## Number: Fractions (including Decimals and Percentages)

| Counting in Fractional Steps |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pre-school | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  |  |  | Pupils should count in fractions up to 10 , starting from any number \&using the $1 / 2$ \& 2/4 equivalence on the number line (N.S.G) | count up and down in tenths | count up and down in hundredths |  |  |
| Recognising Fractions |  |  |  |  |  |  |  |
|  |  | recognise, find and name a half as one of two equal parts of an object, shape or quantity <br> recognise, find and name a quarter as one of four equal parts of an object, shape or quantity | recognise, find, name and write fractions ${ }^{1} / 3^{\prime}$ ${ }^{1} / 4^{\prime}{ }^{2} / 4$ 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 nonunit 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 and use fractions as numbers: unit fractions and nonunit fractions with small denominators | recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten |  |  |
| Comparing Fractions |  |  |  |  |  |  |  |
|  |  |  |  | compare and order unit fractions, and fractions with the same denominators | Convert mixed numbers to improper fractions and vice versa. | compare \& order fractions whose denominators are all multiples of the same number | compare and order fractions, including fractions >1 |
| 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 |




|  |  |  |  |  | tenths and hundredths |  | answers are up to three decimal places |
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|  |  |  |  |  |  |  | identify the value of each digit to three decimal places and multiply and divide numbers by 10,100 and 1000 where the answers are up to three decimal places |
|  |  |  |  |  |  |  | associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. ${ }^{3} / 8$ ) |
|  |  |  |  |  |  |  | use written division methods in cases where the answer has up to 2 decimal places |
|  |  |  | Problem | Solving |  |  |  |
|  |  |  |  | solve problems that involve all of the above | 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 | solve problems involving numbers up to three decimal places <br> solve problems which require knowing percentage and decimal equivalents of |  |
|  |  |  |  |  | solve simple measure and money problems involving fractions and decimals to two decimal places. | those with a denominator of a multiple of 10 or 25. |  |

