

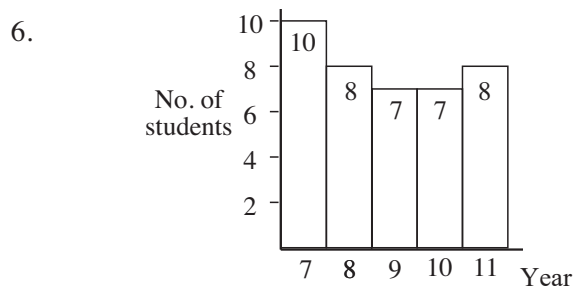
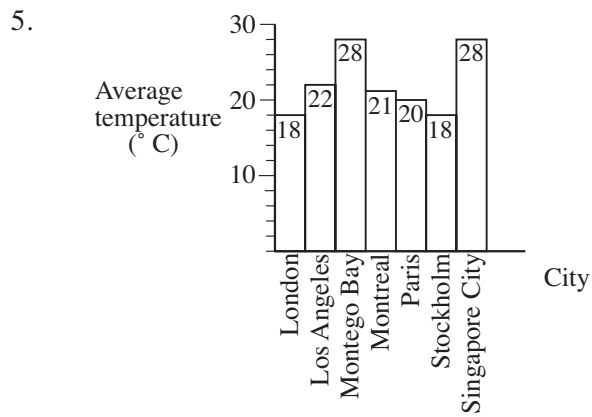
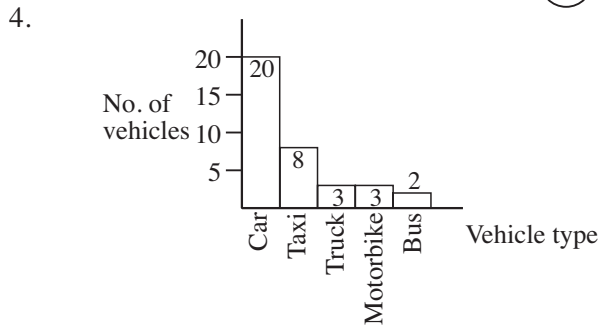
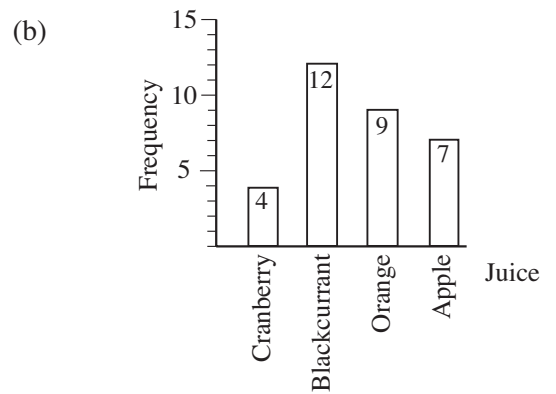
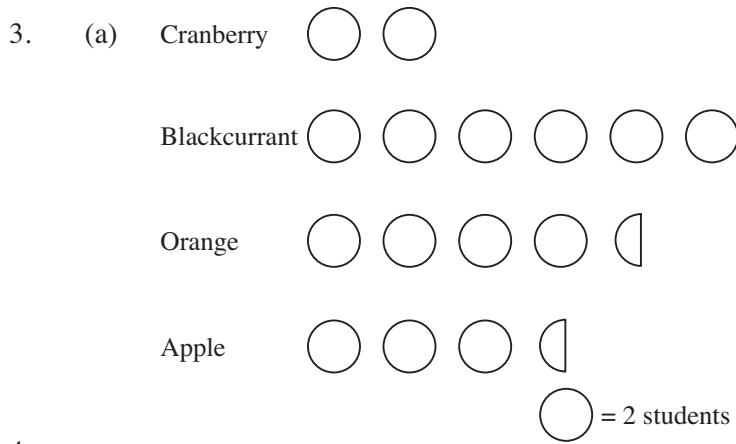
# Data Presentation

# Answers

## 1 Pictograms and Bar Charts

1. (a) 2009 (b) (i) 10 (ii) 7 (iii) 12 (c) 2018

2. (a) 400 (b) 250 (c) 700 (d)  $5\frac{1}{2}$  (e) 3300

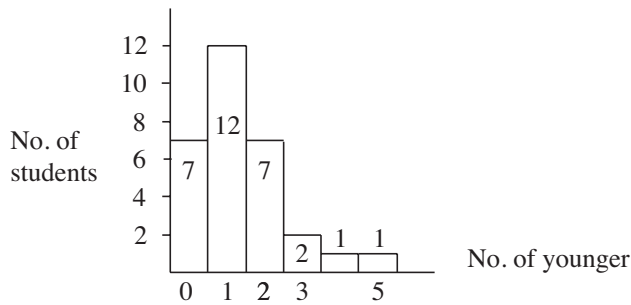


# Data Presentation

# Answers

1

7.



