### Statistical parameters

**STATISTICS**

08

**Calculation of statistical parameters**

Statistics is a discipline that studies situations that cannot be predicted with certainty, but on which we can gather information. It is a discipline that deals with almost any aspect of our life and that has important applications in politics, sociology, medicine ..., as well as in more playful activities, such as sports events.

Below are two examples, with ungrouped data and grouped data, respectively.

Stephen Curry is an NBA player who plays for the Golden State Warriors. The averages number of points scored per season, until 2016, are as follows:



**1**

|  |  |
| --- | --- |
| Season | Average points scored |
| 2009/10 | 17.5 |
| 2010/11 | 18.6 |
| 2011/12 | 14.7 |
| 2012/13 | 22.9 |
| 2013/14 | 24 |
| 2014/15 | 23.8 |
| 2015/16 | 30 |

Find the career average number of points scored and the standard deviation.

Below is a statistical table with the goals that F.C Barcelona (soccer team) made during the 2014/15 season:



**2**

|  |  |
| --- | --- |
| No. of goals | No. of games |
| 0 | 5 |
| 1 | 5 |
| 2 | 10 |
| 3 | 5 |
| 4 | 2 |
| 5 | 6 |
| 6 | 4 |
| 8 | 1 |
| TOTAL | 110 |

Find the average number of goals per game and the standard deviation.

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