Somerset Bridge Primary School

Aspire - Brave - Care - Collaborate

The four operations used for Maths at Somerset Bridge Primary in Year 6.

Year 6

Addition

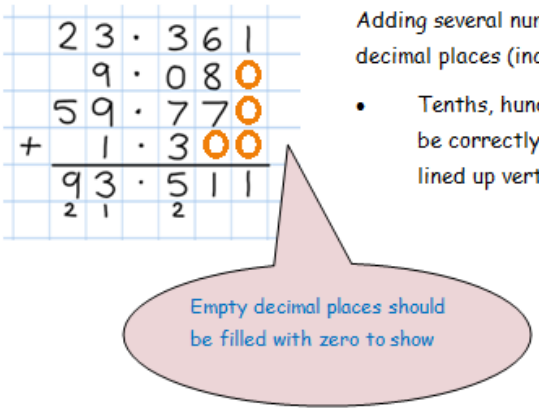
Adding several numbers with up to three decimal places.

Use 'regrouping' to describe rearranging a column.

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

1 + 7 = 8

addend addend sum

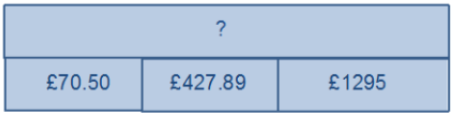


Adding several numbers with different numbers of decimal places (including money and measures):

- Tenths, hundredths and thousandths should be correctly aligned, with the decimal point lined up vertically including in the answer row.

Adding using the bar.

Jack went on holiday. His flight cost £70.50, the hotel £1295 and spending money £427.89. How much did Jack spend on his holiday?



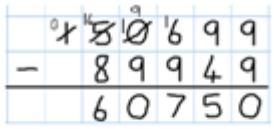
Subtraction

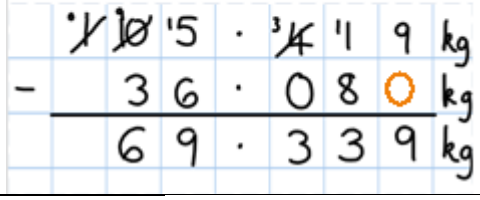
Subtracting with increasingly large and more complex numbers and decimal values.

Use the vocabulary of 'Minuend, subtrahend and difference.'

8 - 1 = 7

minuend subtrahend difference

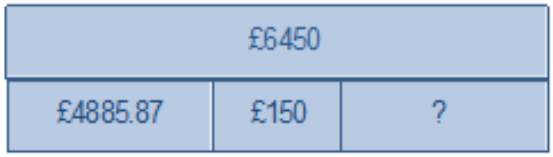




Very important to use in a range of contexts- measures and money.

Using the bar for subtraction.

Chloe wants to buy a new car for £6450. She has £4885.87 in her savings account. Her Dad gives her £150 for her birthday. How much more money does she need to save?



Multiplication

Short multiplication with up to two decimal places.

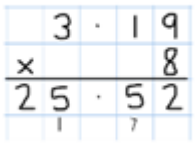
Use the vocabulary of 'Factor, multiplier, multiplicand and product.'

2 x 4 = 8

multiplier multiplicand product

multiplicand multiplier product

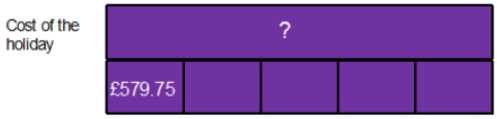
factor factor product



Approximate /Estimate, Calculate, Check .

Using the bar to help with multiplication.

If 5 friends went on holiday and each paid £579.75 what was the total cost of the holiday?



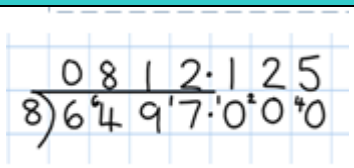
Division

Divide at least 4 digits by both single-digit and 2-digit numbers (including decimal numbers and quantities)

Use the vocabulary of 'Dividend, divisor and quotient.'

32 ÷ 4 = 8

dividend divisor quotient

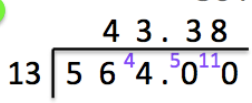


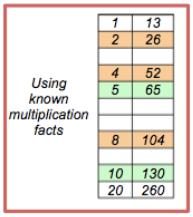
Short division with remainders: Pupils should continue to use this method, but with numbers to at least 4 digits, and understand how to express remainders as fractions, decimals, whole number remainders, or rounded numbers. Real life problem solving contexts need to be the starting point, where pupils have to consider the most appropriate way to express the remainder.

Short division only

Division

564 ÷ 13



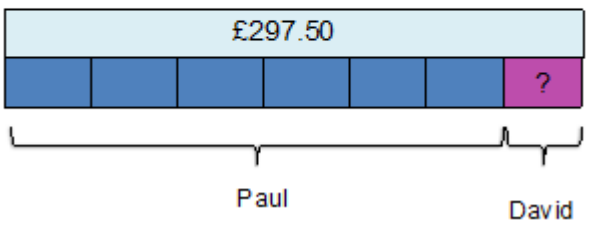


564 ÷ 13

= 43 r 5 = $43\frac{5}{13}$ = 43.4 (to 1dp)

Using the bar to help divide.

Paul and David hire a car together at a cost of £297.50. Paul pays 6 times more than David. How much does David pay?



The order of operations.

B	**Brackets**	$10 \times (4 + 2) = 10 \times 6 = 60$
O	**Order**	$5 + 2^2 = 5 + 4 = 9$
D	**Division**	$10 + 6 \div 2 = 10 + 3 = 13$
M	**Multiplication**	$10 - 4 \times 2 = 10 - 8 = 2$
A	**Addition**	$10 \times 4 + 7 = 40 + 7 = 47$
S	**Subtraction**	$10 \div 2 - 3 = 5 - 3 = 2$

Fractions, decimals, percentages equivalence.

$\frac{1}{8}$	0.125	12.5%	$\frac{1}{10}$	0.1	10%	$\frac{1}{100}$	0.01	1%
$\frac{2}{8}=\frac{1}{4}$	0.25	25%	$\frac{2}{10}=\frac{1}{5}$	0.2	20%	$\frac{2}{100}$	0.02	2%
$\frac{3}{8}$	0.375	37.5%	$\frac{3}{10}$	0.3	30%	$\frac{3}{100}$	0.03	3%
$\frac{4}{8}=\frac{2}{4}$	0.5	50%	$\frac{4}{10}=\frac{2}{5}$	0.4	40%	$\frac{4}{100}$	0.04	4%
$\frac{5}{8}$	0.625	62.5%	$\frac{5}{10}$	0.5	50%	$\frac{5}{100}$	0.05	5%
$\frac{6}{8}=\frac{3}{4}$	0.75	75%	$\frac{6}{10}=\frac{3}{5}$	0.6	60%	$\frac{10}{100}$	0.10	10%
$\frac{7}{8}$	0.875	87.5%	$\frac{7}{10}$	0.7	70%	$\frac{25}{100}$	0.25	25%
$\frac{8}{8}=\frac{4}{4}$	1	100%	$\frac{8}{10}=\frac{4}{5}$	0.8	80%	$\frac{50}{100}$	0.50	50%
			$\frac{9}{10}$	0.9	90%	$\frac{75}{100}$	0.75	75%
			$\frac{10}{10}=\frac{5}{5}$	1	100%	$\frac{100}{100}$	1	100%