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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  1 1 2  write fractions / , / , /  3 4 4  3  and / of a length, shape,  4 | Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions | 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 |  |
|  | set of objects or quantity | with small denominators |  | 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 |  | Recognise and use |  |  |
| a quarter as one of four |  | fractions as numbers: unit |  |  |
| equal parts of an object, |  | fractions and non-unit |  |  |
| shape or quantity |  | fractions with small |  |  |
|  |  | denominators |  |  |
| **COMPARING FRACTIONS** | | | | | |
|  |  | Compare and order unit |  | Compare and order | Compare and order |
| fractions, and fractions | fractions whose | fractions, including |
| with the same | denominators are all | fractions >1 |
| denominators | multiples of the same |  |
|  | number |  |

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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 | Recognise and show, using diagrams, equivalent fractions with small denominators | Recognise and show, using | Identify, name and write equivalent | Use common factors to simplify |
| 1  e.g. / of 6 = 3 and | diagrams, families of | fractions of a given fraction, | fractions; use common |
| 2  recognise the  2 | common equivalent  fractions | represented visually, including tenths  and hundredths | multiples to express fractions  in the same denomination |
| equivalence of / and |  |  |  |
| 4 |  |  |  |
| 1 |  |  |  |
| / . |  |  |  |
| 2 |  |  |  |
|  |  |  | Recognise and write decimal equivalents of any number of tenths or hundredths | Read and write decimal numbers as  71  fractions (e.g. 0.71 = / )  100 | Associate a fraction with division and calculate decimal fraction equivalents (e.g.  0.375) for a simple fraction  3  (e.g. / )  8 |
| Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents |
|  |  |  | Recognise and write decimal  1 1 3  equivalents to / ; / ; /  4 2 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. |

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| **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  5 1 6  whole (e.g. / + / = / )  7 7 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 the concept 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  2 4 6  number (e.g. / + / = /  5 5 5  1  = 1 / )  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  1 1 1  form (e.g. / × / = / )  4 2 8 |
| Multiply one-digit numbers with up to two decimal places by whole  numbers |
|  |  |  |  |  | Divide proper fractions by  1  whole numbers (e.g. / ÷  3  1  2 = / )  6 |

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| **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 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 |  | 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, 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 two decimal places |

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| **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  1 1 1  equivalents of / , / , / ,  2 4 5  2 4  / , / and those with a  5 5  denominator of a multiple  of 10 or 25. |  |