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| **COUNTING IN FRACTIONAL STEPS** |
| 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 (Non Statutory Guidance)* | 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  | recognise, find, name and write fractions 1/3, 1/4, 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  | 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 that tenths arise from dividing an object into 10 equal parts and in dividing one – digit numbers or quantities by 10. |
| recognise, find and name a quarter as one of four equal parts of an object, shape or quantity | recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators |
| **COMPARING FRACTIONS** |
|  |  | compare and order unit fractions, and fractions with the same denominators  |  | compare and order fractions whose denominators are all multiples of the same number  | compare and order fractions, including fractions >1  |

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| **COMPARING DECIMALS** |
| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  |  |  | 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 use thousandths and relate them to tenths, hundredths and decimal equivalents |
|  |  |  | recognise and write decimal equivalents to 1/4; 1/2; 3/4  | 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. |
| **ADDITION AND SUBTRACTION OF FRACTIONS** |
| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  |  | add and subtract fractions with the same denominator within one whole (e.g. 5/7 + 1/7 = 6/7)  | add and subtract fractions with the same denominator  | add and subtract fractions with the same denominator and multiples of the same number  | add and subtract fractions with different denominators and mixed numbers, using theconcept of equivalent fractions  |
| recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (e.g. 2/5 + 4/5 = 6/5 = 11/5) |
| **MULTIPLICATION AND DIVISION OF FRACTIONS** |
|  |  |  |  | multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams  | multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. 1/4 × 1/2 = 1/8) |
| multiply one-digit numbers with up to two decimal places by whole numbers  |
|  |  |  |  |  | divide proper fractions by whole numbers (e.g. 1/3 ÷ 2 = 1/6 ) |
| **MULTIPLICATION AND DIVISION OF DECIMALS** |
| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  |  |  |  |  | multiply one-digit numbers with up to two decimal places by whole numbers  |
|  |  |  | find the effect of dividinga one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths  |  | multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places |
|  |  |  |  |  | identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100and 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 two decimal places |
| **PROBLEM SOLVING** |
| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  |  | 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  |  |
|  |  |  | solve simple measure and money problems involving fractions and decimals to two decimal places. | solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those with a denominator of a multiple of 10 or 25. |  |