

Welcome to Year 3 and 4 Calculation Evening

Addition of 3-digit numbers

A7: Column Addition

$$\begin{array}{r} \text{100} \quad \text{10} \quad \text{1} \\ \text{6} \text{8} \text{7} \\ + \text{2} \text{4} \text{8} \\ \hline \text{9} \text{3} \text{5} \\ \hline \text{1} \quad \text{1} \end{array}$$

Addition of 4-digit numbers

A7d: Column Addition

$$\begin{array}{r} 4873 \\ + 3762 \\ \hline 8635 \\ \hline \end{array}$$

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Addition with decimals

A7j: Column Addition

With Decimals

$$73.4 + 5.67 = 79.07$$

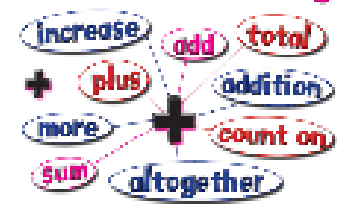
$$10 \quad 1 \quad = \quad \frac{1}{10} \quad \frac{1}{100}$$

$$\begin{array}{r} 73.4 \\ + 5.67 \\ \hline 79.07 \\ \hline \end{array}$$

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Addition Vocabulary



Important skills -

Line up numbers correctly (Th H T O place)

Always start with the ones

Regroup if more than 9

Remember to rename and move the regrouped ten

Put the renamed one under the line (place value)

Remember to add the small one to the other digits

Subtraction of 3-digit numbers

S11: Column Subtraction

$$\begin{array}{r} \text{100} \quad \text{10} \quad \text{1} \\ \text{6} \quad \text{11} \quad \text{1} \\ \text{7} \text{2} \text{3} \\ - \text{3} \text{5} \text{6} \\ \hline \text{3} \text{6} \text{7} \end{array}$$

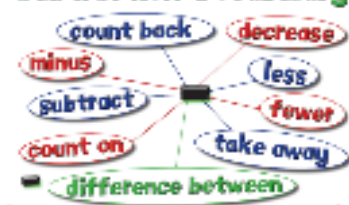
Subtraction of 4-digit numbers

S11d: Column Subtraction

$$\begin{array}{r} \overset{4}{\cancel{5}} \overset{9}{\cancel{0}} \overset{13}{\cancel{4}} \overset{1}{2} \\ - 1776 \\ \hline 3266 \end{array}$$



Subtraction Vocabulary



Important skills -

Always write the biggest number first

Line up numbers correctly (THTO place)

Always start with the ones

Exchange ten from the left if top number is smaller

Remember to cross out and rename the digit on the left

Using the Grid Method (TO $\times$ O)

M5a: Grid Method

Short Multiplication

$$43 \times 6 = 258$$

x	40	3
6	240	18

$$240 + 18 = 258$$



Using the Grid Method (HTO $\times$ O)

M5b: Grid Method

Short Multiplication

$$147 \times 4 = 588$$

x	100	40	7
4	400	160	28

$$400 + 160 + 28 = 588$$



Multiplication Vocabulary



Important skills -

Partition the number into hundreds, tens and ones

The multiplier always goes on the left

Write down each total and then add them together.

Short Division (without remainders)
Dividing 3-digits by a single digit

D10d: Short Division

$$591 \div 3 = 197$$

$$\begin{array}{r} 197 \\ 3 \overline{) 591} \end{array}$$

Short Division (with remainders)
Dividing 2-digits by a single digit

(D10: Short Division)

Additional: a

$$65 \div 4 = 16r1$$

$$\begin{array}{r} 16r1 \\ 4 \overline{) 65} \end{array}$$

Important skills -

Known as bus stop division

The divisor always goes on the left

Always start with the biggest value

Times tables knowledge

Write down the amount remaining

Division Vocabulary



$$\begin{array}{r} 6 \text{ --- quotient} \\ 4 \overline{) 24} \text{ --- dividend} \\ \underline{24} \\ 0 \end{array}$$