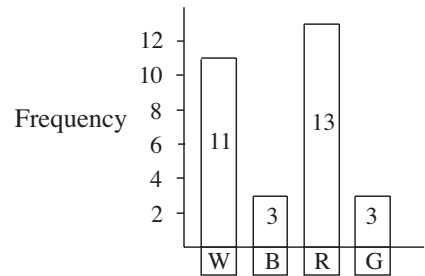
8. (a) 50 (b) 35

9. (a) 23 (b) We would expect there to be many more boys with shoe sizes around 8 and 9 than for 5 or 12, so the results are surprising.

10. (a)

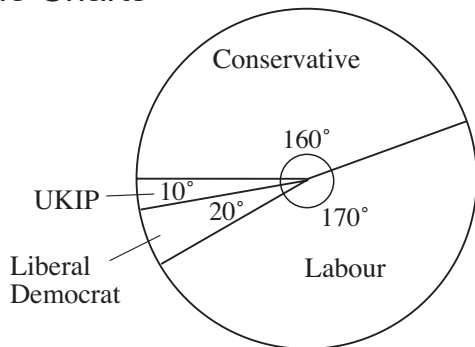
Colour	Tally	Frequency
White		11
Blue		3
Red		13
Green		3

(b)

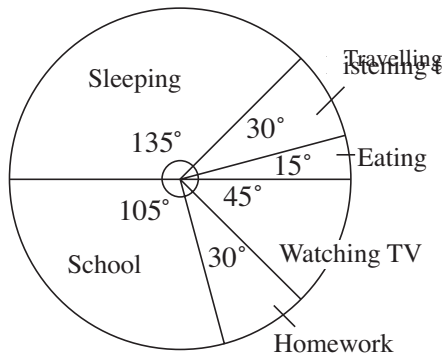


## 2 Pie Charts

1.



2.



Data Presentation

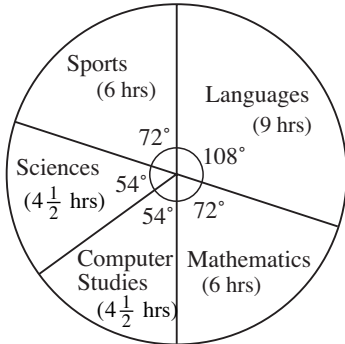
Answers

2

3. (a)  $20\% \times 30 \text{ hours} = 6 \text{ hours}$

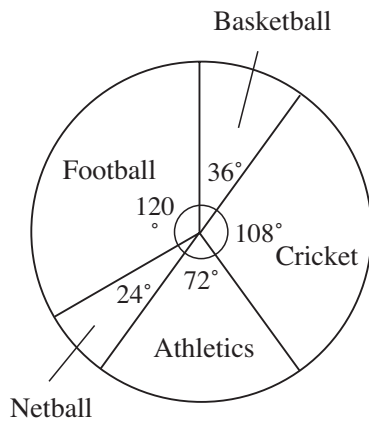
(b) (i)  $72^\circ$  (ii)  $108^\circ$

(c)



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

4.



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

6. (a) £10 (b) £15 (c) £35

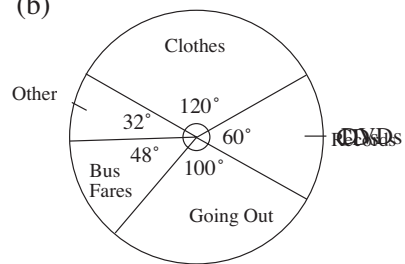
7. (a)  $96^\circ$  (b) 6 (c) 30 (d) 13

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

9. (a)

Items	Angle of Sector
Bus fares	$48^\circ$
Going out	$100^\circ$
Clothes	$120^\circ$
DVDs	$60^\circ$
Other	$32^\circ$
Total of angles	$360^\circ$

