Year 6 Extension Arithmetic Test 7

testbase

1	13 − 17 =		1 mark

2	804,456 + 298,792		1 mark

3	601,600 − 1,000 − 1,000 =		1 mark

4	801,821 − 16,927 =		1 mark

5	1,993 × 6		1 mark

6	300,001 − ? = 200,002		1 mark

7	8,954 ÷ 6 =		1 mark

8	360 − 50 × 7 =		1 mark

testbase

9	300 × 70 =		1 mark

10	36,000 ÷ 9 =		1 mark

11	10,000 − 30 =		1 mark

12	$9^2 + 8^2 - 3^3 =$		1 mark

13	120 × 400 =		1 mark

14	15,000 ÷ 500 =		1 mark

15	3,600 ÷ 9 + 40 =		1 mark

16	8.079 × 6		1 mark

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17	560,000 + 450,000 =		1 mark
18	9.3 ÷ 100 =		1 mark
19	4,560.05 × 1000 =		1 mark
20	291.6 + 1.994 =		1 mark
21	460.405 − 9.5 =		1 mark
22	2 + 7 × 7 − 10 =		1 mark
23	$\begin{array}{r} 568 \\ \times\ \ 92 \\ \hline \end{array}$		2 marks
24	$\dfrac{2}{3} - \dfrac{5}{12} =$		1 mark

25	$\dfrac{2}{5} \div 2 =$		1 mark
26	$0.1 = \dfrac{?}{50}$		1 mark
27	$0.04 \times 12 =$		1 mark
28	$\begin{array}{r} 1782 \\ \times \quad 68 \\ \hline \end{array}$		2 marks
29	$37.2 \div 6 =$		1 mark
30	$96\% = \dfrac{?}{25}$		1 mark
31	55% of 46 =		1 mark
32	$44\overline{)5715} =$		2 marks

33	$\dfrac{2}{5} + \dfrac{5}{9} =$		1 mark
34	$\dfrac{3}{4} \times \dfrac{6}{7} =$		1 mark
35	$3\dfrac{1}{2} + 1\dfrac{7}{9} =$		1 mark
36	$\dfrac{4}{5} \times 8 =$		1 mark
37	$2\dfrac{4}{7} \times 3 =$		1 mark

Mark scheme

1. −4 **[1]**

2. 1,103,248 **[1]**

3. 599,600 **[1]**

4. 784,894 **[1]**

5. 11,958 **[1]**

6. 99,999 **[1]**

7. 1,492 r2 or equivalent **[1]**

e.g. 1,492.$\dot{3}$

8. 10 **[1]**

9. 21,000 **[1]**

10. 4,000 **[1]**

11. 9,970 **[1]**

12. 118 **[1]**

13. 48,000 **[1]**

14. 30 **[1]**

15. 440 **[1]**

16. 48.474 **[1]**

17. 1,010,000 **[1]**

18. 0.093 **[1]**

19. 4,560,050 **[1]**

20. 293.594 **[1]**

21. 450.905 **[1]**

22. 41 **[1]**

23. *For 2 marks*: 52,256 **[2]**

For 1 mark:

$$\begin{array}{r} 568 \\ \times\ \ 92 \\ \hline 1136 \\ 51120 \\ \hline 52256 \end{array}$$

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

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

e.g. $\frac{3}{12}$

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

26. $\frac{5}{50}$ **[1]**

27. 0.48 **[1]**

28. *For 2 marks*: 121,176 **[2]**

For 1 mark:

$$\begin{array}{r} 1782 \\ \times\ \ 68 \\ \hline 14256 \\ 106920 \\ \hline 121176 \end{array}$$

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

29. 6.2 **[1]**

30. $\frac{24}{25}$ **[1]**

31. 25.3 **[1]**

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

129 rem 39 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. $\dfrac{43}{45}$ or equivalent **[1]**

34. $\dfrac{9}{14}$ or equivalent **[1]**

e.g. $\dfrac{18}{28}$

35. $5\dfrac{5}{18}$ or equivalent **[1]**

e.g. $\dfrac{95}{18}$

Do not accept unconventional mixed numbers e.g. $4\dfrac{23}{18}$

36. $6\dfrac{2}{5}$ or equivalent **[1]**

e.g. $\dfrac{32}{5}$

Do not accept unconventional mixed numbers e.g. $5\dfrac{7}{5}$

37. $7\dfrac{5}{7}$ or equivalent **[1]**

e.g. $\dfrac{54}{7}$

Do not accept unconventional mixed numbers e.g. $6\dfrac{12}{7}$