| COUNTING IN FRACTIONAL STEPS |  |  |  |  |  |
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| EYFS - NUMBER - FRACTIONS |  |  |  |  |  |
| Understand that sharing is splitting an amount into equal parts |  | Understand that halving is sharing into two equal parts | Understand that doubling is adding the same number to itself | same number to $\quad$ Automatic | Automatically recall double facts to double 5 |
| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  | Pupils should count in fractions up to 10, starting from any number and using the1/2 and 2/4 equivalence on the number line (in steps of $1 / 2$ and $1 / 4$. | count up and down in tenths | count up and down in hundredths <br> Count on and back in steps of unit fractions. | Count on and back in mixed steps such as 1 1/2. |  |
| RECOGNISING FRACTIONS |  |  |  |  |  |
| recognise, find and name a half as one of two equal parts of an object, shape or quantity (including measure) | recognise, find, name and write fractions $1 /{ }_{3},{ }_{4},{ }_{4}, \frac{2}{4}$ and ${ }^{3} / 4$ of a length, shape, set of objects or quantity | recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators <br> recognise that tenths arise from dividing an object into 10 equal parts and in dividing one - digit numbers or quantities by 10. | recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten | recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (appears also in Equivalence) |  |
| recognise, find and name a quarter as one of four equal parts of an object, shape or quantity (including measure) | Understand that fraction can describe part of a set. | recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators |  |  |  |
| Understand that a fraction can describe part of a whole. | Understand that the larger the denominator is, the more pieces it is split into and therefore the smaller each part will be. |  | Recognise, find and write fractions of a discrete set of objects including those with a range of numerators and denominators. |  |  |
| Understand that a unit fraction represents one equal part of a whole. |  |  |  |  |  |
| COMPARING FRACTIONS |  |  |  |  |  |
|  |  | compare and order unit fractions, and fractions with the same denominators including on a number line. | Compare and order unit fractions and fractions with the same denominators (including on a number line) | compare and order fractions whose denominators are all multiples of the same number (including on a number line) | compare and order fractions, including fractions >1 (including on a number line) |
| COMPARING DECIMALS |  |  |  |  |  |
|  |  |  | compare numbers with the same number of decimal places up to two decimal places | read, write, order and compare numbers with up to three decimal places | identify the value of each digit in numbers given to three decimal places |
| ROUNDING INCLUDING DECIMALS |  |  |  |  |  |
|  |  |  | round decimals with one decimal place to the nearest whole number | round decimals with two decimal places to the nearest whole number and to one decimal place | solve problems which require answers to be rounded to specified degrees of accuracy |
| EQUIVALENCE (INCLUDING FRACTIONS, DECIMALS AND PERCENTAGES) |  |  |  |  |  |
|  | write simple fractions e.g. ${ }^{1} / 2$ of $6=3$ and recognise the equivalence of ${ }^{2} / 4$ and ${ }^{1} /{ }_{2}$. | recognise and show, using diagrams, equivalent fractions with small denominators | recognise and show, using diagrams, families of common equivalent fractions | identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths | use common factors to simplify fractions; use common multiples to express fractions in the same denomination |
|  |  |  | recognise and write decimal equivalents of any number of tenths or hundredths | read and write decimal numbers as fractions (e.g. $0.71={ }^{71} /{ }_{100}$ ) | associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. ${ }^{3} / 8$ ) |
|  |  |  | recognise and write decimal equivalents to ${ }_{1} I_{4} ;{ }_{1} ;{ }^{3}{ }^{3}$ | 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 as a decimal fraction | recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. |



|  |  |  |  |  | solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts <br> solve problems involving the calculation of percentages [for example, of measures, and such as $15 \%$ of 360 ] and the use of percentages for comparison solve problems involving similar shapes where the scale factor is known or can be found |
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| VOCABULARY |  |  |  |  |  |
| fraction, part, equal parts, one whole, one half, two halves, one quarter, two... three... four quarters, (numerator, denominator) | fraction, numerator, denominator, part, equal parts, one whole, one half, two halves, one quarter, two..., three..., four quarters, equivalence, unit fraction, nonunit fraction, | part, equal parts, fraction, one whole, one half, two halves, one quarter, two quarters, three quarters, four quarters, one third, two thirds, three thirds, one tenth, numerator, denominator, unit fraction, non-unit fraction, multiplication, division, inverse, lots of, groups of, array, row, column, share equally, group in ..., equal groups of, divide, divided by, divided into, left (over), remainder, estimate, efficient, partition, multiple, equivalent, compare, order | part, equal parts, fraction, one whole, tenth, twentieth, proportion, in every, for every, decimal, decimal fraction, decimal point, decimal place, units, ones, tenths, hundredths, numerator, denominator, equivalent, divided by, divided into, remainder, factor, quotient, divisible by, inverse, estimate | fraction, proper/improper fraction, fraction, numerator, denominator, equivalent, reduced to, cancel, on whole, half, quarter, eighth, third, sixth, ninth, tweltth, fitth, tenth, twentieth every, to every, decimal, decima fraction, decimal point, decimal place, part, equal parts, | fraction, proper fraction, improper fraction, unit fraction, non-unit fraction, mixed number, numerator, denominator, equivalent, reduced to, cancel, one whole, half, quarter, eighth, hundredth, thousandth, proportion, ratio, decimal, vulgar fraction, decimal fraction, decimal point, percentage, percent, \% |

