

## Week 3: Percentages

### What does it mean?

Percentage means out of 100.

We use it in everyday life such as: shopping, facts and figures, including results in school.

You will learn about percentages of whole numbers, percentage increase and decrease and also, adding and subtracting percentage amounts from whole numbers.

The following activity focuses on percentages of whole numbers.

The key amounts are:

10% - Dividing by 10	1% - Dividing by 100
50% - Half	5% - Half of 10%
25% - A quarter	20% - Double 10%



**Need more guidance?** [click here for video](#)

### Task



Using the hints above, see if you can calculate the percentage amounts of the following numbers.

- |                     |                     |
|---------------------|---------------------|
| a) 10% of 32 _____  | k) 70% of 90 _____  |
| b) 15% of 78 _____  | l) 30% of 60 _____  |
| c) 5% of 60 _____   | m) 5% of 68 _____   |
| d) 20% of 80 _____  | n) 16% of 74 _____  |
| e) 50% of 64 _____  | o) 50% of 15 _____  |
| f) 60% of 50 _____  | p) 45% of 52 _____  |
| g) 11% of 32 _____  | q) 4% of 25 _____   |
| h) 34% of 48 _____  | r) 90% of 27 _____  |
| i) 25% of 200 _____ | s) 10% of 750 _____ |
| j) 75% of 40 _____  | t) 99% of 62 _____  |

### Problem Solving

Question 1: A primary school has 212 students.  
50% of the students are boys.  
How many of the students are boys?

Question 2: There are 800 fans at a rugby match between Armagh and Malone.  
30% of the fans support Malone.  
How many fans support Malone?



Question 3: Hannah is paid £280.  
She spends 30% on her rent, 25% on food and bills and saves the rest.

- (a) How much does Hannah spend on rent?
- (b) How much does Hannah spend on food and bills?
- (c) How much does Hannah save?

Question 4: There are 220 students in Year 7.  
15% cycle to school.  
60% are driven to school.  
The rest walk to school.

- (a) How many students cycle to school?
- (b) How many students are driven to school?
- (c) How many students walk to school?

## Weekly Challenge

***Ann purchased a house for £135000. She wants to sell it for a profit of exactly 12%. However, she does not want to sell it herself. She wants an Estate Agent to sell it for her. The Agent must make a commission of exactly 5.5% (in addition to Ann's 12% profit). How much must the Agent sell the house for? Give your answer to the nearest Pound.***



**Now complete the online quiz:**

[click here for video](#)