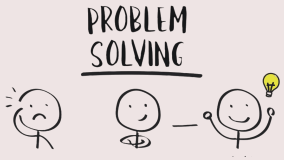
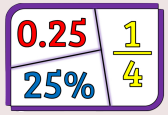
Fraction, Decimals & Percentages





Year 1

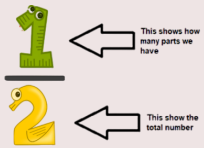
Summer

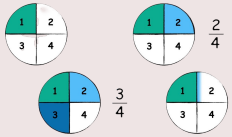
- I recognise, find and name a half as one of two equal parts of an object, shape or quantity I recognise, find and name a quarter as one of four equal parts of an object, shape or quantity

Year 2

Spring

- I write simple fractions and recognise the equivalence I recognise, find, name and write factions 1/3, 1/4, 2/4, 1/2, 3/4 of a length, shape, set of objects, or quantity





Year 3

Summer

- I recognise and show, using diagrams, equivalent fractions with small denominators
- I recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators
- I compare and order unit fractions, and fractions with the same denominators
- I add and subtract fractions with the same denominator within one whole
- I count up and down in tenths; recognise that tenths arise from dividing an object into ten equal parts and in dividing numbers or quantities by 10

Year 4

Spring

- I recognise and show, using diagrams, families of common equivalent fractions
- I add and subtract fractions with the same denominator
- I count up and down in hundredths; recognise that hundredths arise from dividing an object into one 100 equal parts and in dividing numbers or quantities by 100
- I recognise and write decimals equivalents of any number of tenths or hundredths
- I find the effect of dividing a 1- digit or 2-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredth
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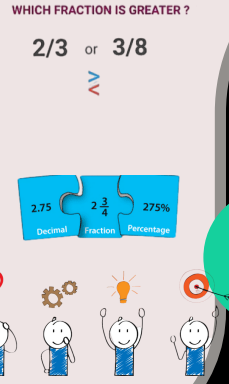
Summer

- I compare numbers with the same number of decimal places up to two decimal places I recognise and write decimal equivalents to 1/4, 1/2 and 3/4
- I round decimals with one decimal place to the nearest whole number

Year 5

Spring

- I identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
- I recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements
- I compare and order fractions whose denominators are all multiples of the same number I add and subtract fractions including mixed numbers
- I can multiply fractions and mixed numbers by whole numbers
- I read and write decimal numbers as fractions, e.g. 0.71 = 71/100
- I round decimals with two decimal places to the nearest whole number and to one decimal place
- I read, write, order and compare numbers with up to three decimal places
- I recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal
- I can make connections between percentages, fractions and decimals (for example, 100% represents a whole quantity and 1% is 1/100 part, 50% is half , 25% is a quarter, and relate this to finding 'fractions of' Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25 Find 10%, 25%, 50% and 75% of any given number by relating percentages to fractions



Year 6

Autumn

- I compare and order fractions, including fractions
- I use common factors to simplify fractions; use common multiples to express fractions in the same denomination
- I recall and use equivalences between simple fractions, decimals and percentages, including different contexts
- I add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
- I multiply simple pairs of proper fractions, writing the answer in the simplest form
- I divide proper fractions by whole numbers
- I associate a fraction with division to calculate decimal fraction equivalents, for simple fractions
- Find any percentage of amount, e.g. 5%, 20% or 34% of an amount by relating percentage to fraction equivalents