

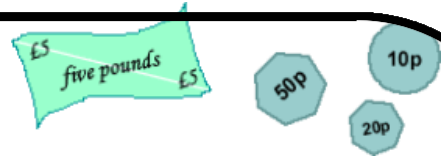
Y6 - Percentages

The focus of this home learning is **percentages**.

We will learn how to:

- Solve problems involving the calculation of percentages of whole numbers or measures.
- Recall and use the equivalences between simple fractions, decimals and percentages (e.g. $\frac{1}{4} = \frac{25}{100} = 0.25 = 25\%$).

Activities & Games!



★ **Would You Rather?** Would you rather.have 10% of £5 or 75% of 80p? Be given 60% of 2 pizzas or 26% of 5 pizzas? Be bitten by 15% of 120 mosquitoes or 8% of 250 mosquitoes?

Try answering these questions and then come up with some of your own to challenge people at home. Have a go at including some where the different percentages of the two amounts equal the same, such as 25% of £200 or 50% of £100? Begin with simple calculations and get progressively more complicated.

★★ **Percentage Mad!** What is 20% of 30% of 40% of £50?

What is 10% of 25% of 60% of £120?

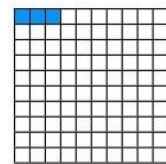
What is 5% of 12% of 50% of 300?

What is 9% of 20% of 35% of 400?

★★★ **Maths Exam** A maths exam contained only two questions. Problem 1 was solved by 70% of the pupils. Problem 2 was solved by 60% of them. Every pupil solved at least one of the problems. Nine pupils solved both problems. How many pupils took the exam?

In the following year the maths exam contained two percentage problems. This time each problem was solved by 72% of the pupils and every pupil got at least one problem right again. What can you say about the number of pupils in the class?

★ **100 Square** Create, and print off, lots of mini 100 squares like this. What fractions, percentages and decimals can you represent with them?



Going deeper...

THE ELECTION QUESTION

On Math-Land TV, a political commentator summed up an election result as follows:

A Labour majority of 1729 last time has been turned into a Conservative majority of 1654 in the latest election, and the conservative candidate has obtained 38% of the poll. Labour has taken second place. The Liberal Democrat has obtained only 14% of the poll and has been beaten into fourth place by the SNP candidate who has 50 more votes than the Liberal Democrat.

Given that there were just four candidates and that the figures quoted were exact, find the number of votes polled for each candidate.

Wonderful websites

[100 Percent](#)

[Matching Cards](#)

Whilst it can be very tempting to encourage your child to have a go at the more challenging activities, it is far better to work with them at a level they feel confident with. Significant and regular practise of even the most basic skills outlined in this document will lead to a much deeper understanding and greater proficiency, and ultimately a much more pleasant 'homework' experience for you and your child!