# University of Reading LogoUniversity of Reading LogoTemperature data for British cities

## **Calculate the mean average**

We want to find out how the average temperature of Britain has changed in the past 10 years.
This will tell us if there are any patterns to what is happening to the temperature of the Britain.
We will then compare our results to the climate stripes.

To do this we are going to average the temperature of three cities in the Britain.

$$Mean=\frac{Sum the temperature of the cities}{The number of cities used}$$

*As an extra challenge: Do this by hand first, and then check with a calculator.*

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| --- | --- | --- | --- | --- |
| **Year** | **London (°C)** | **Manchester (°C)** | **Birmingham****(°C)** | **Mean average British temperature (°C)****(show your working)** |
| 2015 | 11.0 | 9.4    |    10.3    |  |
| 2016 | 10.9    | 9.6    | 10.3    |  |
| 2017 | 11.1    | 9.9    | 10.7    |  |
| 2018 | 11.3    | 9.9    | 10.6    |  |
| 2019 | 11.0    |  9.7    | 10.3    |  |
| 2020 | 11.5    | 9.9    |   10.8    |  |
| 2021 | 10.7    | 9.6    | 10.4    |  |
| 2022 | 11.8    | 10.3    |   11.1    |  |
| 2023 | 11.6    | 10.3    | 11.0    |  |
| 2024 | 11.6 | 10.2    | 10.9    |  |

The temperatures may seem quite low – this is because this is the average temperature
for the whole year which includes all four seasons.