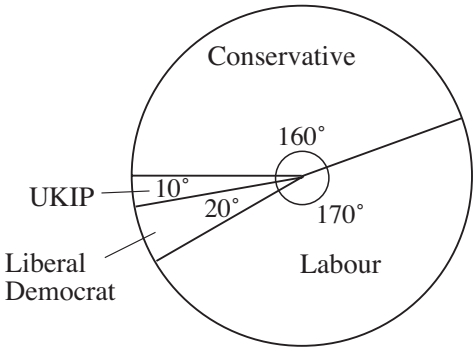
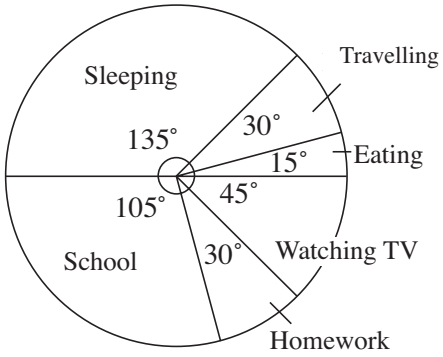
Text *E2 Data Presentation* Answers

E2.1 Pie Charts

1.



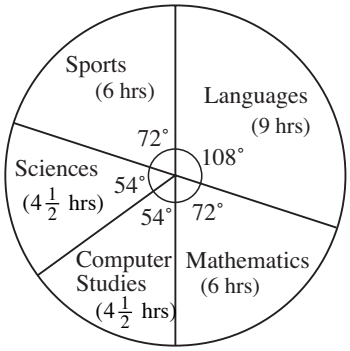
2.



3. (a) 20% × 30 hours = 6 hours

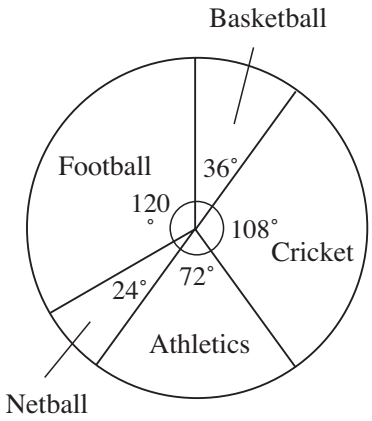
(b) (i) 72° (ii) 108°

(c)



(d) (i) $\frac{1}{5}$ (ii) $\frac{1}{2}$

4.



5. (a) 2 hours (b) 5 hours

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Text *E2 Data Presentation* Answers

E2.1

6. (a) £10 (b) £15 (c) £35

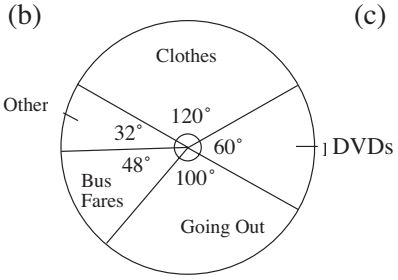
7. (a) 96° (b) 6 (c) 30 (d) 13

8. Airmail = 50, 1st class = 320, 2nd class = 350

9. (a)

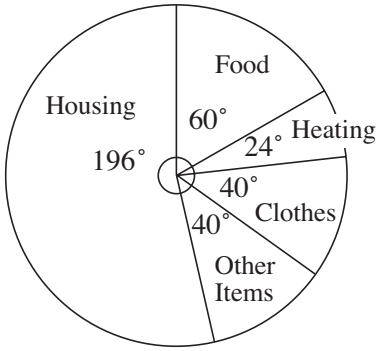
Items	Angle of Sector
Bus fares	48°
Going out	100°
Clothes	120°
DVDs	60°
Other	32°
Total of angles	360°

(b)



(c) $\frac{1}{3}$

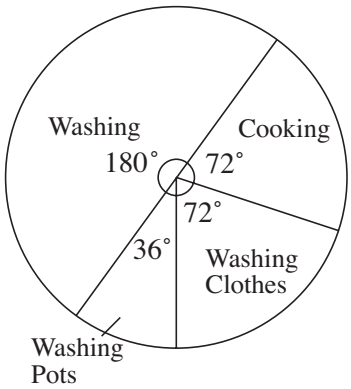
10. (a)



(b) Andrew spends more money on housing than the average person.

