- 1 Find the mean of the following data sets. Where necessary, state your answers correct to 2 decimal places.
  - (a) The following data represents the number of cars that passed the school gate in a number of 5-minute periods.
    - 7, 14, 12, 11, 13, 16, 17, 9, 7, 12, 13, 15
  - (b) The following data represents the number of brothers and sisters for the students in two Year 11 classes.

Number of brothers and sisters ( <i>x</i> )	Frequency (f)
0	6
1	11
2	18
3	9
4	3

2 Find the median of the following data sets.

(a) 1, 4, 3, 2, 6, 4, 8, 9, 4, 3, 1

(c) Score (x) Frequency (f)0 3 1 6 2 7 3 4 3

1

4

5

3 Find the median class interval for the following data set

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Time (x)	Frequency (f)
12-<12.5	3
12.5-<13	5
13-<13.5	4
13.5-<14	11
14-<14.5	6

4 Find the mode of the following data sets.

6 Find the interquartile range for the following data sets.

- 7 Complete the five-number summary and use it to draw the box plot for each of the following data sets.
  - (a) 2, 3, 5, 5, 5, 6, 8, 9, 10, 11, 12, 15
- **(b)** 2, 5, 9, 11, 12, 9, 8, 7, 12, 14, 13, 22, 15, 18

8 Find the five-number summary, IQR and range for each of the following data sets. Then create a box plot.

(a)	Score	Frequency (f)
	0	3
	1	6
	2	7
	3	4
	4	3
	5	1

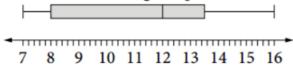
(c)	Stem	Leaf	
	1	12334458	
	2	2345	
	3	016621	
	4	2239	
	5	09	
	6	18	Key: 5 9 = 59
			/

9 Determine if any of the values in the following data sets would be regarded as outliers.

(a) 1, 2, 17, 18, 19, 22, 24, 26, 27, 28

**(b)** 5, 9, 11, 13, 17, 18, 19, 19, 29

13 Look at the following box plot.



The IQR is closest to:

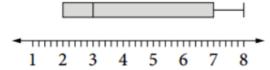
**A** 9

**B** 1

C 5.5

**D** 1.5

**14** Look at the following box plot. Find the range.



- **17** For each of the following data sets, calculate:
  - (i) the value below which outliers would occur
  - (ii) the value above which outliers would occur.

