

The four operations used for Maths at Somerset Bridge Primary in Year 5.

Year 5

Addition

Adding numbers with more than 4 digits including decimals

Using place value charts are key to this as well as place value counters to help with the decimals.

Use 'regrouping' to describe rearranging a column.

Use the vocabulary of 'Addend, addend and sum.'

£23·59 +£7·55 £31·14

> 2 3 4 8 1 + 1 3 6 2 2 4 8 4 3

19.01 3.65 +0.7 23.38

Using the bar to find missing digits.

It is important for children to use the bar in this way to encourage the use of it to aid with problem solving. This is not a form of getting the correct answer but helping to guide children to the correct operation.

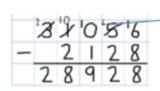
MacDonalds sold £9957.68 worth of hamburgers and £1238.5 worth of chicken nuggets. How much money did they take altogether?



Subtraction

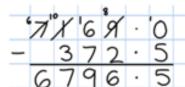
Subtract with at least four. digit numbers including two decimal places.

Include money, measures and decimals ensuring that children do this practically before the abstract. Subtract with decimal values, including mixtures of integers and decimals, aligning the decimal point.

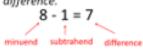


Use 'regrouping'

Approximate /Estimate, Calculate, Check.

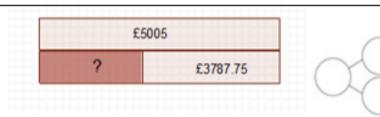


Use the vocabulary of 'Minuend, subtrahend and difference.' 8 - 1 = 7



Using the bar model or part part whole model to find missing digits.

It is important for children to use the bar or part, part whole in this way to encourage the use of it to aid with problem solving.



A holiday to Lapland costs £5005 for a family of four, the <u>Smith's</u> have only saved £3787.75, how much money do they still need to find?

Multiplication

Multiplying up to <u>four digit</u> numbers by two digits using long multiplication.

Children need to be taught to approximate first, e.g. for 72 x 38, they will use rounding: 72 x 38 is approximately 70 x 40 = 2800, and use the approximation to check the reasonableness of their answer.

56 X 27 392 <u>(</u>56×7) 1120 <u>(</u>56×20)

Approximate /Estimate, Calculate, Check.

- · Explain that first we are multiplying the top number by 7 starting with the units/ones. (any carrying needs to be done underneath the numbers).
- Now explain that we need to put a 0 underneath—explain that this is because we are multiplying the number by 20.. (2 tens) which is the same as multiplying 10 and 2.
- Now add the 2 numbers together to give you the answer.
- This will need lots of modeling to show the children.

Use the vocabulary of 'Factor, multiplier, multiplicand and product.'