(b)



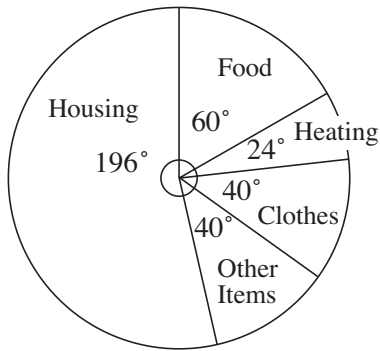
(c)  $\frac{1}{3}$

Data Presentation

Answers

2

10. (a)



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

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

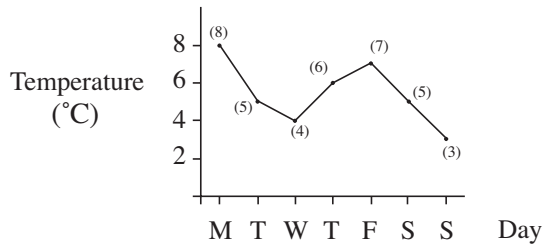
(b)



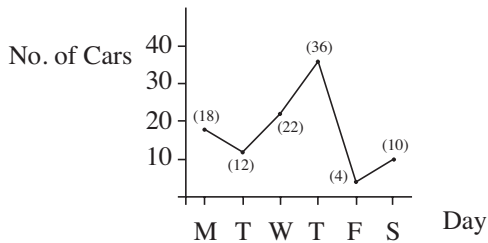
3 Line Graphs

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

2.



3.



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

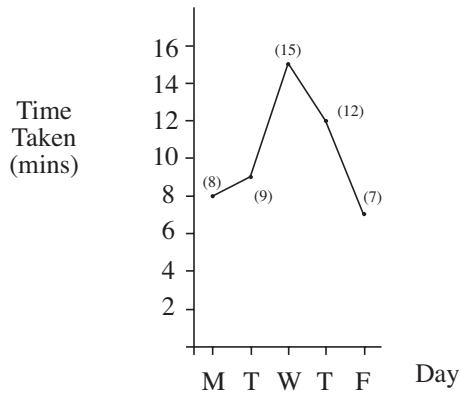
(d) 25 mins

# Data Presentation

# Answers

3

5.



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

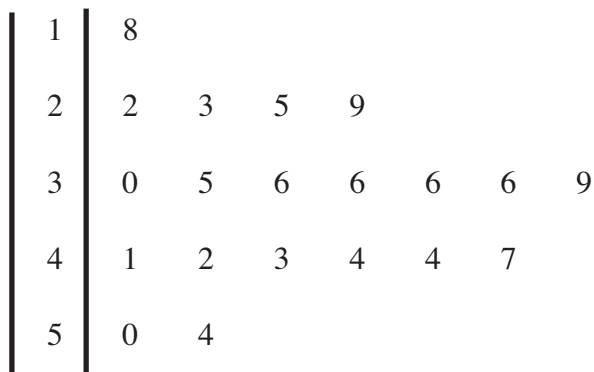
## 4 Stem and Leaf Plots

1.



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

3. (a)



