1. For each of the data sets below, decide whether the information would be best displayed as a line graph, bar chart or pie chart.

IGD are a retail analysts who recently provided the following estimates:

* IGD expects the UK grocery market to be worth £179.1bn in 2016, an increase of 0.6% on 2015
* We forecast that the UK grocery market value will be worth £196.9bn in 2021
* The grocery market accounts for 50.2p in every £1 of UK retail sales

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| --- | --- | --- | --- |
| Data set | Line graph | Bar chart | Pie chart |
| Data showing the market share of the leading supermarkets in the UK |  |  |  |
| Data showing the profitability of a business over a 10-year period |  |  |  |
| A set of data which highlights the number of complaints received customers for each branch of a local building society |  |  |  |

2. Considering the second bullet point, calculate the percentage increase in sales in 2021 compared to the expected sales value in 2016?

3. If the grocery market accounts for 50.2p in every £1 of UK retail sales, calculate the estimated value in UK retail sales in 2016?

4. State whether a pie chart, bar chart or line graph would be best to show the grocery market as a percentage of total UK retail sales?

3. Construct a pie chart to highlight the market shares of the firms in the global chocolate market.

A student at Harvard has calculated the market share of firms in the global chocolate market. The results are:

|  |  |
| --- | --- |
| **Nestle** | 27% |
| **Fevrier** | 17% |
| **Cadbury** | 15% |
| **Kraft** | 13% |
| **Hershey** | 13% |
| **Barry Callebaut** | 7% |
| **Ferrero** | 4% |
| **Lindt** | 4% |

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