

UNIT 5 *Data Analysis*

Extra Exercises 5.1

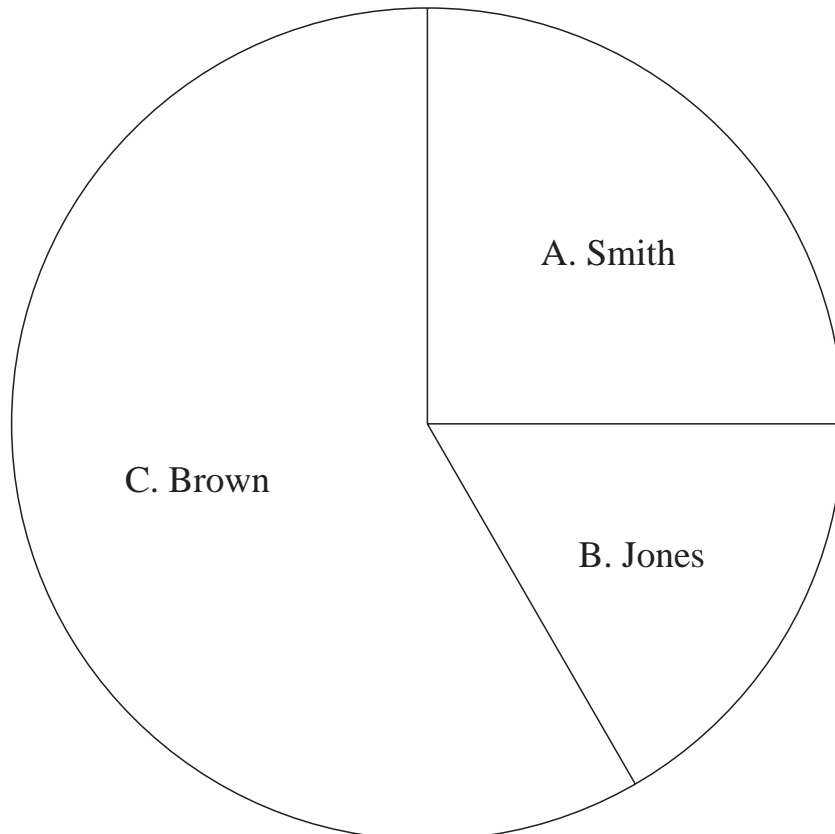
1. A traffic warden kept a record of the number of parking fines he issued every time he visited Hillsdunne Road. The numbers he recorded are listed below:

4 1 2 0 3 1 0 0 2 3
 1 2 3 7 0 1 2 3 1 0

- (a) Copy and complete the following table:

<i>Number of Parking Fines</i>	<i>Tally</i>	<i>Frequency</i>
0		
1		
2		
3		

- (b) Draw a pie chart to illustrate this data.
 (c) Draw a vertical line graph to illustrate this data.
2. The following pie chart shows how 60 people voted for 3 candidates in an election. How many people voted for each candidate?



UNIT 5 *Data Analysis***Extra Exercises 5.2**

1. Calculate the *mean*, *median*, *mode* and *range* for each set of data below:
- (a) 5, 7, 4, 10, 4
- (b) 5, 7, 11, 12, 3, 7, 9, 8, 9, 7
- (c) 6, 2, 4, 18, 18, 21
2. Calculate the *mean*, *median*, *mode* and *range* for each set of data given in the table below.

(a)

<i>Score</i>	<i>Frequency</i>
0	6
1	2
2	8
3	3
4	1

(b)