11. (a) (i) 81 litres (ii) $\frac{15}{100} = \frac{3}{20}$

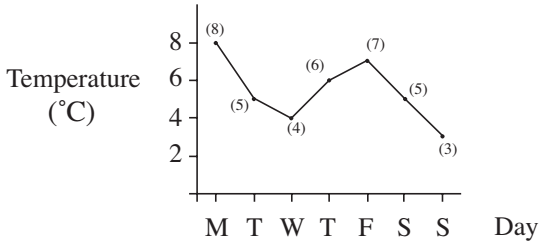
(b)



E2.2 Line Graphs

1. (a) 4 cm (b) April (c) February and December (d) July and August

2.

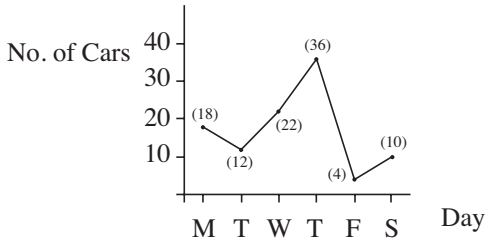


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Text *E2 Data Presentation* Answers

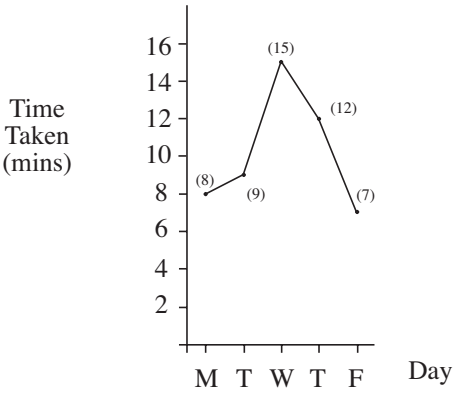
E2.2

3.



4. (a) 40°C (b) 80°C (c) 20 mins after filling the mug (d) 25 mins

5.



6. (a) 8 cm (b) 22 cm (c) 84 cm (d) 3 weeks

E2.3 Stem and Leaf Plots

1.

0	5 7 8
1	0 1 1 2 4 8
2	3

2. (a) Range 75 – 35 = 40 (b) Median 51 (c) Mode 48

3. (a)

1	8
2	2 3 5 9
3	0 5 6 6 6 6 9
4	1 2 3 4 4 7
5	0 4

(b) 18 seconds

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Text *E2 Data Presentation* Answers

E2.3

4. (a)

1	5 6 8
2	1 2 4 4 6 8 9
3	1 1 2 5 6 7 8
4	0 1 2 6 9
5	1 2 7

(b) (i) Range 57 – 15 = 42 (ii) Median 32

5.

1	5 7 8 8 8 9 9
2	0 1 1 1 1 2 3 3 3 4 4 5 6 7 7 8
3	1 2 3 4 5 5 6 7
4	0 3 5 5 8
5	1 7 8
6	1 2 3 5 5 9
7	1 3
8	2

6.

Volume 1				Volume 2			
			17	0	4	9	9
			18	2	3	5	
			19	0	5	5	
2	3	3	20	1	2		
		5	21	0			
		1	22				
		7	23				
0	6	9	24	0			
	3	4	25				
2	6	6	26	3			
		3	27				
	3	8	28				

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Text *E2 Data Presentation* Answers

