

Year 6 Paper 1: Arithmetic Mark Scheme

| Qu | Requirement | Mark | Additional guidance |
|----|-----------------|------|--|
| 1 | 831 | 1m | |
| 2 | 315 | 1m | |
| 3 | $\frac{7}{9}$ | 1m | Accept equivalent fractions or the exact decimal equivalent, e.g. $\frac{63}{81}$ or $0.\dot{7}$ (accept any unambiguous indication of the recurring digits). Do not accept rounded or truncated decimals. |
| 4 | 0 | 1m | |
| 5 | 150 | 1m | |
| 6 | 12 | 1m | |
| 7 | 137.07 | 1m | |
| 8 | 29 | 1m | |
| 9 | 7,909 | 1m | |
| 10 | 90 | 1m | |
| 11 | 300 | 1m | |
| 12 | 987 | 1m | |
| 13 | 8.1 | 1m | |
| 14 | 4,000 | 1m | |
| 15 | 70 | 1m | |
| 16 | 9,055 | 1m | |
| 17 | $\frac{11}{15}$ | 1m | Accept equivalent fractions or the exact decimal equivalent, e.g. $\frac{55}{75}$ or $0.7\dot{3}$ (accept any unambiguous indication of the recurring digits). Do not accept rounded or truncated decimals. |
| 18 | 1,200 | 1m | |
| 19 | 510 | 1m | Do not accept 510% |
| 20 | 0.0024 | 1m | |

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|----|---|----------|---|
| 21 | <p>Award TWO marks for the correct answer of 17,986</p> <p>If the answer is incorrect, award ONE mark for the formal method of long multiplication with no more than ONE arithmetic error, e.g.</p> $\begin{array}{r} 529 \\ \times 34 \\ \hline 2116 \\ 15870 \\ \hline 17976 \text{ (error)} \end{array}$ <p>OR</p> $\begin{array}{r} 529 \\ \times 34 \\ \hline 2106 \text{ (error)} \\ 15870 \\ \hline 17976 \end{array}$ | Up to 2m | <p>Working must be carried through to reach a final answer for the award of ONE mark.</p> <p>Do not award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by the tens.</p> $\begin{array}{r} 529 \\ \times 34 \\ \hline 2116 \\ 1587 \text{ (place value error)} \\ \hline 3703 \end{array}$ |
| 22 | <p>Award TWO marks for a correct answer of 17.</p> <p>If the answer is incorrect, award ONE mark for the formal methods of division with no more than ONE arithmetic error, e.g.</p> <p>Long division, e.g.</p> $\begin{array}{r} 17 \text{ r } 2 \\ 32 \overline{) 544} \\ - 32 \\ \hline 224 \\ - 222 \text{ (error)} \\ \hline 2 \end{array} \quad \text{OR} \quad \begin{array}{r} 18 \text{ (error)} \\ 32 \overline{) 544} \\ - 32 \\ \hline 224 \\ - 224 \\ \hline 0 \end{array}$ <p>Short division, e.g.</p> $32 \overline{) 54} 224 \quad 1 \text{ } 8 \text{ (error)}$ | Up to 2m | <p>Working must be carried through to reach a final answer for the award of ONE mark.</p> <p>Short division methods must be supported by evidence of appropriate carrying figures to indicate the use of a division algorithm and be a complete method.</p> <p>The carrying figure must be less than the divisor.</p> |
| 23 | $\frac{11}{12}$ | 1m | <p>Accept equivalent fractions or the exact decimal equivalent, e.g. 0.91$\overline{6}$ (accept any unambiguous indication of the recurring digits).</p> <p>Do not accept rounded or truncated decimals.</p> |
| 24 | 32.4 | 1m | |
| 25 | $1\frac{31}{35}$ OR $\frac{66}{25}$ | 1m | <p>Accept equivalent mixed numbers, fractions or the exact decimal equivalent, e.g. 1.8$\overline{857142}$ (accept any unambiguous indication of the recurring digits).</p> <p>Do not accept rounded or truncated decimals.</p> |
| 26 | 108 | 1m | |
| 27 | 2.998 | 1m | |

