## Fractions, Decimals \& Percentages: Fractions

## By the end of this unit, children will be able to:

- divide whole numbers to create fractions; to create mixed numbers and improper fractions when dividing whole numbers
- write improper fractions and mixed numbers using a number line and pictorial methods
- find equivalent fractions using pictorial methods
- compare and order fractions using the pictorial method
- compare and order improper fractions using the pictorial method
- compare mixed numbers using pictorial representations; to find common denominators where one fraction is already the common denominator for all fractions in the question
- make number pairs (number bonds) with fractions with different denominators
- add unlike fractions by finding a common denominator using pictorial methods
- add unlike fractions by finding a common denominator using pictorial methods
- add together unlike fractions where the sum is greater than 1 , creating mixed numbers or improper fractions
- add unlike fractions which create improper fractions and mixed numbers that give rise to simplification
- subtract fractions with different denominators; to subtract fractions from whole numbers
- subtract fractions where the denominators are not the same; to use bar models as a key strategy for subtracting fractions
- subtract fractions and mixed numbers from mixed numbers with different denominators
- multiply fractions by whole numbers creating other fractions, mixed numbers or improper fractions
- multiply fractions by whole numbers where the product is an improper fraction or mixed number
- multiply mixed numbers by whole numbers, creating larger mixed numbers
- multiply mixed numbers by whole numbers in multi-step word problems.


## Fractions, Decimals Percentages: Decimals

## By the end of this unit, children will be able to:

- read and write decimals
- compare tenths and hundredths written as decimals
- order and compare decimals
- compare and order decimals of amounts
- write fractions as decimals
- add and subtract amounts in decimals
- add and subtract decimals; to add and subtract amounts in pounds and pence
- add and subtract decimals to find the smallest possible sum and difference
- add and subtract decimals; to find number pairs that add up to 1
- add and subtract the perimeter of an object using decimals
- round decimals to the nearest whole number; to round numbers to nearest tenth.


## Fractions, Decimals Percentages: Percentages <br> By the end of this unit, children will be able to:

- compare quantities
- compare fractions, decimals and percentages
- convert fractions to decimals and percentages
- convert values of an amount into percentages
- convert fractions into percentages.


## Geometry - Properties of Shape: Geometry

## By the end of this unit, children will be able to:

- know the names and qualities of acute, right, obtuse and reflex angles
- measure angles using a protractor
- draw, measure and add angles using a protractor
- measure angles using a protractor; to identify two angles which add up to 180 degrees on a straight line
- investigate angles that, when combined, make 360 degrees
- draw angles using a protractor
- draw lines and angles with a high level of accuracy
- describe the sides and angles of both rectangles and squares
- investigate the angles of various quadriaterals, including squares and rectangles
- solve problems involving angles in rectangles
- solve problems involving angles
- use our understanding of angles to solve problems
- investigate and explain the properties of regular polygons.

