

Addition & Subtraction Column Method

$$\begin{array}{r} 45864 \\ +23497 \\ \hline 69361 \\ \hline 111 \end{array}$$

Starting with the ones, add each column in turn. Regroup tens, hundreds, thousands, ten thousands and/or as required.

$$\begin{array}{r} 6\ 13\ 1 \\ 35742 \\ - 3476 \\ \hline 32266 \end{array}$$

Starting with the ones, subtract each column in turn. Exchange tens, hundreds, thousands and/or ten thousands as required.

Vocabulary

add	To bring two or more numbers (or things) together to make a new total.
total	The result of adding. e.g. 1 + 4 gives a total of 5
sum	The result of adding two or more numbers.
difference	The result of subtracting one number from another. E.g. the difference between 8 and 5 is 3.
subtract	To take one number away from another. Synonyms: minus, take-away, decrease, deduct
column addition/subtraction	Addition/subtraction by writing one number below the other and then adding/subtracting one column at a time
estimate	To find a value that is close enough to the right answer.
inverse operations	The operation that reverses the effect of another operation.
place value	The value of where a digit is in the number.

Estimate and Approximate

Rounding to Estimate:

$$41\ 635 + 7386 = 49\ 021$$



$$41\ 640 + 7390 = 48\ 030$$

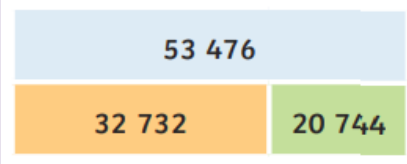
Estimating on a Number Line:

The arrow is about $\frac{3}{4}$ of the way across the line so it is 40 000



Inverse Operations

Use the inverse to check:



To check $53\ 476 - 32\ 732 = 20\ 744$
use $32\ 732 + 20\ 744 = 53\ 476$

Multistep Problems

£20			£20 is used to buy 2 books costing
£3.75	£8.49	?	£3.75 and £8.49.
£12.24		£7.76	How much change is given?

$$\begin{aligned} \pounds 3.75 + \pounds 8.49 &= \pounds 12.24 \\ \pounds 20.00 - \pounds 12.24 &= \pounds 7.76 \end{aligned}$$