- 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
- 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 e.g. $1 / 2$ of $6=3$ and recognise the equivalence of two quarters and one half.
- count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts \& in dividing one-digit numbers or quantities by 10
- recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators
- recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
- recognise and show, using diagrams, equivalent fractions with small denominators
- add and subtract fractions with the same denominator within one whole e.g. ${ }^{5} / 7+1 / 7=6 / 7$
- compare and order unit fractions, and fractions with the same denominator
- solve problems that involve all of the above.
- recognise and show, using diagrams, families of common equivalent fractions
- count up \& down in hundredths; recognise that hundredths arise when dividing an object by a hundred \& dividing tenths by ten
- 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
- add and subtract fractions with the same denominator.
- recognise \& write decimal equivalents of any number of tenths or hundredths
- recognise and write decimal equivalents to $1 / 4,1 / 2,3 / 4$
- find the effect of dividing a one- or two-digit number by 10 and 100 , identifying the value of the digits in the answer as units, tenths and hundredths
- round decimals with one decimal place to the nearest whole number
- compare numbers with the same number of decimal places up to two decimal places solve simple measure \& money problems involving fractions \& decimals to two decimal places.
- compare and order fractions whose denominators are all multiples of the same number
- Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
- recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements $>1$ as a mixed number (e.g. $2 / 5+4 / 5=6 / 5=11 / 5$ )
- add and subtract fractions with the same denominator and multiples of the same number
- multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.
- read and write decimal numbers as fractions (e.g. $0.71=71 / 100$ )
- recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
- round decimals with two decimal places to the nearest whole number and to one decimal place
- read, write, order and compare numbers with up to three decimal places
- solve problems involving number up to three decimal places.
- recognise the per cent symbol (\%) and understand that per cent relates to "number of parts per hundred", and write percentages as a fraction with denominator hundred, and as a decimal fraction
- solve problems which require knowing $\%$ \& decimal equivalents of $1 / 2,1 / 4,1 / 5,2 / 5,4 / 5$ \& those with a denominator of a multiple of 10 or 25 .
- use common factors to simplify fractions; use common multiples to express fractions in the same denomination
- compare and order fractions, including fractions $>1$
- add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
- multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $1 / 4 \times 1 / 2=1 / 8$ )
- divide proper fractions by whole numbers (e.g. $1 / 3 \div 2=1 / 6$ ).
- associate a fraction with division to calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8)
- identify the value of each digit to three decimal places and multiply and divide numbers by 10,100 and 1000 where the answers are up to three decimal places
- multiply one-digit numbers with up to two decimal places by whole numbers
- use written division methods in cases where the answer has up to two decimal places
- solve problems which require answers to be rounded to specified degrees of accuracy.
- recall \& use equivalences between simple fractions, decimals \& percentages, including in different contexts.

