## Fractions

## Foundation Stage Objectives：

－Solve practical problems involving sharing and halving．See Division section of policy．

## Year 1 Objectives：

－Recognise，find and name a half as one of two equal parts of an object，shape or quantity．
－Recognise，find and name a quarter as one of four equal parts of an object，shape or quantity．

| Concrete | Pictorial | Abstract |
| :---: | :---: | :---: |
| Pupils will use practical objects，including within their role play and outside areas to find $1 / 2$ and $1 / 4$ of different amounts and shapes． |  |  |
| Bar Model using strips of paper，I find 1／2 and $1 / 4$ by folding and cutting different sizes and shapes in order to support their understanding of fractions． | E．g．find half（ $\frac{1}{2}$ ）of the items on each picture or shape．Do the same for a quarter（1／4）． <br> ＊＊＊ <br> 令会会 <br> ＊＊荌会茖令 $\square$ | Half of $10=5$ <br> $1 / 2$ of $6=3$ <br> A quarter of $20=$ $1 / 4$ of $8=2$ |
| I WHOLE |  |  |



## Year 2 Objectives:

- Recognise, find, name and write fractions $1 / 3,1 / 4,2 / 4$ and $3 / 4$ of a length, shape, set of objects or quantity
- Write simple fractions for example, $1 / 2$ of $6=3$ and recognise the equivalence of $2 / 4$ and $1 / 2$



|  | $1 / 2$ of $12=6$ <br> $2 / 4$ of $12=6$ |
| :--- | :--- |
| $2 / 4$ of a pie $=2$ of a pie |  |
| $1 / 2$ of 12 | $=2 / 4$ of 12 |

## Year 3 Objectives:

- Recognise and show, using diagrams, equivalent fractions with small denominators
- Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators
- Add and subtract fractions with the same denominator within one whole [for example, 5/7 +1/7 = 6/7]
- Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number

Recognise and show equivalent fractions using fraction bars/strips, for example



Fractions of a discrete set of objects.
Unit fraction 1/8

David says two sixths is the same as one third. Is he correct? How do you know?
$1 / 5$ of 15 sweets $=3$
$(15 \div 5=3)$




## Year 5 Objectives:

- Add and subtract fractions with the same denominator and denominators that are multiples of the same number
- Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements $>1$ as a mixed number [for example, $2 / 5+4 / 5=6 / 5=11 / 5$ ]
- Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams




