

# Calculating Averages

## Method and Worked Example

To calculate the average of a set of numbers, add up the figures provided and divide the total by the **number of items** you have added up.

For example, Jennie works as a window cleaner and for the last 5 weeks has earned the following revenue from cleaning windows for residents in her local community:

Week Number	1	2	3	4	5
Revenue (£)	300	290	335	310	340

In order to calculate Jenny's average weekly earnings from her window cleaning business, the figures are added up ( $300 + 290 + 335 + 310 + 340$ ) to give £1 575 and then divided by 5 (because there are 5 numbers in total) to give £315. Therefore, Jenny's average weekly revenue from this 5 week period is £315.

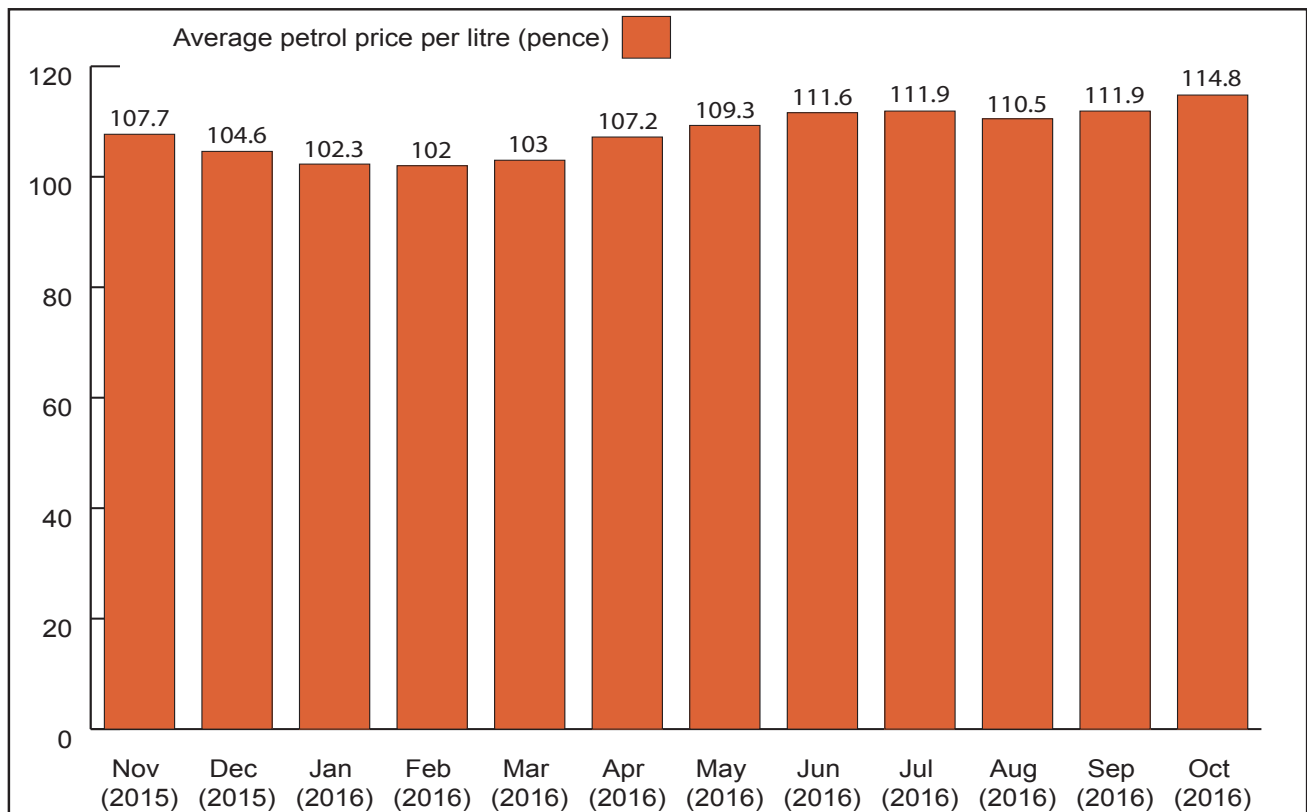
Add up each figure to get the total

Number of figures

Remember, to calculate an average:

## Question 1

The graph below shows the average petrol price per litre, in pence, between November 2015 and October 2016.



Calculate the average petrol price per litre, in pence, between December 2015 and June 2016 inclusive. Give your answer to 1 d.p.

## Question 2

The table below shows the number of people having their hair cut in a city centre salon. **The owner of the salon, Guy Masters, wants you to calculate the average number of customers he has had per month, for the months shown below. Give your answer to the nearest whole number.**

Month	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct
Number of customers	394	418	323	471	385	401	332	279	412	437

## Question 3

Jimmy Woodman owns a business that recovers broken down vehicles. He wants to know, on average, how many people he has rescued in each quarter of his most recent trading year. **Using the information in the table below, calculate the information Jimmy wants to find out.**

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Number of recovered vehicles	40	35	30	42	27	36	31	30	44	35	46	48

## Question 4

The below data shows the percentage score for bakery stores that were part of a 'mystery shopping' survey to assess customer service standards. **Calculate the average percentage score for the stores visited. Give your answer to 2 d.p. and use the correct unit of measurement.**

Store	1	2	3	4	5	6	7
Score (%)	74	92	87	91	85	78	79

## Answer

### Question 1

105.7

### Question 2

385

### Question 3

37

### Question 4

83.71%