Maths Objectives – Fractions

Key Stage	Objective	Child Speak Target
KS 1 Y1	Recognise, find and name a half as one of two equal parts of an object, shape or quantity.	*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.*
KS 1 Y1	Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.	*I find a quarter of a shape or a set of objects by sharing the shape or set into four equal parts.*
KS 1 Y2	Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity.	*I can find 1/3 or 1/4 or 2/4 or 3/4 of a shape, length or set of objects.*
KS 1 Y2	Write simple fractions for example, 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2.	*I can write simple fractions sentences such as 1/2 of 6 = 3 and know that 2/4 equals 1/2.*
KS 2 Y3	Count up and down in tenths.	*I can count up and down in tenths.*
KS 2 Y3	Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.	*I know that tenths can be found by dividing an object or shape into ten equal parts or by dividing numbers by 10.*
KS 2 Y3	Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.	*I can find a fraction (such as 2/5 or 3/4) of a set of objects.*
KS 2 Y3	Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.	*I know how to find fractions of a number or shape - such as 3/5 ,1/4 or 4/6.*
KS 2 Y3	Recognise and show, using diagrams, equivalent fractions with small denominators.	*I can show that some fractions have the same value - such as 1/2, 3/6 and 5/10 or 1/3 and 3/9.*
KS 2 Y3	Add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7].	*I can add and subtract fractions with the same denominator [for example, 5/7 + 1/7 = 6/7].*
KS 2 Y3	Compare and order unit fractions, and fractions with the same denominators.	*I can compare and order unit fractions, and fractions with the same denominators.*
KS 2 Y3	Solve problems that involve my understanding of fractions.	*I solve problems that finding, ordering or comparing fractions.*
KS 2 Y4	Recognise and show, using diagrams, families of common equivalent fractions.	*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.*
KS 2 Y4	Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.	*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.*
KS 2 Y4	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.	*I can work out the fractions of numbers such as 4/5 of 25 or 7/10 of 700.*
KS 2 Y4	Add and subtract fractions with the same denominator.	*I can add and subtract fractions with the same denominator.*
KS 2 Y4	Recognise and write decimal equivalents of any number of tenths or hundredths.	*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.*
KS 2 Y4	Recognise and write decimal equivalents to 1/4, 1/2, 3/4.	*I know what the decimal equivalents are for 1/4, 1/2 and 3/4.*
KS 2 Y4	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 ones, tenths and hundredths.	*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.*
KS 2 Y4	Round decimals with one decimal place to the nearest whole number.	*I can round decimals with one decimal place to the nearest whole number.*
KS 2 Y4	Compare numbers with the same number of decimal places up to two decimal places.	*I can compare numbers such as 0.26 and 0.56 to say which is bigger or lower.*
KS 2 Y4	Solve simple measure and money problems involving fractions and decimals to two decimal places.	*I can solve measure and money problems involving fractions and decimals to two decimal places.*
KS 2 Y5	Compare and order fractions whose denominators are all multiples of the same number.	*I can compare and order fractions whose denominators are all multiples of the same number.*
KS 2 Y5	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.	*I can name and write equivalent fractions of a given fraction, and show these in a drawing (including tenths and hundredths).*
KS 2 Y5	Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements greater than 1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 1/5].	*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].*

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KS 2 Y5	Add and subtract fractions with the same denominator and denominators that are multiples of the same number.	*I can add and subtract fractions with the same denominator and denominators that are multiples of the same number.*
KS 2 Y5	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.	*I use diagrams and some fraction tools to multiply proper fractions (7/10) and mixed numbers (1 7/10) by whole numbers.*
KS 2 Y5	Read and write decimal numbers as fractions [for example, 0.71 = 71/100].	*I can read and write decimal numbers as fractions [for example, 0.71 = 71/100].*
KS 2 Y5	Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.	*I know what thousandths are and how to use them with tenths, hundredths and decimals.*
KS 2 Y5	Round decimals with two decimal places to the nearest whole number and to one decimal place.	*I can round decimals with two decimal places to the nearest whole number and to one decimal place.*
KS 2 Y5	Read, write, order and compare numbers with up to three decimal places.	*I can read, write, order and compare numbers with up to three decimal places.*
KS 2 Y5	Solve problems involving number up to three decimal places.	*I can solve problems involving numbers with up to three decimal places.*
KS 2 Y5	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 100, and as a decimal.	*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.*
KS 2 Y5	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.	*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.*
KS 2 Y6	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.	*I can use common factors to simplify fractions and use common multiples to express fractions in the same denomination.*
KS 2 Y6	Compare and order fractions, including fractions greater than 1.	*I can compare and order fractions, including fractions greater than 1.*
KS 2 Y6	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.	*I add and subtract fractions with different denominators and mixed numbers.*
KS 2 Y6	Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, 1/4 × 1/2 = 1/8].	*I can multiply fractions such as 1/4 × 1/2 = 1/8.*
KS 2 Y6	Divide proper fractions by whole numbers [for example, 1/3 ÷ 2 = 1/6].	*I know how to divide proper fractions by whole numbers [for example, 1/3 ÷ 2 = 1/6].*
KS 2 Y6	Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8].	*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.*
KS 2 Y6	Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.	*I can multiply and divide numbers by 10, 100 and 1000 and know what each digit means up to three decimal places.*
KS 2 Y6	Multiply one-digit numbers with up to two decimal places by whole numbers.	*I can multiply numbers such as 1.45 by a one digit number - for example 1.45 x 7.*
KS 2 Y6	Use written division methods in cases where the answer has up to two decimal places.	*I use written division methods in cases where the answer has up to two decimal places.*
KS 2 Y6	Solve problems which require answers to be rounded to specified degrees of accuracy.	*I can solve problems which include rounding to a required accuracy such as the nearest 10, 100 or 10000.*
KS 2 Y6	Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.	*I know the decimal value, percentage and fraction of a range of values - such as 0.5, 50 per cent and 1/2.*
KS3	Work interchangeably with terminating decimals and their corresponding fractions (such as 3.5 and 7/2 or 0.375 and 3/8).	
KS3	Define percentage as 'number of parts per hundred', interpret percentages and percentage changes as a fraction or a decimal, interpret these multiplicatively, express one quantity as a percentage of another, compare two quantities using percentages, and work with percentages greater than 100%.	
KS3	Interpret fractions and percentages as operators.	