- (b) 18 seconds

*Data Presentation*

4

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				

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

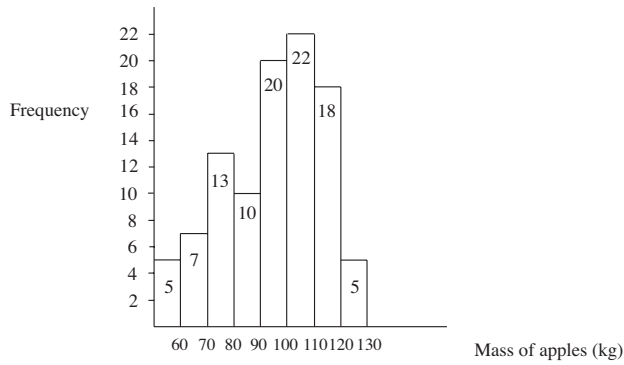
# Data Presentation

# Answers

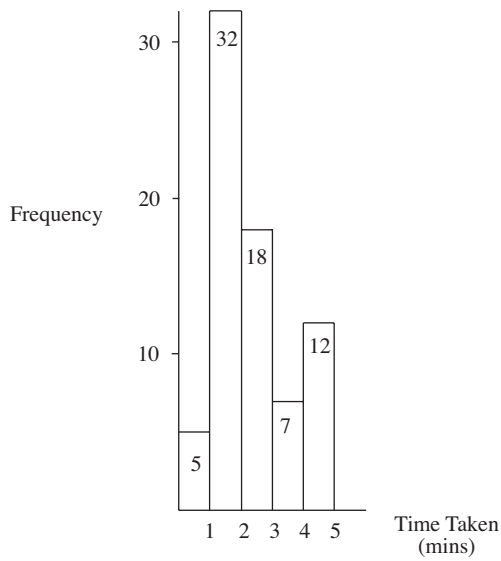
## 5 Frequency Graphs: Histograms

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

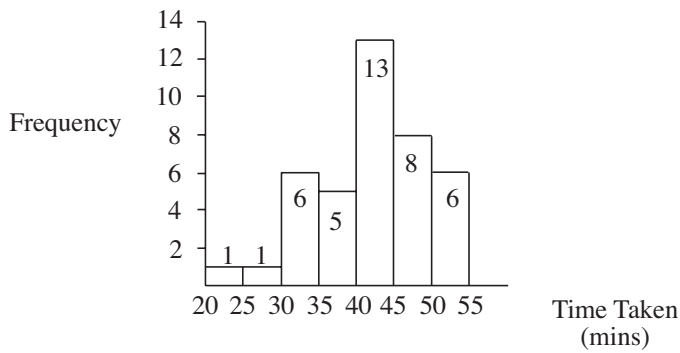
3.



4.



5.

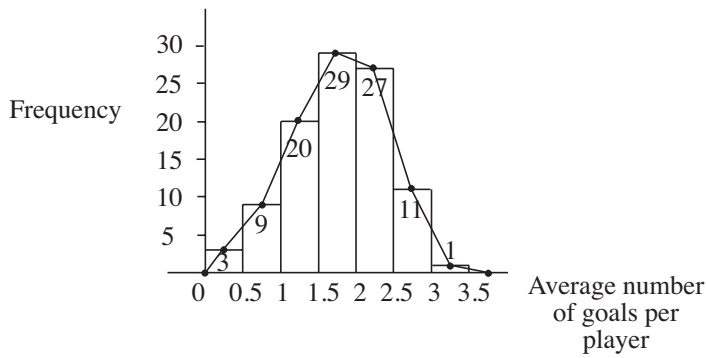


# Data Presentation

# Answers

5

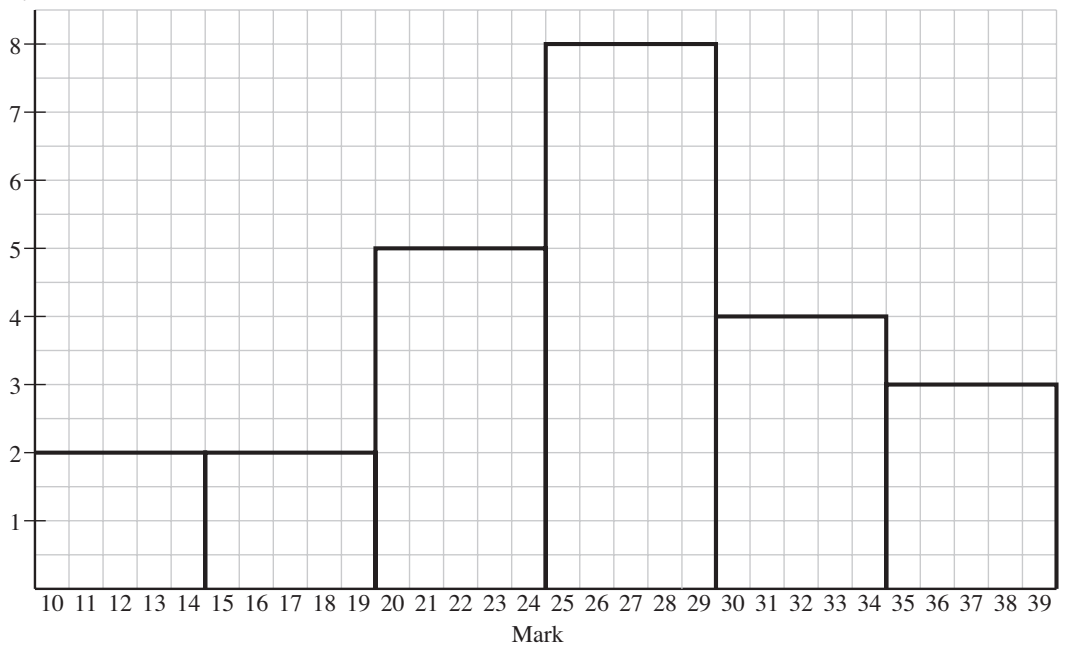
6.



