

## Key Stage 2 – Addition

# Y4

- Continue with columnar addition.

H T O		H T O		Th H T O	
+	3 7 1	+	3 7 6	+	2 3 8 8
	<u>4 8 5</u>		<u>4 8 5</u>		<u>1 1 2 4</u>
	<u>8 5 6</u>		<u>8 6 1</u>		<u>3 5 1 2</u>
	1		1 1		1 1

- 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.

$\begin{array}{r} \text{H T O} \\ 34137 \\ - 182 \\ \hline 255 \end{array}$	$\begin{array}{r} \text{H T O} \\ 3412312 \\ - 187 \\ \hline 245 \end{array}$	$\begin{array}{r} \text{H T O} \\ 5691014 \\ - 347 \\ \hline 257 \end{array}$	$\begin{array}{r} \text{Th H T O} \\ 83411216 \\ - 2177 \\ \hline 6249 \end{array}$
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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

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

- Short Multiplication.

No carrying	Extra digit	Carrying	Ext.
<b>TO</b> $  \begin{array}{r}  32 \\  \times 3 \\  \hline  96  \end{array}  $	<b>HTO</b> $  \begin{array}{r}  51 \\  \times 2 \\  \hline  102  \end{array}  $	<b>HTO</b> $  \begin{array}{r}  38 \\  \times 7 \\  \hline  266 \\  5  \end{array}  $	<b>HTO</b> $  \begin{array}{r}  202 \\  \times 4 \\  \hline  808  \end{array}  $
			<b>HTO</b> $  \begin{array}{r}  \square 5 \square \\  \times 4 \\  \hline  612 \\  2 \quad 1  \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.

$$\begin{array}{r} 18 \\ 4 \overline{) 72} \end{array}$$

$$\begin{array}{r} 037 \\ 5 \overline{) 185} \end{array}$$

$$\begin{array}{r} 218 \\ 4 \overline{) 872} \end{array}$$

- Progressing to short division with remainders.

$$\begin{array}{r} 204 \\ 4 \overline{) 816} \end{array}$$

$$\begin{array}{r} 141 \text{ r}1 \\ 3 \overline{) 424} \end{array}$$

### 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