

Multiplication

The children **should be encouraged to use this standard method.** However, for those who need support, the grid method may be used.

M9a: Long Multiplication
Column

$$\begin{array}{r} 243 \\ \times 68 \\ \hline 1944 \quad (8 \times 243) \\ + 14580 \quad (60 \times 243) \\ \hline 16524 \end{array}$$

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M9g: Long Multiplication
Column

$$\begin{array}{r} 3786 \\ \times 48 \\ \hline 30288 \quad (8 \times 3786) \\ + 151440 \quad (40 \times 3786) \\ \hline 181728 \end{array}$$

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Multiplying decimals

M9c: Column Multiplication

$$\begin{array}{r} 10 \quad 1 \quad \frac{1}{10} \\ 3.6 \\ \times 4 \\ \hline 14.4 \\ \hline 2 \end{array}$$

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Division

Short division (bus stop) and long division.

D10i: Short Division

$$87.5 \div 7 = 12.5$$
$$\begin{array}{r} 12.5 \\ 7 \overline{)87.5} \\ \underline{7} \\ 17 \\ \underline{14} \\ 35 \\ \underline{35} \\ 0 \end{array}$$

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D13: Long Division
Chunking Method

$$983 \div 37 = 26 \text{ r}21$$
$$\begin{array}{r} 26 \text{ r}21 \\ 37 \overline{)983} \\ \underline{-740} \quad (37 \times 20) \\ 243 \\ \underline{-222} \quad (37 \times 6) \\ 21 \end{array}$$

$983 \div 37 = 26 \text{ r}21$

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D12: Long Division
Short Division Method

$$983 \div 37 = 26 \text{ r}21$$
$$\begin{array}{r} 26 \text{ r}21 \\ 37 \overline{)983} \\ \underline{74} \\ 24 \\ \underline{22} \\ 23 \\ \underline{22} \\ 13 \\ \underline{11} \\ 23 \\ \underline{22} \\ 13 \end{array}$$

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YEAR 6 WRITTEN METHODS IN MATHS

A guide for Parents/Carers



Year 6 expectations

- Use negative numbers in context and calculate intervals across zero.
- Compare and order numbers up to 10,000,000.
- Identify common factors, common multiples and prime numbers.
- Round any whole number to a required degree of accuracy.
- Identify the value of each digit to 3 decimal places.
- Use knowledge of order of operations to carry out calculations involving four operations.
- Multiply:
 - 4-digit by 2-digit
- Divide:
 - 4-digit by 2-digit
- Add and subtract fractions with different denominators and mixed numbers.
- Multiply simple pairs of proper fractions, writing the answer in the simplest form.
- Divide proper fractions by whole numbers.
- Calculate % of whole number.

Addition

Column addition

A7e: Column Addition

$$\begin{array}{r}
 787567 \\
 + 446278 \\
 \hline
 1233845 \\
 \hline
 \end{array}$$

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Addition involving money and decimals

A7i: Column Addition
With Money

$$\begin{array}{r}
 \text{€}38.25 \\
 + \text{€}27.46 \\
 \hline
 \text{€}65.71 \\
 \hline
 \end{array}$$

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Subtraction

Column subtraction

S11e: Column Subtraction

$$\begin{array}{r}
 \overset{3}{7}\overset{1}{4}\overset{7}{2}\overset{12}{8}\overset{1}{3}1 \\
 - 427358 \\
 \hline
 315473 \\
 \hline
 \end{array}$$

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Subtraction involving decimals

S11h: Column Subtraction
With Decimals

$$\begin{array}{r}
 12.4 - 5.97 = 6.43 \\
 \begin{array}{r}
 \overset{10}{0}\overset{11}{1}\overset{13}{2}\overset{1}{4}0 \\
 - 5.97 \\
 \hline
 6.43 \\
 \hline
 \end{array}
 \end{array}$$

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