# **Addition**

### У4

Children will begin to use informal and formal (column) methods and jottings to support, record and explain partial mental methods building on existing mental strategies.

### Formal written method of column addition

Continue to develop an efficient standard method that can be applied generally. For example:

Using 'carrying'-

789 + 642 becomes

Answer: 1431

Extend method to numbers with at least four digits.

## **Subtraction**

## <u>y4</u>

Calculations as described and demonstrated in Y3. Extending to include four digits.

#### Formal written method of column subtraction

932 - 457 becomes

# **Multiplication**

**y**4

Children will know by heart all the multiplication facts derived from the 2x, 4x, 8x, 3x, 6x, 5x, 10x and 11x tables.

## ✓ Partitioning

$$38 \times 5 = (30 \times 5) + (8 \times 5)$$
  
= 150 + 40  
= 190

#### ✓ Grid method

 $235 \times 8$ Children will approximate first  $235 \times 8$  is approximately  $250 \times 8 = 2000$ 

# **Division**

У4

Children will recall division facts derived from the 2x, 4x, 8x, 3x, 6x, 5x, 10x and 11x tables.

### ✓ Chunking

Children will develop a method of chunking using the facts they know and can derive.

$$\begin{array}{r}
1 6 \\
6 \overline{\smash)96} \\
-\underline{60} \\
36 \\
-\underline{36} \\
0
\end{array}$$

$$\begin{array}{r}
1 \times 6 = 6 \\
10 \times 6 = 60 \\
6 \times 6 = 36
\end{array}$$

Answer: 16

Children are encouraged to cross out the divisor to leave the answer.

#### ✓ Short division

98 ÷ 7 becomes

Answer: 14

## √ Formal written layout

Two digit numbers by one digit numbers

$$24 \times 6$$
 becomes

Answer: 144

Three digit numbers by one digit numbers

 $356 \times 7$ 

 $342 \times 7$  becomes

Answer: 2394