

These are the non-negotiable written calculation methods to be taught in Year 5 to ensure a consistent and progressive approach across school. Curriculum links are stated below but please refer to the National Curriculum/ scheme of work for full coverage. Teachers should use this policy alongside agreed school teaching strategies for Mathematics.

## Addition

$$\begin{array}{r} 93672 \\ + 36149 \\ \hline 129821 \\ \hline \end{array}$$

$$\begin{array}{r} 73.42 \\ + 21.69 \\ \hline 95.11 \\ \hline \end{array}$$

Add with more than 4 digits using the column method – include decimal numbers and link to place value.

## Subtraction

$$\begin{array}{r} 926\frac{3}{4}5 \\ - 51029 \\ \hline 41616 \\ \hline \end{array}$$

$$\begin{array}{r} 782.27 \\ - 29.51 \\ \hline 52.76 \\ \hline \end{array}$$

Subtract with more than 4 digits using the column method – include decimal numbers and link to place value.

## Multiplication

$$\begin{array}{r} 4763 \\ \times 9 \\ \hline 42867 \\ \hline \end{array}$$

Multiply numbers up to 4 digits by a one-digit number using short multiplication.

$$\begin{array}{r} 326 \\ \times 24 \\ \hline 1304 \\ 6520 \\ \hline 7824 \\ \hline \end{array}$$

Multiply numbers up to 4 digits by a two-digit number using long multiplication.

## Division

$$\begin{array}{r} 1526 \div 5 = 305 \text{ R } 1 \\ 5 \overline{) 1526} \end{array}$$

Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context including with remainders, as fractions, as decimals or by rounding.

$$\begin{array}{r} 732.5 \\ 6 \overline{) 4395.0} \end{array}$$

$$\begin{array}{r} 309 \frac{4}{7} \\ 7 \overline{) 2167} \end{array}$$

## Fractions

$$\frac{4}{7} + \frac{5}{7} = \frac{9}{7} \text{ or } 1 \frac{2}{7}$$

Add and subtract fractions with the same denominator and denominators that are multiples of the same number.

$$\frac{3}{4} + \frac{5}{8} = \frac{6}{8} + \frac{5}{8} = \frac{11}{8} = 1 \frac{3}{8}$$

$$\frac{4}{6} - \frac{1}{3} = \frac{4}{6} - \frac{2}{6} = \frac{2}{6}$$

$$\frac{3}{4} \times 5 = \frac{3}{4} \times \frac{5}{1} = \frac{15}{4} \text{ or } 3 \frac{3}{4}$$

Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.

$$2 \frac{1}{4} \times 5 = \frac{9}{4} \times \frac{5}{1} = \frac{45}{4} \text{ or } 11 \frac{1}{4}$$