# Year 6 Extension Arithmetic Test 8

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| | | |
|---|---|---|
| 1 | 198,116<br>+ 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 |

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| | | |
|---|---|---|
| 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 |

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| | | |
|---|---|---|
| **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<br>× 94 | 2 marks |
| **23** | 36.88 + 4.123 = | 1 mark |
| **24** | 9.784<br>× 3 | 1 mark |

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| | | |
|---|---|---|
| **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 |

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| | | |
|---|---|---|
| **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 |

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**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. $\frac{28}{5}$

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**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*

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