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:

Number of Parking Fines	Tally	Frequency
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?
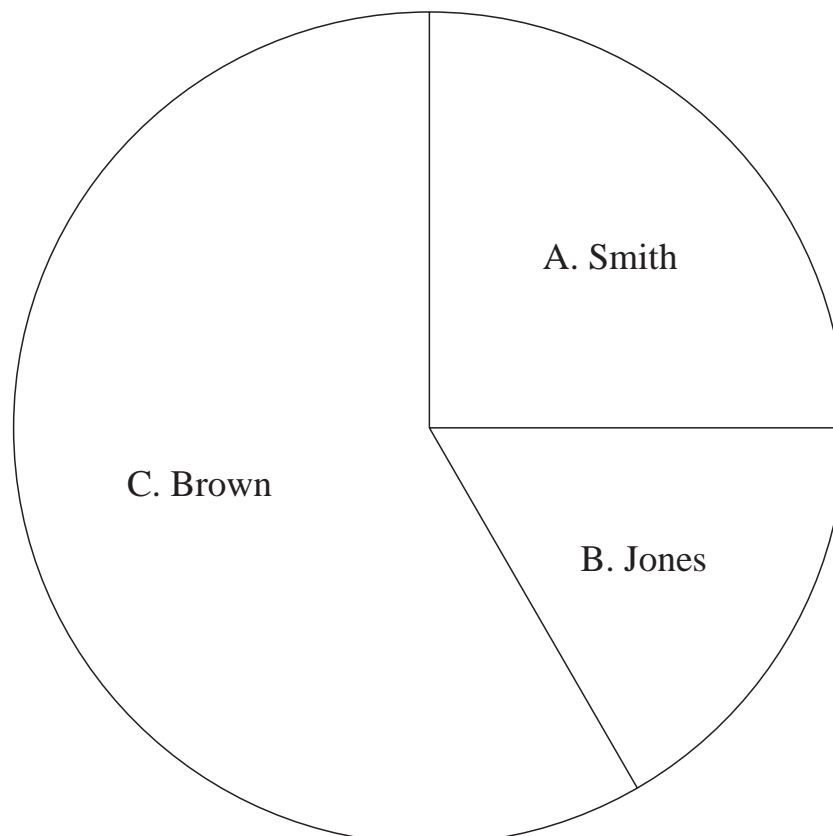
UNIT 5   *Data Analysis*   **Extra Exercises 5.2**

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)

Score	Frequency
0	6
1	2
2	8
3	3
4	1

(b)

Number of Cars	Frequency
0	3
1	17
2	12
3	11
4	6
5	0
6	1

Extra Exercises 5.1   Answers

1. (a)

Number of Parking Fines	Tally	Frequency
0	卌	5
1	卌	5
2	I I I I	4
3	I I I I	4
4	I	1
5		0
6		0
7	I	1

(b)

