# Subtraction: Violet (Y6)

#### Mental Work

Derive and recall

• subtraction facts for multiples of 10 to 1000 and decimal numbers with one decimal place, e.g. 650 -  $\Delta$  = 490,  $\Delta$  - 1.4 = 2.5

Work mentally (with jottings if needed)

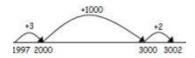
- subtract pairs of decimals with units, tenths or hundredths, e.g. 3.7 1.28 (use knowledge of place value)
- subtract a decimal with units and tenths that is nearly a whole number, e.g. 6.5 3.8 (partition: subtract a whole number and adjust, e.g. 6.5 3.8 = 6.5 -
- count back in minutes and hours, bridging through 60 (analogue and digital times,
  12-hour and 24-hour clock)

## Children should be encouraged to:

- \* approximate their answers before calculating
- \*consider if a mental calculation would be appropriate <u>before</u> using written methods
- \*check their answers after calculation using an appropriate strategy

## Number lines

Where the numbers involved in the calculation are close together or near to multiples of 10, 100, etc., counting  $\underline{on}$  using a number line should be used, e.g. 3002 - 1997 = 1005. This is much less vulnerable to errors and is much more efficient.

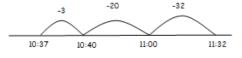


It may be easiest to find the difference (using the counting up method) using a number line

€14.24 - €8.70



The 09:55 train from Brighton takes 55 minutes to arrive in London. On Tuesday it set off late and arrived at 11:32. What time did it set off?







#### Recording

Children should use decomposition to

- find the difference between two 3-digit sums of money, with or without 'adjustment' from the pence to the pounds, and know that the decimal points line up under each other
- subtract decimal amounts using tenths and then hundredths
- Subtract two or more decimal fractions with up to three digits and either one or two decimal places, and know that decimal points should line up under each other

£8.95 = 
$$8.\overset{\circ}{\cancel{9}}\overset{\circ}{\cancel{5}}$$
  
-£4.38 =  $\frac{4.38}{4.57}$ 

Alternatively, children can set amounts to whole numbers, i.e. 895 - 438 and convert to pounds after the calculation

Missing number calculations.

Solve multi step problems with subtraction.

Use inverse operations and rounding to estimate and check calculations.