

67 PRACTICE AT DISPLAYING DATA

- 1 a This table gives the latest life expectancy tables for some countries.
- Draw a bar chart with the bars for males and females on the same graph.
- You will need to start your vertical axis at 55.
- Use this  symbol to show the scale does not start at zero.

Life Expectancy at Birth		
Country	Male	Female
Australia	75.4	81.1
Canada	73.0	79.8
China	66.7	70.4
France	72.9	81.1
Italy	73.5	80.0
Japan	76.1	82.2
New Zealand	78.0	82.2
Papua New Guinea	55.2	56.7
United Kingdom	73.5	79.0
USA	72.0	78.9

- b Which country has the highest life expectancy for males?
- c Which country has the lowest life expectancy for females?
- d You could find out more about life expectancy and the reasons for the differences.
- The internet might be a good source of information.

Time	Percentage of CO ₂ in Air
0000	0.053
0300	0.047
0600	0.041
0900	0.036
1200	0.034
1500	0.033
1800	0.035
2100	0.039
0000	0.051

Scientists measured the percentage of carbon dioxide in the air in a field of wheat every three hours.

Draw a suitable graph to show this data.

What can you tell from your graph about the CO₂ level in the air in a field of wheat?



- 2 Some of the people who worked at **Office Services** thought their offices were overcrowded.
- They collected this data on the number of people in each office and the floor area.

Office Number	Number of People	Floor Area(m ²)
84	7	50
85	10	85
86	12	64
87	14	110
88	8	74
89	3	49
90	15	105

- a Draw a bar chart of the numbers of people in each office.
- b Draw a bar chart graph of the floor area of each office.
- c Can you tell by looking at these two graphs, which offices are the most overcrowded?
- d Calculate the average floor area per person for each office. Draw a suitable graph of the results for each office.
- e Which two offices are the most overcrowded?

- 4 a Could any other graph have been used to display the data in **questions 1, 2 and 3**?
- If so display the data on it.
- b Which graph shows the data better? Explain your answer.