

## Progression in Fractions (inc. decimals and percentages)




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

