Addition
By the end of the Foundation Stage children are expected to confidently, consistently and independently do the following before moving on to the schools formal calculation policy:

- Count reliably with numbers from 1 to 20.
- Place them in order.
- Say one more than a given number.
- Add two single digit numbers.

Count forwards from any given number up to 20 (e.g. count on 3 more than 6).





## Subtraction

By the end of the Foundation Stage children are expected to confidently, consistently and independently do the following before moving on to the schools formal calculation policy:

- Say which number is one less than a given number.
- Subtract two single digit numbers.

To count back to find and answer (e.g. Count back 3 from 6).




## Multiplication

By the end of the Foundation Stage children are expected to confidently, consistently and independently do the following before moving on to the schools formal calculation policy:

Solve problems that include doubling numbers up to 20.




## Division

By the end of the Foundation Stage children are expected to confidently, consistently and independently do the following before moving on to the schools formal calculation policy:

Solve problems by halving and sharing numbers up to 20.

| Stage | Method | Vocabulary |
| :---: | :---: | :---: |
| Practical sharing. Children begin to understand how to share objects into equal groups. Counting in $2 \mathrm{~s}, 5 \mathrm{~s}$ and 10s. |  | Sharing objects into different groups. <br> 6 objects shared between two people. How many do they get each? <br> Children share objects into groups one at a time. |
| Practical grouping. <br> Groups of objects arranged into arrays. |  | How many groups of 3 can we make? <br> There are 6 sweets, how many can two people have each? <br> Arrays always arranged vertically. |
| Introduction of division sign showing array and corresponding number sentence. |  | $6 \div 2=3$ <br> Amount to be divided (divisor) under the division sign (6) arranged in arrays, number divided by (3) to the left, answer (number of arrays) above (2). <br> This is the point where children may become |





|  |  |  | 0 | 0 | 2 | 5 |  |  |  | Subtract 285 from 313. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 5 | 7 | 1 | 4 | 5 | 3 |  | 5 |  |  |
|  |  | - | 1 | 1 | 4 | $\downarrow$ |  |  |  | Bring the final 5 down to make 285. <br> We like 57, 5 times in 57 times table so put final answer of 5 at the top. |
|  |  |  | 0 | ${ }^{2} 3$ | ${ }_{10} 1$ | ${ }^{13}$ |  |  |  |  |
|  |  |  | - | 2 | 8 | 5 |  |  |  |  |
|  |  |  |  | 0 | 2 | 8 |  |  |  |  |
|  |  |  | 0 | 0 | 2 | 5 |  | 5 |  |  |
|  | 5 | 7 | 1 | 4 | 5 | 3 |  | 5 |  |  |
|  |  | - | 1 | 1 | 4 | $\downarrow$ |  |  |  |  |
|  |  |  | 0 | ${ }^{2} 3$ | ${ }_{10} 1$ | ${ }^{13}$ |  |  |  |  |
|  |  |  | - | 2 | 8 | 5 |  |  |  |  |
|  |  |  |  | 0 | 2 | 8 |  | 5 |  |  |

## Glossary

Array - a set of objects or numbers arranged in order, in columns when multiplying and dividing. Calculation - A mathematical operation (not to be referred to as a sum).
Addition
Addition - increase, sum, total, plus, how many.
Subtraction - decrease, difference, reduce, subtract, minus.
Multiplication - product of, times, groups of, lots of, array.
Division - shared, divided, grouped, equal parts, parts of.
Equal - the same as. Two lines under a calculation.