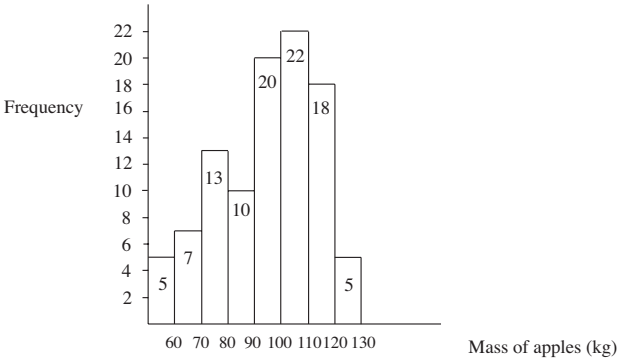
E2.3

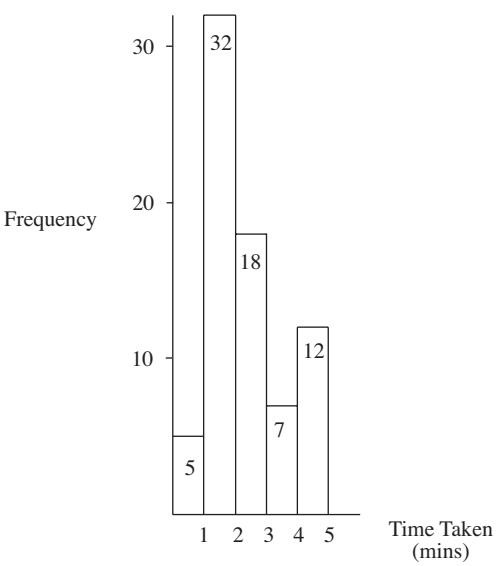
Data is more spread out for Volume 1 than for Volume 2; Volume 1 has higher average value.

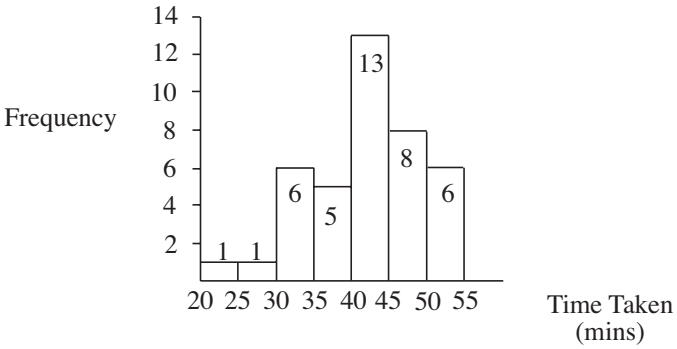
E2.4 Frequency Graphs: Histograms

1. (a) 5 (b) 55
   (c) 15 (d) 81 students in class

2. (a) 10 (b) 49
   (c) 73 (d) largest = £549.99 , smallest = £50.00

3. 

4. 

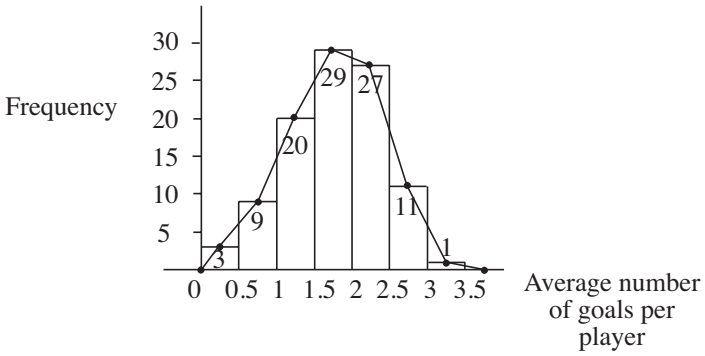
5. 