<i>Number of Cars</i>	<i>Frequency</i>
0	3
1	17
2	12
3	11
4	6
5	0
6	1

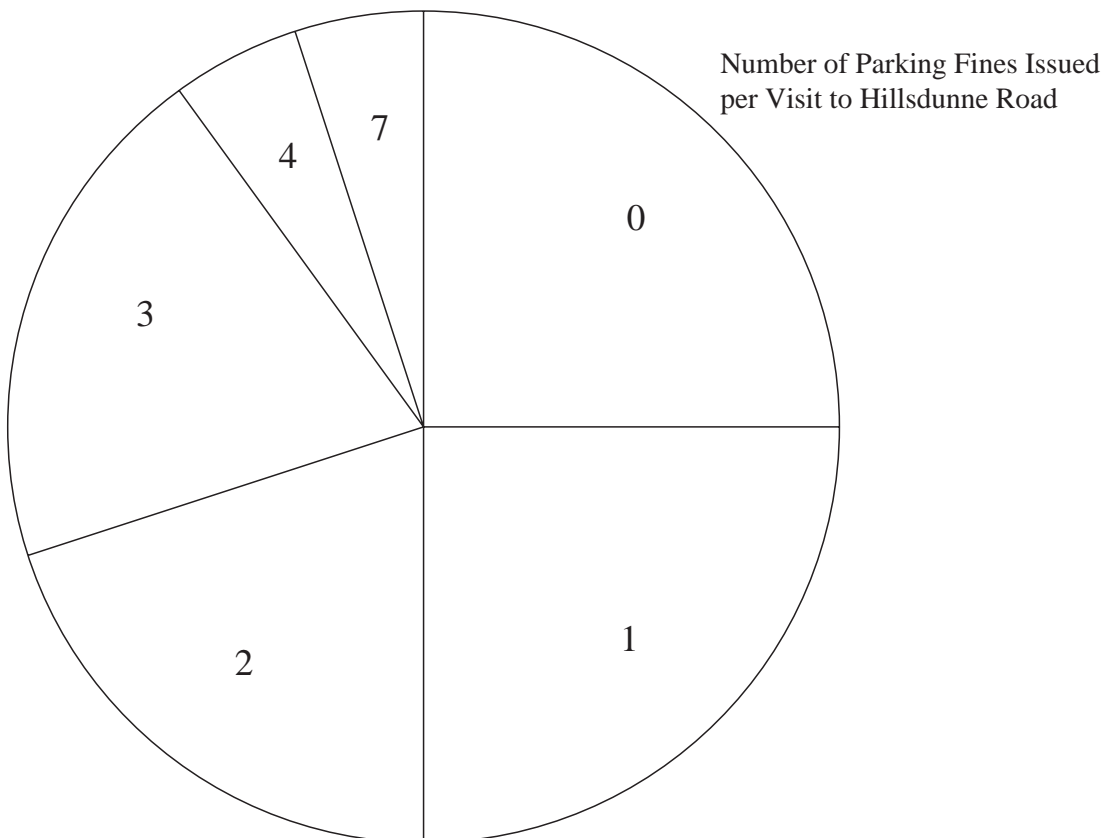
Extra Exercises 5.1 Answers

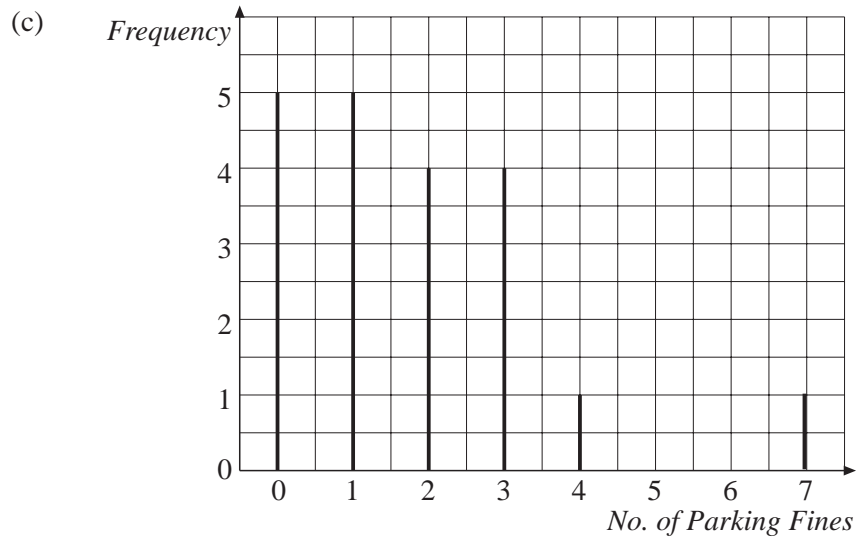
1. (a)

<i>Number of Parking Fines</i>	<i>Tally</i>	<i>Frequency</i>
0		5
1		5
2		4
3		4
4		1
5		0
6		0
7		1

(b)

<i>Number of Fines</i>	0	1	2	3	4	5	6	7
<i>Angle</i>	90 °	90 °	72 °	72 °	18 °	0 °	0 °	18 °



Extra Exercises 5.1 Answers

2. A. Smith $\frac{90}{360} \times 60 = 15$ people

B. Jones $\frac{60}{360} \times 60 = 10$ people

C. Brown $\frac{210}{360} \times 60 = 35$ people

Extra Exercises 5.2 Answers

1. (a) Mean = $\frac{30}{5} = 6$
Median = 5
Mode = 4
Range = $10 - 4 = 6$

(b) Mean = $\frac{78}{10} = 7.8$
Median = $\frac{7+8}{2} = 7.5$
Mode = 7
Range = $12 - 3 = 9$

(c) Mean = $\frac{69}{6} = 11.5$
Median = 12
Mode = 18
Range = 19

2. (a) Mean = 1.55
Median = 2
Mode = 2
Range = 4

(b) Mean = 2.08
Median = 2
Mode = 1
Range = 6