Sherdley Primary School
2022-2023
Maths: Fractions including decimals \& percentages Progression Statements - End of year expectations


Maths: Fractions including decimals \& percentages Progression Statements - End of year expectations

|  |  | COMPARING DECIMALS |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Preschool | Reception | 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 <br> e.g. ${ }^{1} /$ of $6=3$ and <br> 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 $={ }^{71} /{ }_{100}$ ) <br> Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents | 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 ${ }^{1} / 4^{i}{ }^{1} / 2_{2}{ }^{3} /{ }_{4}$ | 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. |

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|  |  | MULTIPLICATION AND DIVISION OF DECIMALS |  |  |  |  |  |
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| Preschool | Reception | 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 |
|  |  | 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 | Solve problems which require knowing percentage and decimal |  |

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|  |  |  |  |  | two decimal places. | equivalents of ${ }^{1} /{ }_{2}, /_{4}^{\prime}{ }^{1} /{ }_{5}$, ${ }^{2} /{ }_{5},^{4} /$ and those with a denominator of a multiple of 10 or 25 . |  |
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