



Maths

Addition and Subtraction Y5

Knowledge

- Inverse operations (addition and subtraction)

Skills

- Add whole numbers with more than 4-digits (column method)
- Subtract whole numbers with more than 4-digits (column method)
- Round to estimate and approximate
- Multi-step addition and subtraction problems

Vocabulary

Add, total, plus, sum, more, altogether, difference, subtract, less, minus, take away, column addition, exchange, estimate, inverse operation, solve, number, column subtraction

Multi-step problems

Find the important information to help you decide what you need to do first to answer the question.

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

£7.76

$$3.75 + 8.49 = 12.24 \quad 20.00 - 12.24 = 7.76$$

Estimate

To estimate the answer to calculations, we round our numbers to the nearest 10, 100, 1,000 or 10,000.

$82,782 - 34,521 =$	$74,782 - 34,521 =$
$80,000 - 30,000 = 50,000$	$75,000 - 30,000 = 45,000$
$46,253 + 13,649 =$	$54,253 + 18,649 =$
$50,000 + 10,000 = 60,000$	$54,000 + 19,000 = 73,000$

Addition Methods

$$\begin{array}{r} 2625 \\ + 796 \\ \hline 3421 \\ \small{1 \quad 1 \quad 1} \end{array} \quad \begin{array}{r} 4625 \\ + 486 \\ \hline 5111 \\ \small{1 \quad 1 \quad 1} \end{array}$$

$$\begin{array}{r} 361746 \\ + 41728 \\ \hline 403474 \\ \small{1 \quad 1 \quad 1} \end{array}$$

Think about the place value of the digits when writing out your calculation using the column method.

Subtraction methods

$$\begin{array}{r} 361746 \\ - 41728 \\ \hline 320018 \end{array}$$

$$\begin{array}{r} 151 \\ - 796 \\ \hline 1829 \end{array}$$

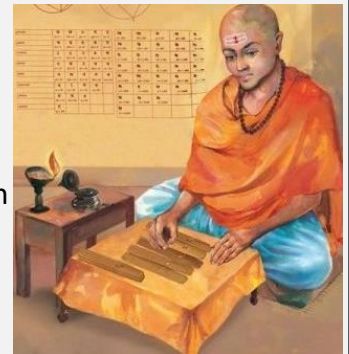
$$\begin{array}{r} 4685 \\ - 423 \\ \hline 4262 \end{array}$$

Think about the place value of the digits when writing out your calculation using the column method.

Inspirational Mathematician

Brahmagupta (598 – 668 AD)

Brahmagupta of India was the greatest mathematician to be the first to discover that the product of two negative numbers is a positive number. He also found that the product of a positive number and a negative number is a negative number. In fact, he is probably the first to treat zero as a number in its own right.



Checking answers

To check our answers, we can use the inverse operation.

$$456,154 + 52,625 = 508,779$$

Check using

$$508,779 - 52,625 = 456,154$$

$$508,779 - 456,154 = 52,625$$

$$52,625 + 456,154 = 508,779$$

$$873,736 - 28,321 = 845,615$$

Check using

$$845,615 + 28,321 = 873,736$$

$$28,321 + 845,615 = 873,736$$

$$873,736 - 845,615 = 28,321$$