12} =$	1 mark
36	$19\overline{)2248} =$	2 marks
37	$2\frac{2}{9} + 3\frac{5}{8} =$	1 mark

Mark scheme

1. 577,115 **[1]**

2. 880,900 **[1]**

3. −21 **[1]**

4. 18,415 **[1]**

5. 713,887 **[1]**

6. 14,950 **[1]**

7. 759 rem 1 or equivalent **[1]**

e.g. $759\frac{1}{6}$

8. 60 **[1]**

9. 0.42 **[1]**

10. $\frac{710}{1000}$ **[1]**

11. 335,000 **[1]**

12. 19,997 **[1]**

13. 56,000 **[1]**

14. 800 **[1]**

15. 480 **[1]**

16. 2,860 **[1]**

17. 1,020 **[1]**

18. $\frac{1}{18}$ **[1]**

19. 9,600 **[1]**

20. 70 **[1]**

21. 0.0331 **[1]**

22. *For 2 marks*: 63,732 **[2]**

For 1 mark:

678
× 94
2712

61020
63732

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

23. 41.003 **[1]**

24. 29.352 **[1]**

25. 54 **[1]**

26. 778.665 **[1]**

27. 62.5% **[1]**

28. 34.3 **[1]**

29. *For 2 marks*: 125,502 **[2]**

For 1 mark:

1609
× 78
12872

112630
125502

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

30. $\frac{3}{20}$ or equivalent **[1]**

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

32. $5\frac{3}{5}$ or equivalent **[1]**

e.g. $\frac{28}{5}$

33. 14.6 **[1]**

34. $9\frac{2}{7}$ or equivalent **[1]**

e.g. $\frac{65}{7}$

Do not *accept unconventional mixed numbers e.g.* $5\frac{30}{7}$

35. $1\frac{19}{60}$ or equivalent **[1]**

e.g. $\frac{79}{60}$

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

118 rem 6 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).

37. $5\frac{61}{72}$ or equivalent **[1]**

Do not *accept unconventional mixed numbers*