

## Key Stage 2 – Addition

# Y4

- Continue with columnar addition.

$\begin{array}{r} 371 \\ + 485 \\ \hline 856 \\ \hline 1 \end{array}$	$\begin{array}{r} 376 \\ + 485 \\ \hline 861 \\ \hline 11 \end{array}$	$\begin{array}{r} 2388 \\ + 1124 \\ \hline 3512 \\ \hline 11 \end{array}$
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- Estimate and use inverse operations to check answers to a calculation.
- Add money using both £ and pence in practical contexts.

### National Curriculum requirements:

Add numbers with up to 4 digits, using the formal written method of columnar addition.

## Key Stage 2 – Subtraction

# Y4

- Continue with partitioned columnar subtraction progressing to compact columnar subtraction.

$\begin{array}{r} \text{H T O} \\ 34 \cancel{1} 3 7 \\ - 1 8 2 \\ \hline 2 5 5 \end{array}$	$\begin{array}{r} \text{H T O} \\ 34 \cancel{1} 2 \cancel{3} 1 2 \\ - 1 8 7 \\ \hline 2 4 5 \end{array}$	$\begin{array}{r} \text{H T O} \\ 56 \cancel{9} \cancel{0} 1 4 \\ - 3 4 7 \\ \hline 2 5 7 \end{array}$	$\begin{array}{r} \text{Th H T O} \\ 8 \cancel{3} 4 \cancel{1} 1 \cancel{2} 1 6 \\ - 2 1 7 7 \\ \hline 6 2 4 9 \end{array}$
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- Estimate and use inverse operations to check answers to a calculation.
- Subtract amounts of money using columnar method.

### Video clips:

[Subtraction - teaching children to consider the most appropriate methods before calculating](#)

[Introducing partitioned column subtraction method, from practical to written](#)

[Moving to the compact column method of subtraction](#)

### National Curriculum requirements:

Subtract numbers up to 4 digits using the formal written method of columnar subtraction.

## Key Stage 2 – Multiplication

Y4

- Recall and use multiplication tables up to 12x12 (Including multiplying by 0 and 1).
- Continue using grid method and expanded method as appropriate, progressing to short multiplication.

x	100	30	6
5	500	150	30

$$\begin{array}{r}
 327 \\
 \times \quad 4 \\
 \hline
 1308
 \end{array}$$

- Short Multiplication.

No carrying	Extra digit	Carrying		Ext.
$  \begin{array}{r}  \text{TO} \\  32 \\  \times 3 \\  \hline  96  \end{array}  $	$  \begin{array}{r}  \text{HTO} \\  51 \\  \times 2 \\  \hline  102  \end{array}  $	$  \begin{array}{r}  \text{HTO} \\  38 \\  \times 7 \\  \hline  266 \\  5  \end{array}  $	$  \begin{array}{r}  \text{HTO} \\  202 \\  \times 4 \\  \hline  808  \end{array}  $	$  \begin{array}{r}  \text{HTO} \\  \square 5 \square \\  \times 4 \\  \hline  612 \\  21  \end{array}  $

### National Curriculum requirements:

Multiply 2 digits by 1 digit using formal written layout.

Multiply 3 digits by 1 digit using formal written layout.

## Key Stage 2 – Division

# Y4

- Recall and use all division facts for all tables up to 12 (Including dividing by 1).
- Continue with short division method.

$$\begin{array}{r} 18 \\ 4 \overline{)72} \\ \underline{4} \phantom{0} \\ 32 \\ \underline{32} \\ 0 \end{array}$$

$$\begin{array}{r} 037 \\ 5 \overline{)185} \\ \underline{15} \phantom{0} \\ 35 \\ \underline{35} \\ 0 \end{array}$$

$$\begin{array}{r} 218 \\ 4 \overline{)872} \\ \underline{8} \phantom{0} \\ 72 \\ \underline{68} \\ 42 \\ \underline{40} \\ 2 \end{array}$$

- Progressing to short division with remainders.

$$\begin{array}{r} 204 \\ 4 \overline{)816} \\ \underline{8} \phantom{0} \\ 16 \\ \underline{16} \\ 0 \end{array}$$

$$\begin{array}{r} 141 \text{ r}1 \\ 3 \overline{)424} \\ \underline{3} \phantom{0} \\ 12 \\ \underline{12} \\ 4 \\ \underline{3} \\ 1 \end{array}$$

### National Curriculum requirements:

Divide 2 digits by 1 digit and 3 digits by 1 digit becoming fluent with formal written method of short division with exact answers and progressing to remainders.

*The National Curriculum statutory requirements for Year 4 and the use of written methods are not clear therefore our guidance for Year 4 has been based on the skills required to access Year 5 statutory requirements.*

## Calculation: Fractions

### **ADDITION AND SUBTRACTION**

Add and subtract fractions with the same denominator