## Brampton Village Primary School

## Calculation Policy

[^0]
## Addition

$$
\begin{array}{lll}
\text { add } & \text { plus } & \text { mo } \\
\text { increase } & \text { total } & \text { sum } \\
& \text { altogether } &
\end{array}
$$

Skill Add I-digit numbers within 10








| Skill: Add with up to 3 decimal places |  |  |  | Year 5 |
| :---: | :---: | :---: | :---: | :---: |
|  | ? |  | $\begin{array}{r} 3.65 \\ +2.41 \\ \hline 6.06 \\ \hline \end{array}$ | Place value counters and plain counters on a place value grid are the most effective manipulatives when adding decimals with I, 2 and then 3 decimal places. <br> Ensure children have experience of adding decimals with a variety of decimal places. This includes putting this into context when adding money and other measures. |
|  | 3.65 | 2.41 |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  | $5+2$. | . 06 |  |  |
|  |  |  |  |  |
| Ones - Tenths | Hundredths | $\cdots$ am | nomm |  |
| (1)(1) (a) (a) | (2) (2) (a) |  | -0 |  |
| @@@ |  |  |  |  |
| (1) @(@) | (0) |  | - |  |
| (a) |  |  |  |  |
| (1) |  |  |  |  |

## Subtraction





$15$





## Glossary

Addend - A number to be added to another.

Aggregation - combining two or more quantities or measures to find a total.

Augmentation - increasing a quantity or measure by another quantity.

Commutative - numbers can be added in any order.
Complement - in addition, a number and its complement make a total e.g. 300 is the complement to 700 to make 1,000

Difference - the numerical difference between two numbers is found by comparing the quantity in each group.

Exchange - Change a number or expression for another of an equal value.

Minuend - A quantity or number from which another is subtracted.

Partitioning - Splitting a number into its component parts.

Reduction - Subtraction as take away.
Subitise - Instantly recognise the number of objects in a small group without needing to count.

Subtrahend - A number to be subtracted from another.

Sum - The result of an addition.

Total - The aggregate or the sum found by addition.

Multiplication

| multiply times lots of |  |  |
| :---: | :---: | :---: |
| groups of repeated addition |  |  |
| product | multiplied by array |  |
| multiple | multiplier | multiplicand |

Skill: Solve I-step problems using multiplication

$23$






Division

$$
\begin{array}{lcc}
\hline \text { divided by } & \text { share } & \text { divisible by } \\
\text { share equally } & \text { divide } & \text { group } \\
\text { divide into } & \text { dividend } & \text { quotient } \\
\text { divisor } & \text { factor }
\end{array}
$$


Skill: Solve I-step problems using division (grouping)











## Glossary

Array - An ordered collection of counters, cubes or other item in rows and columns.

Commutative - Numbers can be multiplied in any order.

Dividend - In division, the number that is divided.

Divisor - In division, the number by which another is divided.

Exchange - Change a number or expression for another of an equal value.

Factor - A number that multiplies with another to make a product.

Multiplicand - In multiplication, a number to be multiplied by another.

Partitioning - Splitting a number into its component parts.

Product - The result of multiplying one number by another.

Quotient - The result of a division

Remainder - The amount left over after a division when the divisor is not a factor of the dividend.

Scaling - Enlarging or reducing a number by a given amount, called the scale factor


[^0]:    Acknowledgements -
    This policy is extensively based on the White Rose Calculation Policy as this is the core scheme used at Brampton. Many of the images and explanations, although adapted to suit the needs of our school have been used from the White Rose policy.

