

Maths Written Calculation Strategies Key Stage Two











In Year 3 onwards the method for subtraction becomes a more compact method using columns and place value. 874 – 523 =

- HTU
- Start to subtract with the Units
- column moving along to the tens
- <u>523</u> then the hundreds.
- 3 5 1

This method develops and uses 'exchanging' when necessary.

932 - 457 =



Start to subtract with the Units column. Two cannot be subtracted from 7 so exchange from the next column. Cross out the tens column and reduce it by one. Carry your one into the units and complete the subtraction for the column. Move onto the tens column and borrow from the hundreds if necessary.









In Year 3 and 4, setting out multiplication is as a vertical calculation which is an extension method for preparation for Key Stage Two.





From multiplication: 23 × 7	Wultiplication Year 4 onwards, children are asked to use	a more compact method for
23 <u>X27</u> 1	seven times 3 is twenty one put the two tens in the tens column and the one in the ones column	
2 3 <u>X₂ 7</u> <u>16 1</u>	seven times twenty is one hundred and forty plus the two tens makes one hundred and sixty. Put the sixty in the tens column and the one hundred in the hundreds column.	









From Year 3 onwards a method known as the bridge is used to divide by single digits.



How many groups of 3 are in 7? $2 \times 3 = 6$ remainder 1 Move the remainder 1 across to make 12

How many groups of 3 in 12? 4 x 3 = 12 Add the 4 The answer is 24









In Year 5 and 6, when dividing with decimals put the point in first and then follow the method.

12.6 ÷ 3 <u>4 . 2</u> 3) 12 . 6

Put the decimal point in first How many groups of 3 are in 12? 4 x 3 = 12 Put the 4 above the 12

12. 6 ÷ 3 = 4.2

How many groups of 3 in 6? 2 x 3 = 6 Put the 2 above the 6.

The answer is 4.2