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

Number of Parking Fines Issued per Visit to Hillsdunne Road

Extra Exercises 5.1 Answers

(c)
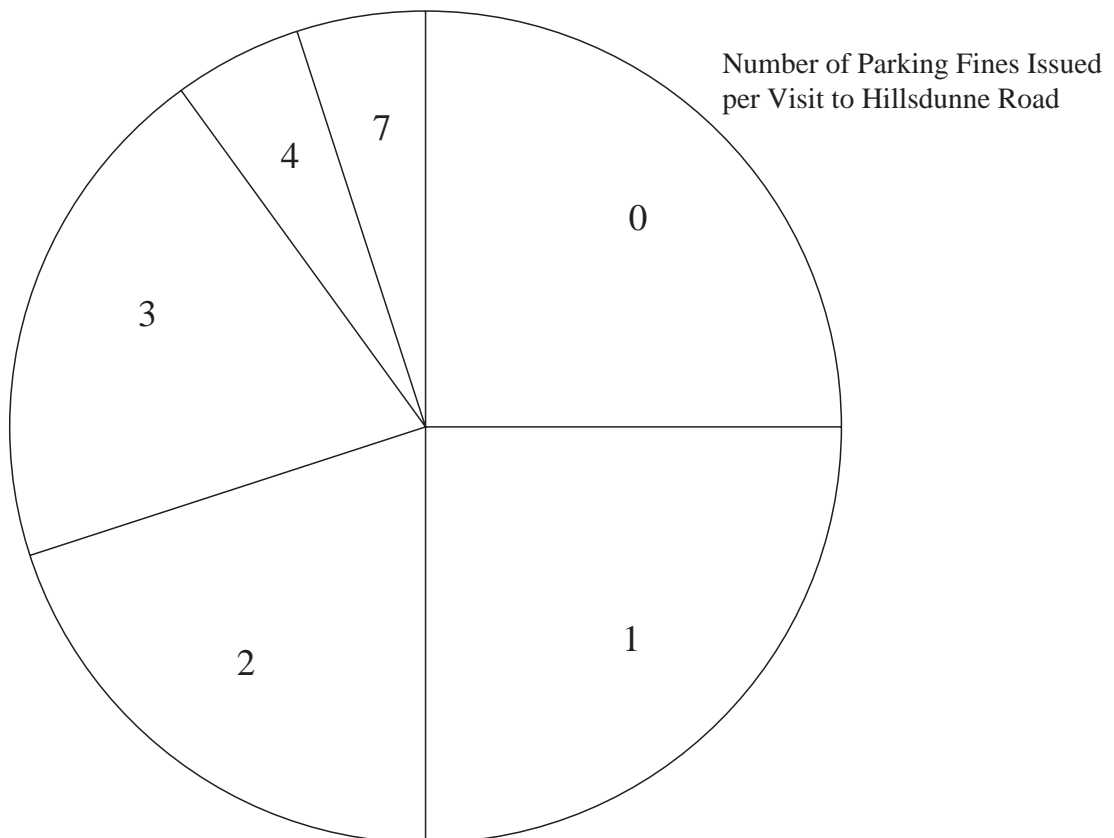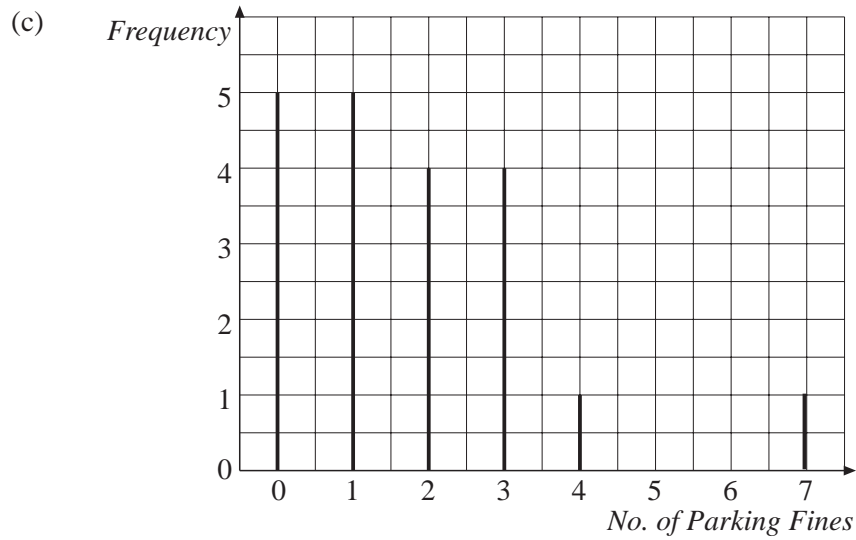
2.   A. Smith $\dfrac{90}{360} \times 60$ = 15 people

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

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

Extra Exercises 5.2 Answers

1. (a) Mean $= \dfrac{30}{5} = 6$

     Median $= 5$

     Mode $= 4$

     Range $= 10 - 4 = 6$

    (b) Mean $= \dfrac{78}{10} = 7.8$

     Median $= \dfrac{7 + 8}{2} = 7.5$

     Mode $= 7$

     Range $= 12 - 3 = 9$

    (c) Mean $= \dfrac{69}{6} = 11.5$

     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 $= 6$