## Maths - Year 5

## Numbers and the Number System 7: Solving problems with fractions, decimals and percentages



## Mathematical Methods

Finding equivalents of $1 \%$ and other percentages.


- Finding percentages of amounts other than 100 e.g. $1 \%$ of 300 is 3.
 Therefore, $2 \%$ is 6 .

- Finding equivalents of multiples of $10 \%$ and finding percentages of amounts e.g.

$$
\frac{1}{10}=\frac{10}{100}=0.1=10 \% \text { so } \frac{2}{10}=\frac{20}{100}=0.2=20 \% \text { etc. }
$$

- Finding equivalents of commonly used fractions e.g.

$$
\frac{1}{2}=\frac{50}{100}=0.5=50 \%
$$

| 0 | $\frac{1}{4}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 |
| :---: | :---: | :---: | :---: | :---: |
| 0 | 0.25 | 0.5 | 0.75 | 1 |
| $0 \%$ | $25 \%$ | $50 \%$ | $75 \%$ | $100 \%$ |

Using percentages as proportions of quantities.


- Using percentages as operators e.g.



## Can you..?

- Write $30 \%$ as a fraction and as a decimal.

A book costs $£ 10.00$. There is a $15 \%$ discount. How much will the book be after the discount?

Calculate $50 \%$ of $£ 4.64$.

- Calculate $25 \%$ of $£ 48.00$