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Text *E2 Data Presentation* Answers

E2.4

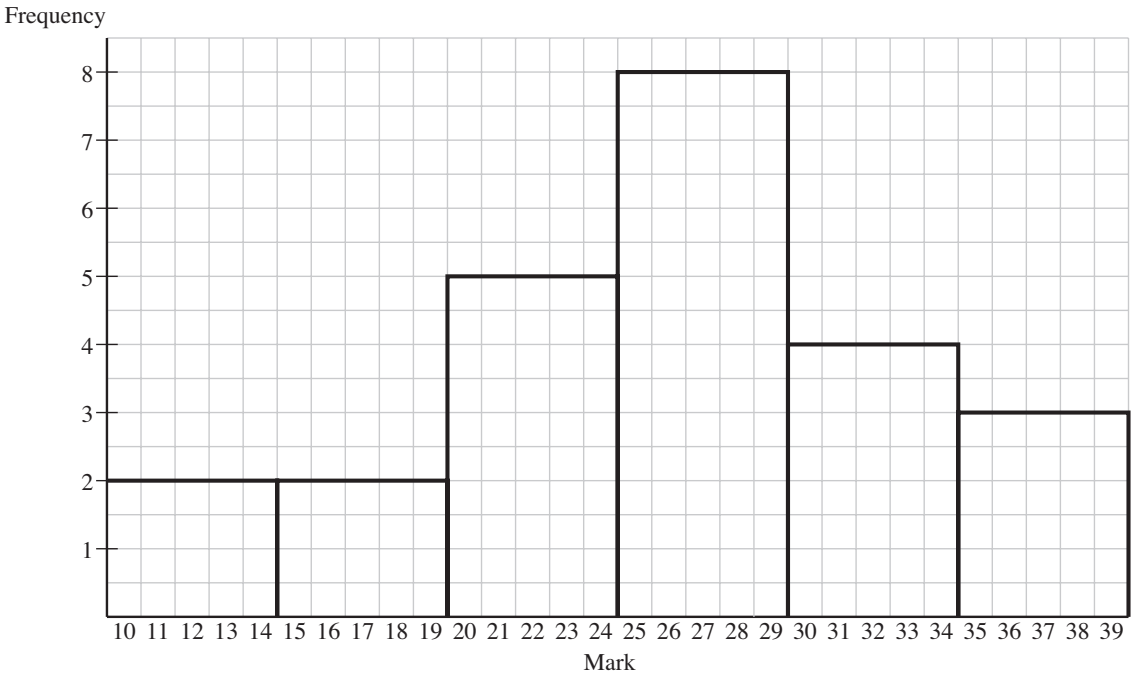
6.



7. (a)

Marks	Frequency
10 - 14	2
15 - 19	2
20 - 24	5
25 - 29	8
30 - 34	4
35 - 39	3

(b)



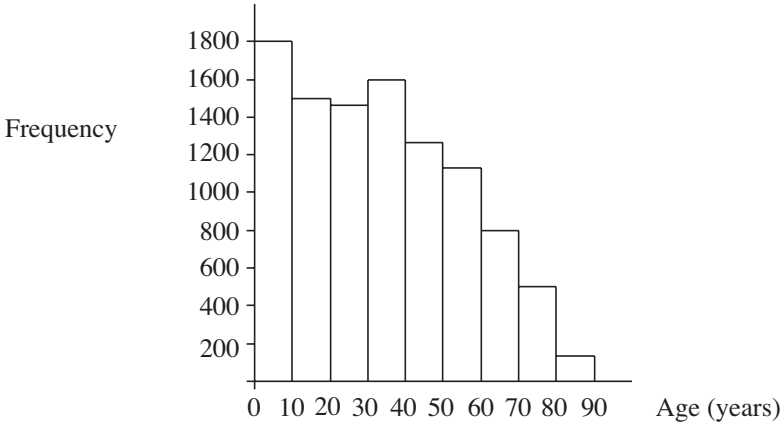
(c) $p = \dfrac{2 + 2 + 5}{24} = \dfrac{9}{24}$

