



# Mathematics Progression– Fractions

**Compare:**  
Compare & order fractions including fractions > 1.

**Fractions, decimals & percentages:**  
Recall & use equivalences between simple fractions, decimals & percentages, including in different contexts.

**Fractions, decimals & percentages:**  
Associate a fraction with division & calculate decimal fraction equivalents [e.g., 0.375] for a simple fraction [e.g.,  $\frac{3}{8}$ ]

**Recognise, write, compare:**  
Identify the value of each digit in numbers given to three decimal places.

**Recognise & write:**  
Identify, name & write equivalent fractions of a given fraction, represented visually, including tenths & hundredths.

**Recognise & write:**  
Recognise mixed numbers & improper fractions & convert from one form to the other & write mathematical statements G 1 as a mixed number [e.g.,  $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ]

**Compare:**  
Compare & order fractions whose denominator & denominators are all multiples of the same number.

**Calculations:**  
Add & subtract fractions with the same denominator & denominators that are multiples of the same number.

## Year 6

**Calculations:**  
Add & subtract fractions with different denominators & mixed numbers, using the concept of equivalent fractions.

**Calculations:**  
Multiply simple pairs of proper fractions writing the answer in its simplest form [e.g.,  $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ ]

**Compare:**  
Use common factors to simplify fractions; use common multiples to express fractions in the same denominator.

**Calculations:**  
Divide proper fractions by whole numbers [e.g.,  $\frac{1}{3} \div 2 = \frac{1}{6}$ ].

**Fractions, decimals & percentages:**  
Solve problems which require knowing percentage & decimal equivalents of  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{2}{5}$  & those fractions with a denominator of a

**Fractions, decimals & percentages:**  
Recognise the per cent symbol (%) & understand that per cent relates to 'number of parts per hundred' & write percentages as a fraction with

## Year 5

**Recognise, write, compare:**  
Read & write decimal numbers as fractions [e.g.,  $0.71 = \frac{71}{100}$ ]

**Recognise, write, compare:**  
Round decimals with two decimal places to the nearest whole number & to one

**Calculations:**  
Multiply proper fractions & mixed numbers by whole numbers, supported by materials & diagrams.

**Recognise, write, compare:**  
Read, write, order & compare numbers with up to three decimal places.

**Recognise & write:**  
Count up- & down in hundredths; recognise that hundredths arise when dividing an object by one hundred & dividing tenths by ten.

**Recognise, write, compare:**  
Recognise & use thousandths & relate them to tenths hundredths & decimal equivalents.

**Calculations:**  
Add & subtract fractions with the same denominator.

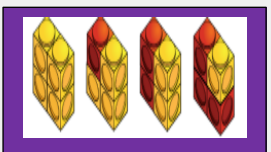
## Year 4

**Compare:**  
Recognise & show, using diagrams, equivalent fractions with small denominators.

**Solve problems:**  
Solve all problems.

**Calculations:**  
Add & subtract fractions with the same denominator within one whole [e.g.,  $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$ ]

**Compare:**  
Compare & order unit fractions & fractions with the same denominators.



**Recognise & write:**  
Count up & 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 & write:**  
Recognise, find & write fractions of a discrete set of objects: unit fractions & non-unit fractions with small denominators.

**Recognise & write:**  
Recognise & use fractions as numbers: unit fractions and non-unit fractions with small

**Solve problems:**  
Solve problems involving increasingly harder fractions to calculate quantities, & fractions to divide quantities, including non-unit fractions where the answer is a whole number.

**Compare:**  
Recognise & show, using diagrams, families of common equivalent fractions.

**Recognise, write, compare:**  
Round decimals with one decimal place to the nearest whole number.

**Recognise, write, compare:**  
Compare numbers with the same number of decimal places up to two decimal places.

**Recognise, write, compare:**  
Recognise & write decimal equivalents of any number of tenths or hundredths.

**Fractions, decimals & percentages:**  
Solve simple measure & money problems involving fractions & decimals to two decimal places.

## Year 3



## Year 2

**Calculations:**  
Write simple fractions e.g.,  $\frac{1}{2}$  of 6 = 3.

## Year 1

**Recognise & write:**  
Recognise, find & name a quarter as one of four equal parts of an object, shape or quantity.

**Recognise & write:**  
Recognise, find & name a half as one of two equal parts of an object, shape, or quantity.

## EYFS

**Compare:**  
Recognise the equivalence of  $\frac{2}{4}$  &  $\frac{1}{2}$ .

**Recognise & write:**  
Recognise, find, name & write fractions  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{2}{4}$  &  $\frac{3}{4}$  of a length, shape, set of objects or quantity.

