## Maths - Year 5

## Calculating 11: Percentages

| Key Vocabulary |  |
| :--- | :--- |
| Percentage | Used to show a fraction 'out of <br> 100 ' with the symbol \%, e.g. 50\%. |
| Per cent | Means 'out of 100'. |
| Proportion | Used to express a fraction of a <br> whole, e.g. the proportion of <br> grapes in a bag that are green <br> could be expressed as $1 / 2$. |

## Mathematical Skills

- Notice the relationships between fractions, decimals and percentages.
- Order percentages, fractions and decimals on a number line.
- Apply understanding of number relationships to solve problems involving percentages.
- Use known number facts to solve problems involving percentage e.g. $3 \times 25=75$ and $3 \times 12=36$, so if $25 \%$ is $£ 1.20$, then $75 \%$ is $£ 3.60$.


## Mathematical Methods

- Understanding the term 'per cent' e.g. 50 out of $100(50 \%)$ are covered.
- Consolidating understanding of per cent as 'parts per hundred'.

$8 \%$ is the same as 8 parts
per 100 or $\frac{8}{100}$
- Finding percentages that total 100 e.g. $95 \%+5 \%=100 \%$.
- Visualizing 50\% using knowledge of fractions.

- Using a known percentage to find other percentages
e.g. finding $50 \%$ of a shirt costing $£ 80$.

- Exploring the relationship between percentages, fractions and decimals e.g.
$10 \%=0.1=\frac{10}{100}=\frac{1}{10}$


## Can you..?

- Ben's great-grandma is 100 years old. Ben is 10 years old. What percentage of his great-grandma's age is he?
- Think of a percentage that is less than $1 / 4$.
- There is a $25 \%$ sale. How much would a jumper costing $£ 16$ cost you in the sale?
- Order these amounts from smallest to largest.