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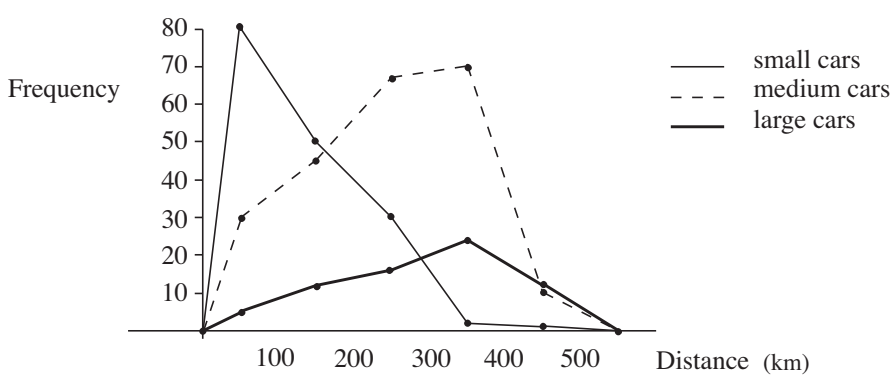
Text *E2 Data Presentation* Answers

E2.4

8.



9. (a)

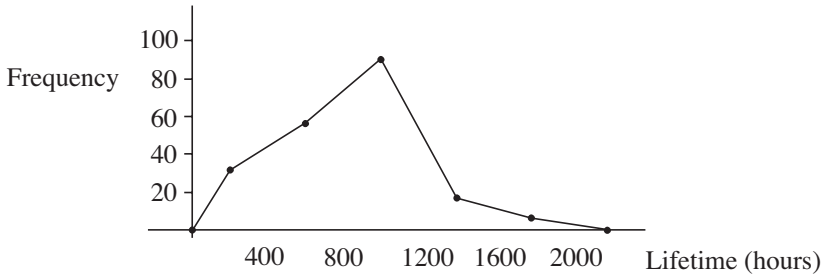


(b) There is a downward trend in the small cars, and an upward trend in the medium and large cars, i.e. People use small cars for short journeys and larger ones for long distances.

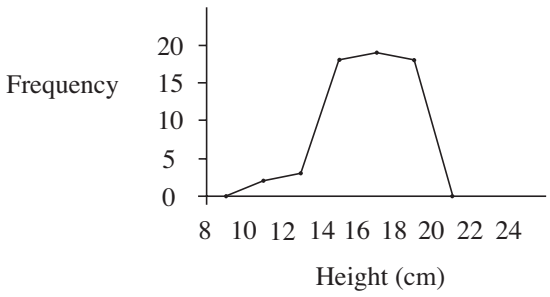
10. 62 + 70 = 132 students

11. (a) (i) probability $= \frac{32}{200} = 0.16$ (ii) probability $= \frac{106}{200} = 0.53$

(b)



12. (a)



(b) Type *B* has an even spread of plants between 10 and 22, whereas Type *A* has more taller plants.

The maximum number interval is 14 for Type *B* plants and 19 for Type *A* plants.

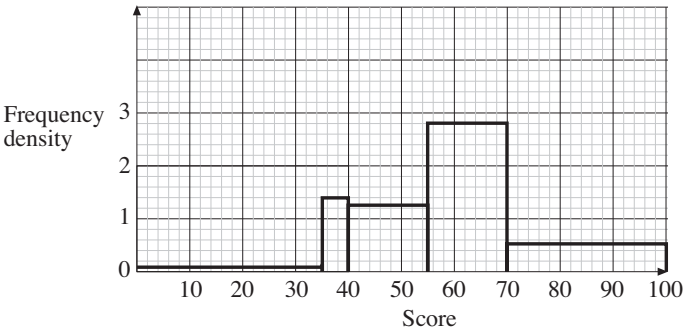
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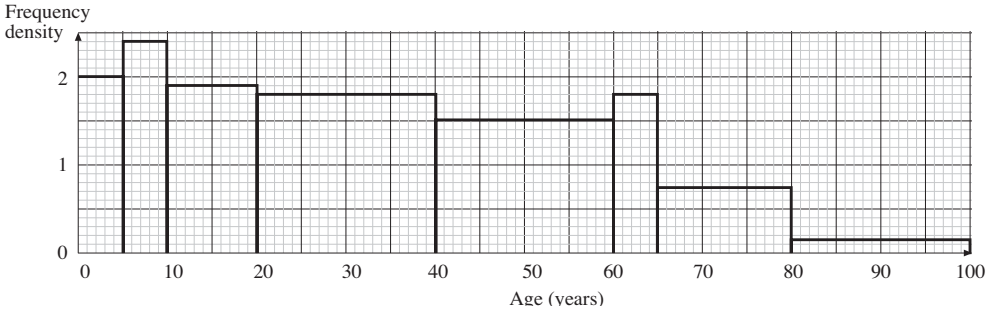
Text *E2 Data Presentation* Answers

