

I can draw and interpret bar-line charts and pictograms.

Example

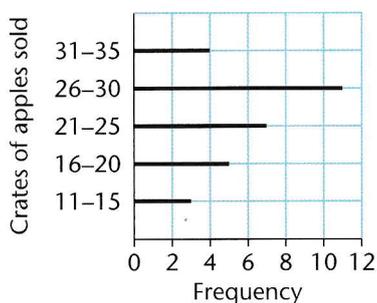
The numbers of crates of apples sold in a supermarket each day in June.

27 20 31 23 18 29 14 26 25 33
 22 28 13 30 24 31 27 27 29 17
 27 16 32 29 23 15 28 24 19 26

The data can be grouped and then organised using a tally chart.

Crates	Tally	Frequency
11-15		3
16-20		5
21-25		7
26-30		11
31-35		4

The data in the tally chart can be presented in a bar-line chart.



On how many days were more than 30 crates of apples sold?

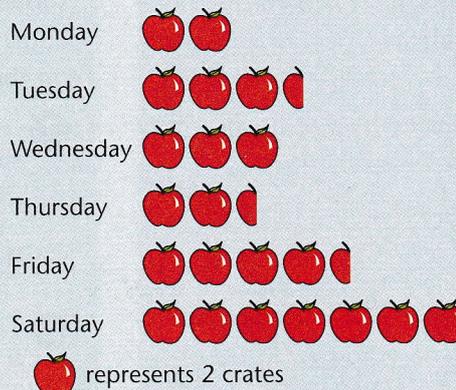
4

On how many days were less than 21 crates sold?

8 (5 plus 3)

A

1 This pictogram shows the numbers of crates of apples sold in a greengrocer's in one week.



- How many crates of apples were sold on Tuesday?
- On which day were 5 crates sold?
- How many more crates were sold on Saturday than on Friday?
- How many fewer crates were sold on Monday than on Tuesday?
- How many crates of apples were sold in the week altogether?

2 Present the data from the pictogram above in a bar-line chart.

3 Write down one way in which:

- the pictogram presents the information more clearly
- the bar-line chart presents the information more clearly.

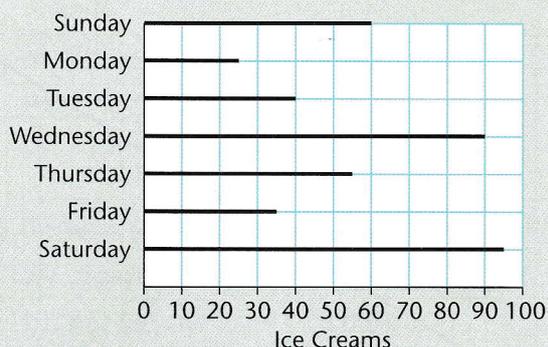
4 The lengths in numbers of completed pages of the stories written by Class 6.

3 2 4 3 5 3 4 4 2 3
 4 3 5 2 3 4 1 2 3 4
 5 3 1 4 3 2 4 5 3 2

Make a tally chart and then draw a bar-line chart to show the results.

B

- 1 This bar-line chart shows the numbers of ice creams sold by a cafe in one week.



- How many ice creams were sold on Monday?
- On which day were 55 ice creams sold?
- How many more ice creams were sold on Saturday than on Friday?
- Why do you think more ice creams were sold on Wednesday than on Tuesday?
- How many ice creams were sold in the week altogether?
- What was the range of the numbers of ice creams sold?

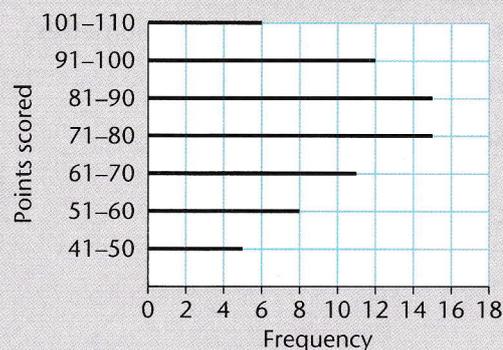
- 2 The numbers of fish caught by 40 anglers in a competition.

5 8 17 6 13 6 9 22 7 12
 19 9 3 11 8 4 16 8 15 10
 13 8 21 7 2 14 8 20 6 4
 8 15 5 18 10 5 23 9 11 16

- What number of fish caught was the mode?
- What was the largest number of fish caught?
- What was the smallest number of fish caught?
- What was the range of numbers of fish caught?
- Make a tally chart and then present the results in a bar-line chart.

C

- 1 This bar-line chart shows the numbers of points scored by a basketball team in all their games in three years.



- In how many games did the team score more than 80 points?
 - In how many games did the team score 70 points or less?
 - How many games were played in the three years?
 - In what proportion of the games did the team score more than 90 points?
 - In what proportion of the games did the team score 70 points or less?
- 2 The times in minutes when goals were scored in 10 Premiership matches are shown:
- 36 87 53 7 73 28 85 64 43 78
 71 15 80 59 83 45 90 21 84 52
 60 90 41 82 65 11 48 76 38 69
- Group the data in six 15 minute intervals.
 - Make a tally chart and present the results in a bar-line chart.
- 3 What proportion of the goals were scored in:
- the second half
 - the last third?
- 4 What might explain this uneven distribution. Use the football results published in newspapers to investigate further.