7. (a)

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

(b) Frequency



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

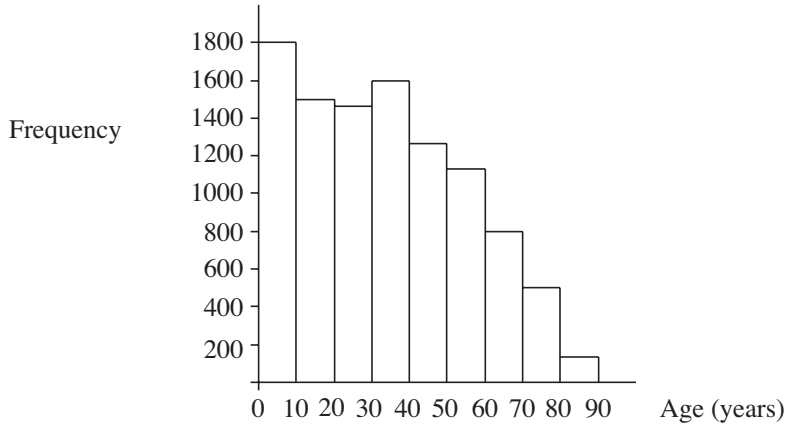


Data Presentation

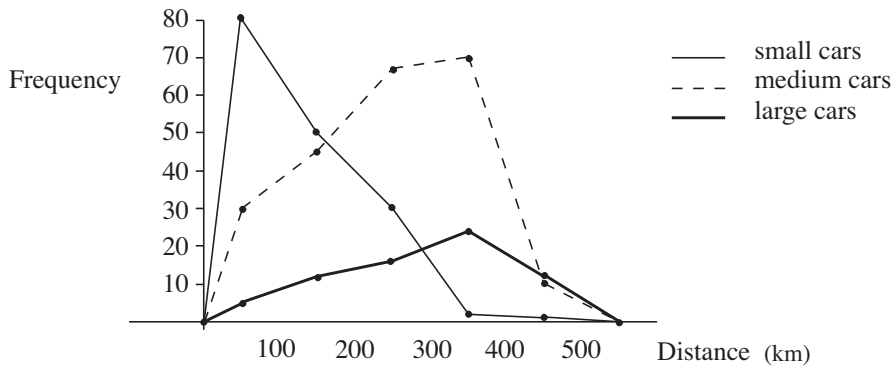
Answers

5

8.



9. (a)

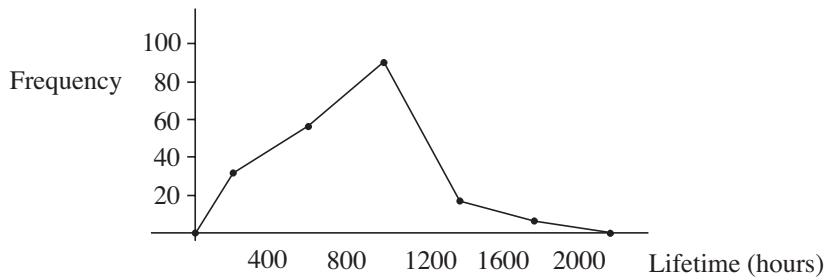


(b) There is a downward trend in the small cars, and an upward trend in the medium and large cars, i.e. People use small cars for short journeys and larger ones for long distances.

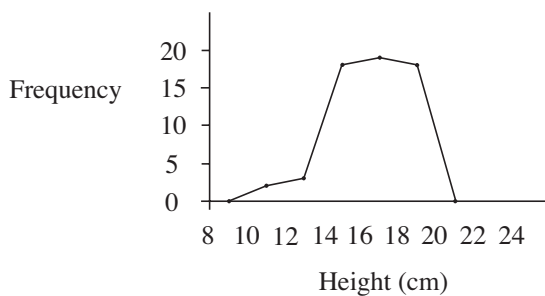
10.  $62 + 70 = 132$  students

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.