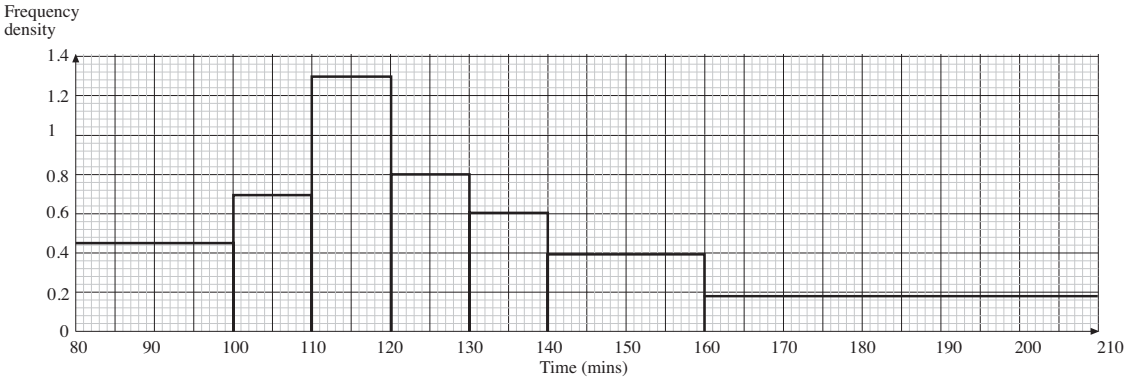
E2.5 Histograms with Unequal Class Intervals

1. (a) 9 (b) 4 (c) 23

2. The area for the 20 - 25 interval is $0.9 \times 5 = 4.5$. This should be a whole number.

3. 

4. (a) The width is 5 because age 0–4 is actually age 0 up to age 5, i.e. 5 years.
   (b) The widths are (from the 2nd interval) - 5, 10, 20, 20, 5, 15, 20.
   (c) 

5. 

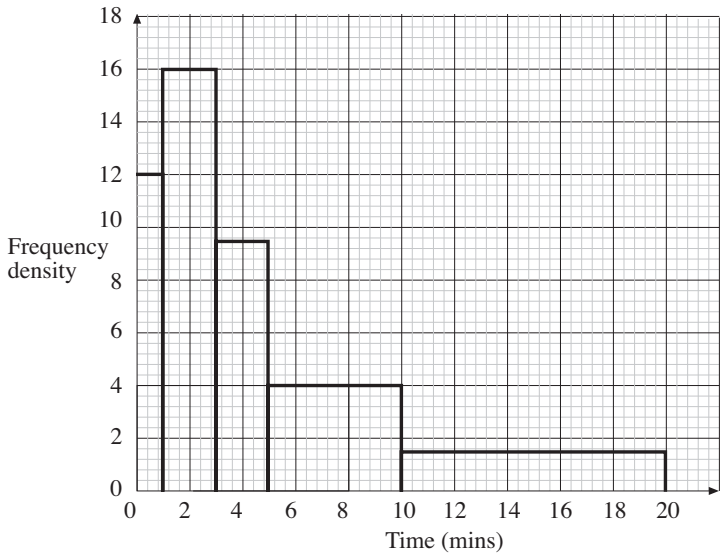
6. (a) 4 people
   (b) 23 people

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Text *E2 Data Presentation* Answers

E2.5

7.



8. (a) Frequencies: 4, 6, 7, 4, 6, 1. (b) 28 matches

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