

Henbury MATHS Journey: Fractions and Decimals

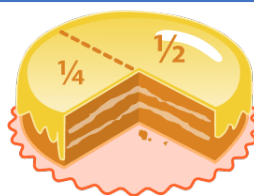


- recognise, find and name a half as one of two equal parts of an object, shape or quantity
- recognise, find and name a quarter as one of four equal parts of an object, shape or quantity

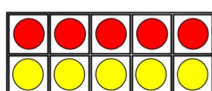
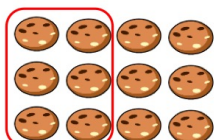
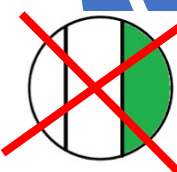
YEAR 1

EYFS

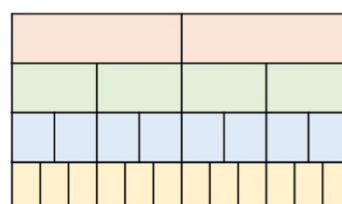
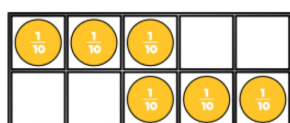
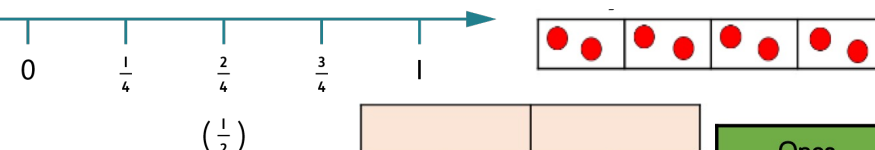
half quarter third equivalent decimal
equal unit fraction numerator percentage
non-unit fraction thousandth denominator
tenth hundredth mixed number improper fraction
decimal place



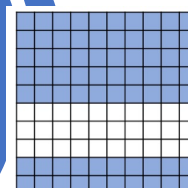
- Verbally count beyond 20, recognising the pattern of the counting system



YEAR 2



Ones	Tenths
0	8



- count up and down in tenths
- recognise, find and write fractions of a discrete set of objects
- recognise that tenths arise from dividing an object into 10 equal parts and in dividing 1 digit numbers or quantities by 10.
- recognise and use fractions as numbers
- compare and order unit fractions, and fractions with the same denominators

- recognise and show, using diagrams, equivalent fractions with small denominators

- add and subtract fractions with the same denominator within one whole

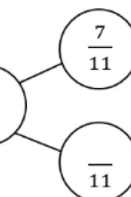
+ problem solving



YEAR 3



Cuisenaire Rods



$$\frac{2}{7} + \frac{2}{7} =$$

- count up and down in hundredths
- recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten

- compare numbers with the same number of decimal places up to two decimal places
- round decimals with one decimal place to the nearest whole number

- recognise and show, using diagrams, families of common equivalent fractions
- recognise and write decimal equivalents of any number of tenths or hundredths
- recognise and write decimal equivalents to $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$

YEAR 4

- compare and order fractions, including fractions > 1

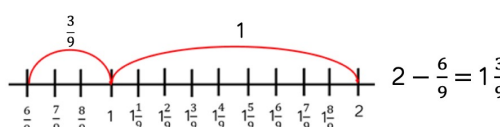
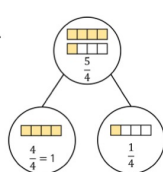
- identify the value of each digit in numbers given to three decimal places

- use common factors to simplify fractions; use common multiples to express fractions in the same denomination
- associate a fraction with division and calculate decimal fraction equivalents
- recall and use equivalences between simple fractions, decimals and percentages

- add and subtract fractions with different denominators and mixed numbers
- multiply simple pairs of proper fractions
- divide proper fractions by whole numbers

- multiply decimals by whole numbers
- multiply and divide numbers by 10, 100 and 1000

+ problem solving



$$0.3 = \frac{3}{10} = \frac{30}{100}$$

Tens	Ones	Tenths	Hundredths

Ones	Tenths	Hundredths

- add and subtract fractions with the same denominator

- find the effect of dividing a one- or two-digit number by 10 and 100

+ problem solving

YEAR 6

YEAR 5

- recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
- compare and order fractions whose denominators are all multiples of the same number

- read, write, order and compare numbers with up to three decimal places
- round decimals with two decimal places to the nearest whole number and to one decimal place

- identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
- read and write decimal numbers as fractions
- recognise mixed numbers and improper fractions and convert from one form to the other
- recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred", and write percentages as a fraction with 100 as the denominator

- 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