

Progression Document: Fractions

Year 1	I find a quarter of a shape or a set of objects by sharing the shape or set into four equal parts.				[KEY] I know that a half is one of two equal parts, and I find half of a shape or a set of objects by sharing the shape or set into two equal parts.				
Year 2	[KEY] I can find 1/3 or 1/4 or 2/4 or 3/4 of a shape, length or set of objects.				I can write simple fractions sentences such as 1/2 of 6 = 3 and know that 2/4 equals 1/2.				
Year 3	I can add and subtract fractions with the same denominator [for example, 5/7 + 1/7 = 6/7].	[KEY] I know that tenths can be found by dividing an object or shape into ten equal parts or by dividing numbers by 10.	I know how to find fractions of a number or shape - such as 3/5, 1/4 or 4/6.		[KEY] I can find a fraction (such as 2/5 or 3/4) of a set of objects.	I can compare and order unit fractions, and fractions with the same denominators.		I solve problems that finding, ordering or comparing fractions.	
Year 4	I can work out the fractions of numbers such as 4/5 of 25 or 7/10 of 700.	[KEY] I can show in drawings why a number of fractions equal each other (such as 3/5 and 6/10) and are called equivalent fractions.	I can tell you the decimal equivalents of any number of tenths or hundredths - such as 1/10 = 0.1 and 23/100 = 0.23.	I know what the decimal equivalents are for 1/4, 1/2 and 3/4.	[KEY] I can count up and down in hundredths and know that a hundredth is made by dividing an object by one hundred and a tenth is made by dividing an object by ten	[KEY] I can solve measure and money problems involving fractions and decimals to two decimal places.	I can add and subtract fractions with the same denominator.		I can divide a one- or two-digit number by 10 and 100 and I know what the tenths and hundredths mean after the decimal point.
Year 5	[KEY] I can solve problems including scaling by simple fractions and problems involving simple rates.	[KEY] I can compare and order fractions whose denominators are all multiples of the same number.	I use diagrams and some fraction tools to multiply proper fractions (7/10) and mixed numbers (1 7/10) by whole numbers.	I can name and write equivalent fractions of a given fraction, and show these in a drawing (including tenths and hundredths).	[KEY] I can read and write decimal numbers as fractions [for example, 0.71 = 71/100].	I know what mixed numbers and improper fractions are and I can convert from one to the other [for example, 2/5 + 4/5 = 6/5 = 1 1/5].	I can add and subtract fractions with the same denominator and denominators that are multiples of the same number.	[KEY] I work on 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.	I know what the per cent symbol is (%) 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.
Year 6	I can multiply fractions such as 1/4 x 1/2 = 1/8.	I know how to divide proper fractions by whole numbers [for example, 1/3 ÷ 2 = 1/6].	I can change a fraction into a decimal - for example, I can change 3/8 to 0.375 by dividing 1 by 8 and multiplying by 3.	[KEY] I know the decimal value, percentage and fraction of a range of values - such as 0.5, 50 per cent and 1/2.	I can use common factors to simplify fractions and use common multiples to express fractions in the same denomination.	I add and subtract fractions with different denominators and mixed numbers.		I can compare and order fractions, including fractions greater than 1.	